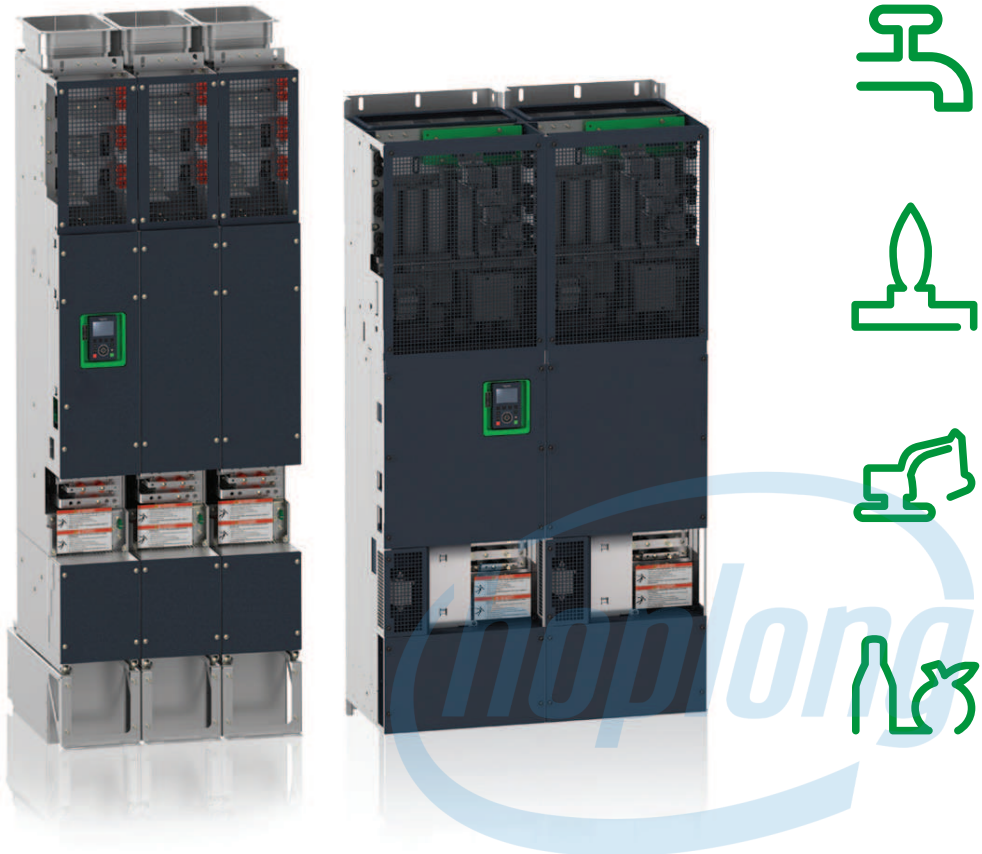
Catalog | August 2021



Variable speed drives

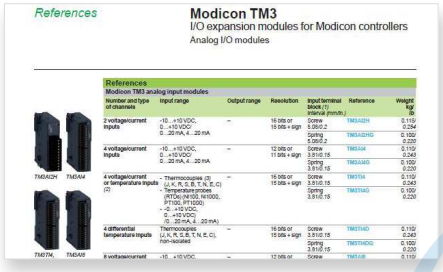
Altivar Process for Cabinet Integration

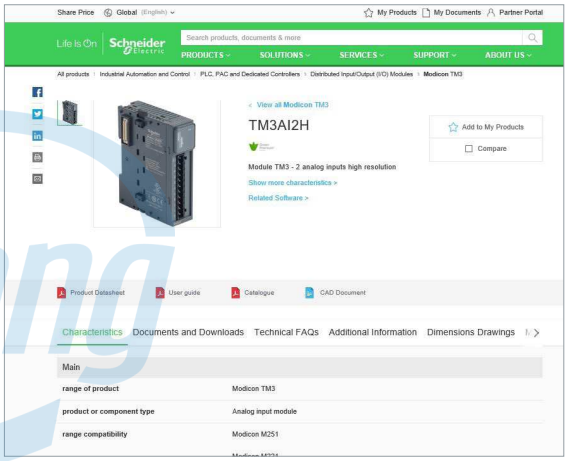
www.se.com

Life Is On Schneider Electric

Quick access to product information

Get technical information about your product

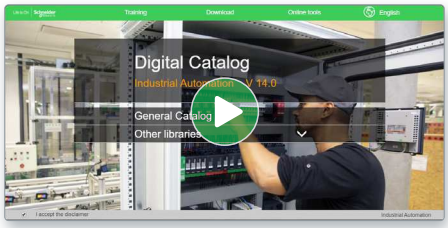




Each commercial reference presented in a catalog contains a hyperlink.
Click on it to obtain the technical information of the product:

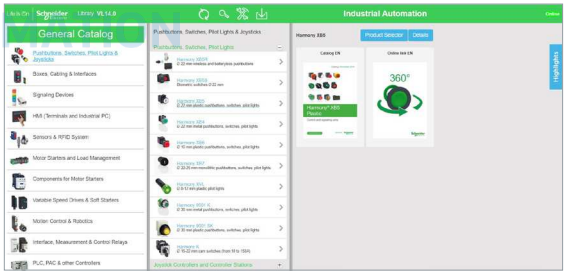
- Characteristics, Dimensions and drawings, Mounting and clearance, Connections and schemas, Performance curves
- Product image, Instruction sheet, User guide, Product certifications, End of life manual

Find your catalog



> With just 3 clicks, you can access the Industrial Automation and Control catalogs, in both English and French

> Consult digital automation catalogs at Digi-Cat Online

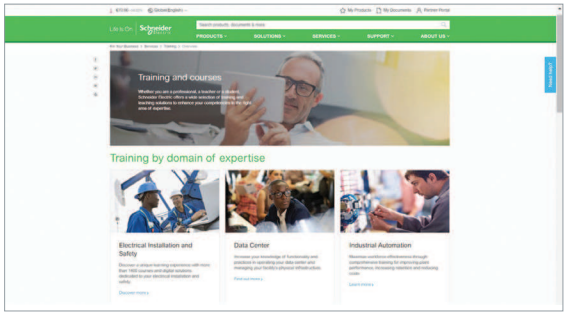


- Up-to-date catalogs
- Embedded product selectors,360° pictures
- Optimized search by commercial references

Select your training

> Find the right Training for your needs on our Global website

> Locate the training center with the selector tool, using this link



Altivar

Discover Altivar

Variable speed drives and soft starters

Altivar variable speed drives and soft starters deliver top performance in motor control applications across machines, processes, and buildings. With built-in intelligence, these smart connected devices gather and share data to improve operational efficiency, safety, and reliability.

Explore our offer

- Altivar Process
- Altivar Machine
- Altivar Building
- Altivar Soft Starters

Life Is On Schneider Electric

Green Premium™

Enhance sustainability with Altivar™ Process drives

Superior environmental performance thanks to upgradability and modernization solutions

Altivar Process is **RoHS** and **REACH** compliant
- Transparent environment information
- Life Cycle Analysis, compliant with ISO 14025
- Circularity Profile

Altivar Process drives offer key benefits to help you achieve superior sustainable performance by enhancing functionality, performance, and capacity of both hardware and software.

The additional hardware options and firmware upgradability capabilities of Altivar Process can help you to maximize process continuity and operation, as well as reduce your operational expenses, by avoiding the need to replace your drive or modify your existing installation as a retrofit.

Benefits

- Maximize process continuity and operation
- Reduce your OPEX
- Easy scalability of your automation system
- Future-ready solution for Industry 4.0
- Improve the power quality of your system with a low investment
- Improve the Safety Integrity Level (SIL), and/or Performance Level (PEL), integration, and performance of your application
- Optimize your maintenance costs and the drive's service life

...SUSTAINABILITY READY

Green Premium™ Sustainable performance, by design

Communication & Wi-Fi modules

The additional fieldbus modules allow you to easily integrate Altivar Process drives in your scalable automation system. Together with the Wi-Fi access point, they bring easy access to the real data provided by the drive, helping the digitalization and easy integration of the drive in Industry 4.0 technologies.

Passive filters*

The optional passive filter available with Altivar Process drives offers you the possibility to improve your installation's power quality by reducing the harmonics levels, even keeping your existing drives installed.

Additional I/O & safety modules*

The I/O module helps you to extend your application's performance and integration.

The Safety module optimizes the overall cost of the installation by avoiding the need for additional external devices, while conforming to international safety standards.

Firmware updates & Service expertise

Our global network of service experts offers you the possibility of upgrading your drive's firmware and modernizing its hardware to extend your drive's service life.

Experience the difference today at

se.com/green-premium

* For more information regarding the compatibility of these options, please visit us at se.com/drives

Contents

Variable speed drives
Altivar Process
Business optimization, process efficiency

Altivar Process
Provides the efficiency you deserve

Altivar Process is the new comprehensive range of variable speed drives from Schneider Electric, covering the majority of industrial applications with two series:

> ATV600: drives focused on fluid management and processing and energy saving

> ATV900: drives focused on maximum productivity with exceptional motor control and connectivity

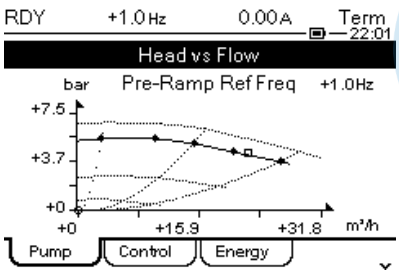
Depending on customer requirements, Altivar Process drives are available as wall-mounting, floor-standing, and optimized solutions for integration in cabinets.

Wall-mounting drives
from 0.75 kW up to 315 kW
(1...500 HP)

Enclosed drive solutions
from 0.75 kW up to 2600 kW
(1...2600 HP)

Drives for cabinet integration
from 0.75 kW up to 2600 kW
(1...2600 HP)

Altivar Process range



Pump monitoring display

Business optimization

Optimum monitoring of your process

> Instant response if pump efficiency drops thanks to embedded pump monitoring

> Notification of critical operating points without additional sensors

> Process integration with pressure, flow, and level control including compensation of flow losses

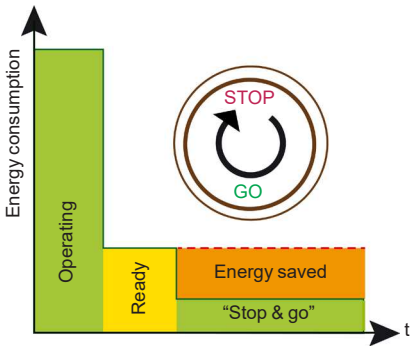
Energy-saving drive solution

> Up to 30% energy saving when on standby due to the innovative "Stop & go" operation without additional costs

> Smart control of the internal fans depending on operation

> Optimum energy efficiency over the whole lifecycle

> Data logging and graphic display of the power consumption



"Stop & go" function

Process efficiency

Motor performance and connectivity

> Excellent motor performance on any type of motor

> Ethernet dual port offers maximum services such as connection to the control room and process transparency

> Network service helps ensure operation continuity even in case of connection breakdown

> Web server and data logging help to reduce downtime through fast troubleshooting and preventive maintenance

Altivar Efficiency Calculator

This tool calculates the level of energy efficiency of your variable speed drive according to the Ecodesign standard EN/IEC 61800-9-2.

> **Drive efficiency (CDM Complete Drive Module)**
Drive performance is determined according to 8 operating points considering torque and speed

> **System efficiency (PDS Power Drive System)**
System performance is determined according to 8 operating points considering torque and speed. This includes the efficiency of the variable speed drive and its motor.

Calculate your level of energy efficiency with the Altivar Efficiency Calculator

+ Saving energy with variable speed drives

Variable speed drives
Altivar Process
Real-time intelligence, user-friendliness, green product

Achilles™ Level2 certified

ODVA organization: Supports network technologies based on EtherNet/IP

FDT Technology: A widely-accepted international standard in the automation industry

Real-time intelligence

Web server and services via Ethernet

> Embedded Web server interface based on the Ethernet network gives you process monitoring with your daily working tools.

> Local and remote access to energy use and customized dashboards means your energy is visible anywhere, any time, on PC, tablet, or smartphone.

User-friendliness

Simple integration in controller environments

> Easy integration thanks to standardized FDT/DTM and ODVA technology

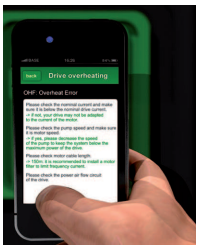
> Supported by predefined EcoStruxure Control Expert libraries

> Easy access via PC, tablet, or smartphone

> Robust connection via "cybersecure Ethernet"

EcoStruxure™ Innovation At Every Level for Industry

Scanning the QR code from a smartphone or tablet



Instant access to online help

Sophisticated service concept

> Modular design provides easy spare parts logistics

> Optimized maintenance costs due to dynamic maintenance schedule, with integrated monitoring of individual components

> Simple exchange of power modules and fans

> Quick assistance with dynamic QR codes and Customer Care app

Green product

Designed to have a smaller carbon footprint

> The Green Premium product label, Schneider Electric's eco-mark, indicates your compliance with international environmental standards such as:
- RoHS according to European Directive 2011/65 and the delegated Directive (EU) 2015/863
- REACH according to EU regulation 1907/2006
- IEC 62635: The end-of-life instructions comply with the latest recycling rules; up to 85% of the product components can be recycled

(1) The Schneider Electric industrial software business and AVEVA have merged to trade as AVEVA Group plc, a UK listed company. The Schneider Electric and Life is On trademarks are owned by Schneider Electric and are being licensed to AVEVA by Schneider Electric.

Variable speed drives
Altivar Process Modular
Modularity

Maintenance Excellence

Consolidating a powerful range

The Altivar Process Modular offer is designed for easy and cost-effective integration of power-intensive drives into cabinets. From just a few standard components it is possible to build a wide range of air- and liquid-cooled drives from 75 to 2600 kW (*125 to 2600 HP*) in different integration types.

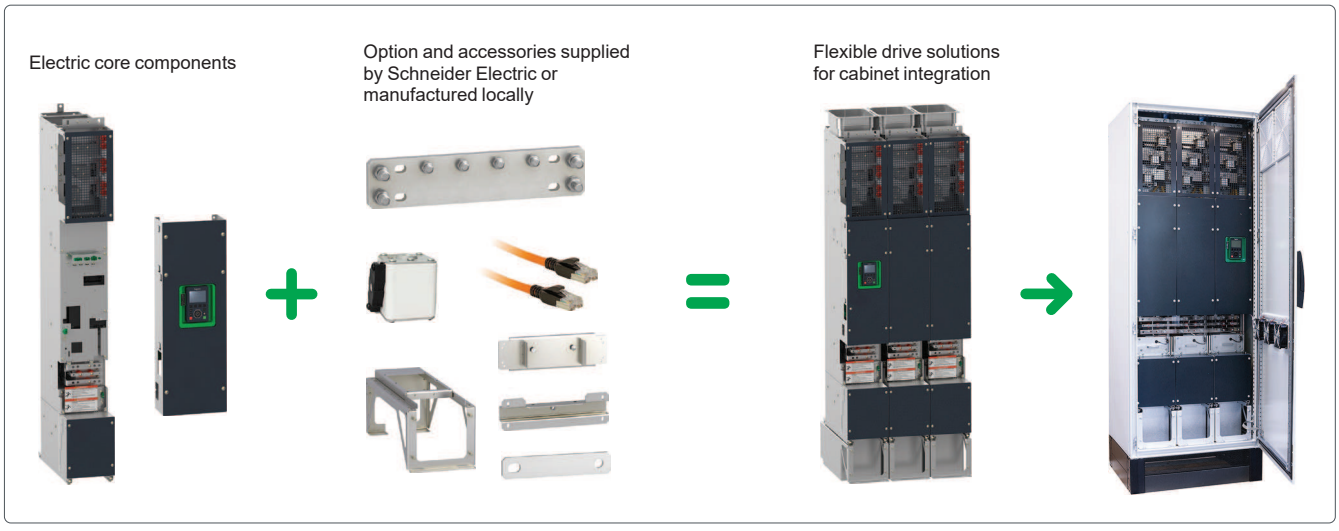
Customers using our Altivar Process Modular offer benefit from all the advanced features of service-oriented Altivar Process ATV600 and ATV900 drives developed for industrial applications such as water & wastewater, mining, minerals & metals, oil & gas, and consumer packaged goods (CPG).

> ATV600 drives focused on fluid management and processing and energy saving
> ATV900 drives focused on maximum productivity with exceptional motor control and connectivity

Modularity

Get more than just a drive with the Altivar Process Modular offer:

> Standardized and cost-efficient integration
> Flexibility in cabinet design such as protection rating and incoming supply equipment
> Prewired, tested electric core components
> Integrated category C3 EMC filter
> Reduced harmonics with integrated line choke for Standard drives and less than 3% THDi for Low Harmonic/Regen drives
> Integrated high-efficiency motor filter reducing the risk of motor winding insulation aging and motor damage even for longer motor cables
> Ready-to-connect line supply terminals on top and motor terminals at the bottom
> Reduced downtime of assets thanks to easily changeable electric core components such as power module with wheel (for Standard/Reduced Height drives) and power fan (for Low Harmonic/Regen, Standard, and Reduced Height drives) inside a drawer accessible from the front face



Standardized integrated cabinet design

Easy and standardized cabinet integration

Variable speed drives
Altivar Process Modular
Cabinet integration

Cost-saving solution due to standardization and local production

Fast construction of power connections and control cabling

Cabinet integration

Standardization of integration design for ATV600 and ATV900 solutions

> ATV600 and ATV900 drive solutions by simply changing the control unit
> Larger application scope with power rating through module paralleling up to 1800 kW/*2500 HP* at 400 V supply voltage and up to 2600 kW/*2600 HP* at 690 V supply voltage
> Reduced engineering workload thanks to standardization
> Optimized supply chain with standard sub-assembly and kits available ex stock

Local production

> Assembly of Modular drive architectures on sites of qualified partners belonging to Schneider Electric network
> Altivar Process Modular partners have access to dedicated selection tools, drawings, EPLAN macros, integration manuals, videos, and training material
> Options and accessories may be supplied by Schneider Electric or manufactured locally

Main benefits

> Cost-saving solution with reduced integration workload (lighter and less space-consuming) and simplified purchasing (optimized number of parts covering all architectures)
> Reduce lead time to end users thanks to standardized integration design and simple adaptation as per application requirement
> Enlarge your business scope thanks to simple maintenance of the Altivar Process Modular offer

Variable speed drives
Altivar Process Modular
Drives for cabinet integration

Market segments		■ Water & wastewater ■ Oil & gas ■ Mining, minerals & metals ■ Consumer packaged goods (CPG)			■ Water & wastewater ■ Oil & gas ■ Mining, minerals & metals
					
Mounting type		Cabinet integration			
Drive type		Drive products for cabinet integration	Modular Standard drives	Modular Low Harmonic/Regen drives	Modular Liquid-cooled drives
Degree of protection		IP20	IP00		
Power range for 50...60 Hz line supply	Three phase: 380…480 V (kW/*HP*)	0.75...90/*1...120*	–		–
	Three-phase: 400 V (kW)	–	110...800		110...1800
	Three-phase: 440 V (kW)	–	110...800		110...1800
	Three-phase: 480 V (*HP*)	–	*150...1100*		*150...2500*
	Three-phase: 500 (kW)	–	75...800		110...1900
	Three-phase: 600 (*HP*)	–	*125…1200*		*150...2600*
	Three-phase: 690 (kW)	–	110…1200		160...2600
Drive	Output frequency	0.1...500 Hz			
	Control type Asynchronous motor	Standard constant torque, variable standard torque, optimized torque mode			
	Synchronous motor	PM (permanent magnet) motor, synchronous reluctance motor			
Functions	Advanced functions	Including all the advanced features of ATV600 drives: ■ Accurate measurement for monitoring system energy consumption (deviation < 5%) ■ Installation energy drift detection ■ Embedded Ethernet with direct access to system configuration and monitoring ■ Integration of actual pump curves to optimize the system operating point ■ Optimized pump monitoring based on actual operating point ■ Sensorless estimated flow rate ■ Measurements expressed in working units (e.g. m^3/h, kWh/m^3) ■ Limitation of overvoltage at the motor terminals ■ Contextual access to technical documentation through dynamic QR code ■ Continuous and historical real-time measurements with customizable dashboards ■ Predictive and preventive maintenance tracking functions (e.g. temperatures with PT100/1000 probe, fan monitoring) ■ Easy setting of drive identification for Altivar Process Modular drives			
	Integrated safety function	1: STO (Safe Torque Off) SIL3			
	Number of preset speeds	16			
Number of integrated I/O	Analog inputs	3: Configurable as voltage (0...10 V) or current (0-20 mA/4-20 mA), 2 of them including probes (PTC, PT100, PT1000, or KTY84)			
	Digital inputs	6: Voltage 24 V ⎓ (positive or negative logic)			
	Digital output	–			
	Analog outputs	2: Configurable as voltage (0...10 V) or current (0-20 mA)			
	Relay outputs	3: 1 with NO/NC contacts and 2 with NO contacts			
	Safety function inputs	2: For safety function STO			
Extended I/O module (optional)	Analog inputs	2 differential analog inputs configurable via software as voltage (0...±10 V) or current (0-20 mA/4-20 mA), or for PTC, PT100, or PT1000 2- or 3-wire probes			
	Digital inputs	6: Voltage 24 V ⎓ (positive or negative logic)			
	Digital outputs	2: Assignable			
Extended relay module (optional)	Relay outputs	3: NO contacts			
Communication	Integrated	Modbus/TCP, Modbus serial link			
	Option modules	Ethernet/IP, Modbus TCP and MD-Link dual port, CANopen daisy chain, SUB-D, and screw terminal block, PROFINET, PROFIBUS DP V1, DeviceNet, BACnet MS/TP, POWERLINK			
Configuration and runtime tools		Graphic display terminal, embedded Web server, DTM (Device Type Manager), SoMove software			
Standards and certifications		86/188/EEC, IEC 61000-4-2, IEC 61000-4-3, IEC 61000-4-4, IEC 61000-4-5, IEC 61000-4-6, EN/IEC 61800-3, EN/IEC 61800-5-1, IEC 61000-3-12, IEC 60721-3, IEC 61508, IEC 13849-1, TÜV certification, CE marking, ATEX 2/22, ATEX 1/21	86/188/EEC, IEC 61000-4-2, IEC 61000-4-3, IEC 61000-4-4, IEC 61000-4-5, IEC 61000-4-6, EN/IEC 61800-3, EN/IEC 61800-5-1, IEC 61000-3-12, IEC 60721-3, IEC 13849-1, TÜV certification, CE marking, cULus, IEC 61508, Marine certification (DNV-GL, ABS, RINA, BV, LR) *(1)*, ATEX 2/22, ATEX 1/21,		86/188/EEC, IEC 61000-4-2, IEC 61000-4-3, IEC 61000-4-4, IEC 61000-4-5, IEC 61000-4-6, EN/IEC 61800-3, EN/IEC 61800-5-1, IEC 61000-3-12, IEC 60721-3, IEC 13849-1, TÜV certification, CE marking, cULus, IEC 61508, ATEX 2/22, ATEX 1/21
References		**ATV630●●●N4Z**	**ATV6A0●●●●●**	**ATV6B0●●●●●**	**ATV6L0●●●●●**
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(1) For marine product certificate, please contact your Schneider Electric representative.

Variable speed drives

Altivar Process Modular
Drives for cabinet integration

Market segments		■ **Oil & gas** ■ **Mining, minerals & metals** ■ **Consumer packaged goods (CPG)** ■ **Water & wastewater**			■ **Water & wastewater** ■ **Oil & gas** ■ **Mining, minerals & metals**
					
Mounting type		Cabinet integration			
Drive type		Drive products for cabinet integration	Modular Standard drives	Modular Low Harmonic/Regen drives	Modular Liquid-cooled drives
Degree of protection		IP20	IP00		
Power range for 50...60 Hz line supply	Three-phase: 380…480 V (kW/*HP*)	0.75...90/*1...120*	–		–
	Three-phase: 400 V (kW)	–	110...800		110...1800
	Three-phase: 440 V (kW)	–	110...800		110...1800
	Three-phase: 480 V (*HP*)	–	*150...1100*		*150...2500*
	Three-phase: 500 (kW)	–	75...800		110...1900
	Three-phase: 600 (*HP*)	–	*125…1200*		*150...2600*
	Three-phase: 690 (kW)	–	110…1200		160...2600
Drive	Output frequency	0.1...599 Hz			
	Control type Asynchronous motor	Standard constant torque, variable standard torque, optimized torque mode			
	Synchronous motor	PM (permanent magnet) motor, synchronous reluctance motor			
Functions	Advanced functions	Including all the advanced features of ATV900 drives: ■ High-performance motor control with an overload torque up to 180% Tn in an open or closed loop ■ Asynchronous, synchronous, special motors: all efficiency classes, brand independent, permanent magnet motors, torque motors, conical sliding rotor, reluctance motor ■ Integrated EtherNet/IP and Modbus TCP dual port, cybersecurity (Achilles Level 2) ■ Smart integration in PlantStruxure and Foxboro Evo process automation systems ■ Optimized energy efficiency, detection of energy consumption drift of the installation ■ Adaptation to the process by dedicated functions with modular design ■ Embedded safety functions STO SIL3 ■ Master/slave and load sharing with drive-to-drive capability: □ torque sharing on rigid coupling □ torque sharing on elastic coupling ■ Contextual access to technical documentation through dynamic QR code ■ Continuous and historical real-time measurements with customizable dashboards ■ Predictive maintenance (e.g. temperatures with PT100/1000 probe, fan monitoring, etc.) ■ Easy setting of drive identification			
	Integrated safety function	1: STO (Safe Torque Off) SIL3			
	Number of preset speeds	16			
Number of integrated I/O	Analog inputs	3: 2 configurable as voltage (0...10 V) or current (0-20 mA/4-20 mA), including probes (PTC, PT100, PT1000, or KTY84), and 1 configurable as voltage (0...±10 V)			
	Digital inputs	8: Voltage 24 V ⎓ (positive or negative logic)			
	Digital output	1: Assignable, can be used as PTO (pulse train output)			
	Analog outputs	2: Configurable as voltage (0...10 V) or current (0-20 mA)			
	Relay outputs	3: 1 with NO/NC contacts and 2 with NO contacts			
	Safety function inputs	2: For safety function STO			
Extended I/O module (optional)	Analog inputs	2 differential analog inputs configurable via software current (0-20 mA/4-20 mA), or for PTC, PT100, or PT1000 2- or 3-wire probes			
	Digital inputs	6: Voltage 24 V ⎓ (positive or negative logic)			
	Digital outputs	2: Assignable			
Extended relay module (optional)	Relay outputs	3: NO contacts			
Communication	Integrated	EtherNet/IP, Modbus/TCP Dual port, Modbus serial link			
	Option modules	CANopen daisy chain, SUB-D, and screw terminal block, PROFINET, PROFIBUS DP V1, DeviceNet, EtherCAT, POWERLINK			
Configuration and runtime tools		Graphic display terminal, embedded Web server, DTM (Device Type Manager), SoMove software			
Standards and certifications		86/188/EEC, IEC 61000-4-2, IEC 61000-4-3, IEC 61000-4-4, IEC 61000-4-5, IEC 61000-4-6, EN/IEC 61800-3, EN/IEC 61800-5-1, IEC 61000-3-12, IEC 60721-3, IEC 61508, IEC 13849-1, TÜV certification, CE marking, ATEX 2/22, ATEX 1/21	86/188/EEC, IEC 61000-4-2, IEC 61000-4-3, IEC 61000-4-4, IEC 61000-4-5, IEC 61000-4-6, EN/IEC 61800-3, EN/IEC 61800-5-1, IEC 61000-3-12, IEC 60721-3, IEC 61508, Marine certification (DNV-GL, ABS, RINA, BV, LR) *(1)*, IEC 13849-1, TÜV certification, CE marking, cULus, ATEX 2/22, ATEX 1/21		86/188/EEC, IEC 61000-4-2, IEC 61000-4-3, IEC 61000-4-4, IEC 61000-4-5, IEC 61000-4-6, EN/IEC 61800-3, EN/IEC 61800-5-1, IEC 61000-3-12, IEC 60721-3, IEC 13849-1, TÜV certification, CE marking, cULus, IEC 61508, ATEX 2/22, ATEX 1/21
References		**ATV930●●●N4Z**	**ATV9A0●●●●●**	**ATV9B0●●●●●**	**ATV9L0●●●●●**
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(1) For marine product certificate, please contact your Schneider Electric representative.

More technical information on www.se.com

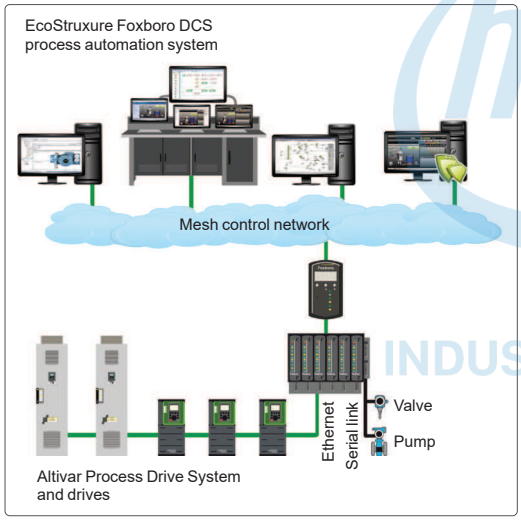
Variable speed drives
Altivar Process Modular

Altivar Process Modular range

Process

Altivar Process drives are specifically designed to meet the requirements of the following market segments:

- Water & wastewater
- Oil & gas
- Mining, minerals & metals
- Consumer packaged goods (CPG)



Altivar Process in EcoStruxure Foxboro DCS architecture

EcoStruxure Plant™ integration

The association of Altivar Process services with Schneider Electric process automation control systems like EcoStruxure Foxboro DCS (for process systems) or EcoStruxure Hybrid DCS (for hybrid systems) offers a high-performance, global automation and motor control solution with optimized total cost of ownership (TCO).

The solution provides operational integrity for people, processes, and assets, with improved maintenance support to help reduce downtime and ensure operation continuity.

It offers operational insight by accessing more information to optimize the process and control energy efficiency.

Based on market standards (FDT/DTM, Ethernet, etc.), it is a sustainable, scalable solution that enables processes to be adapted easily and affordably.

Water & wastewater applications

- Pumping
- Drilling
- Suction
- Dosing
- Odor control
- Ventilation
- Gas compression
- Treatment plant
- Wastewater treatment
- Sludge removal

Use

- Pumping station and storage tank
- Irrigation
- Treatment plant
- Desalination plant
- Storage and booster station
- Housing
- Wastewater lift station
- Wastewater treatment
- Discharge back into the environment, land application
- Decanter

Variable speed drives: page 30
Configuration and runtime tools: page 28
Combinations: page 80
Dimensions: page 20

Variable speed drives
Altivar Process Modular

Process (continued)

Oil & gas applications

- ■ Hydrocarbon production:
  - □ Drilling
  - □ Offshore and onshore extraction
  - □ Water treatment and re-injection
  - □ Crude oil storage
  - □ Separation
  - □ Pipeline pumping
  - □ Storage
  - □ Refining
  - □ DOF (digital oil field)

Use

- ■ Pumps:
  - □ Submersible
  - □ Hydraulic
  - □ Pipeline
  - □ Reverse flow
  - □ Water injection
  - □ Kerosene
- ■ PCP (progressive cavity pump)
- ■ ESP (electrical submersible pump)
- ■ Rod pump
- ■ Mud pump
- ■ Rotary table, top drive
- ■ Draw works
- ■ Regasification compressors
- ■ Refining:
  - □ Fans
  - □ Compressors

Mining, minerals & metals applications

- ■ Flotation and thickening
- ■ Rinsing and filtration
- ■ Mine shaft pumping
- ■ Preheater fan
- ■ Waste gas evacuation
- ■ Cooling fan
- ■ Separator for vertical roller mill
- ■ Storage and loading
- ■ Water supply
- ■ Pumping
- ■ Drying fans
- ■ Open-pit or underground mining
- ■ Stockpiling/homogenization
- ■ Concentration/mineral separation
- ■ Solid-liquid separation
- ■ Final handling/transport
- ■ Clinker production
- ■ Cement production

Use

- ■ Conveyors
- ■ Grinders
- ■ Mixers
- ■ Pumps
- ■ Tunnel boring machines
- ■ Long-distance heavy conveying
- ■ Bucket wheel excavator
- ■ Special cranes:
  - □ Gantry cranes
  - □ Grab cranes
- ■ Grinding mills (ball mills, SAG and AG mills)
- ■ Spiral and magnetic separators
- ■ Reclaimers and stackers
- ■ Ship loaders
- ■ Mobile mining machines
- ■ Vibro feeders
- ■ Crushers
- ■ Long belt conveyors
- ■ Kiln main drives
- ■ Separators for VRM (vertical roller mills)

Variable speed drives: page 30
Configuration and runtime tools: page 28
Combinations: page 80
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Variable speed drives
Altivar Process Modular

Process (continued)

Consumer packaged goods (CPG) applications

- Pumping
- Drying fans
- Dairy beverage
- Agribusiness

Use

- Conveyors
- Mixers
- Centrifuges
- Pumps
- Extruders
- Shredders
- Centrifuges
- Hot rotary dryers

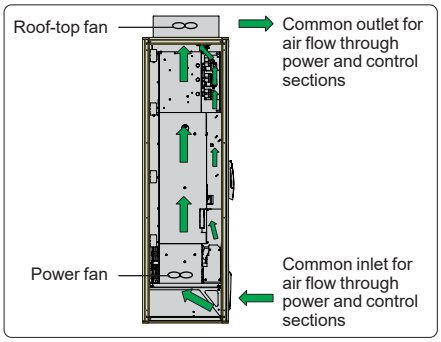
Modular drive architecture with 2 power modules from 200 kW to 315 kW on 400 V supply

General presentation of the offer

Altivar Process drives can help improve equipment performance and reduce operating costs by optimizing energy consumption and user comfort.
Altivar Process drives provide a wide range of integrated functions, such as:

- Safety and automation functions that meet the requirements of some of the most demanding applications
- Various optional communication modules available for seamless integration into the main automation architectures
- Numerous configurable I/O as standard to facilitate adaptation to specific applications
- Intuitive commissioning using the graphic display terminal and SoMove commissioning software
- Local and remote access and monitoring using the embedded Web server
- Energy savings and protection of the grid by means of integrated harmonic filters
- Installation EMC conformity by means of integrated EMC filters

Altivar Process Modular drives are designed for IT systems.



IP21/UL Type1 integration with a common cooling air flow

Modular drive

Altivar Process Modular is ready to build into cabinets to create high-power drive solutions with minimum dimensions that withstand harsh environments.

Altivar Process Modular brings a new approach with sub-assemblies to build drives locally:

- A power module section to be combined in different drive architectures. Each architecture covers several drive power ranges, set at the discretion of the integrator by using SoMove commissioning software
- Control units that make the drive family differentiation of the power architecture between ATV600 and ATV900 families
- Optional kits and accessories that can be supplied by Schneider Electric or manufactured locally
- Altivar Process Modular Standard drives can be designed as Reduced Height versions for integration in 1.6 m/*5.25 ft* cabinets
- Liquid-cooled modules to create high-power drive solutions that withstand harsh environments

Altivar Process Modular drives are designed to operate on IT and corner-grounded *(1)* systems.

Altivar Process Modular drives can also be supplied as Engineered Drive System variants from 75 to 2600 kW *(125...2600 HP)*, developed by Schneider Electric based on customer specifications. For more information, please contact your Schneider Electric supplier.

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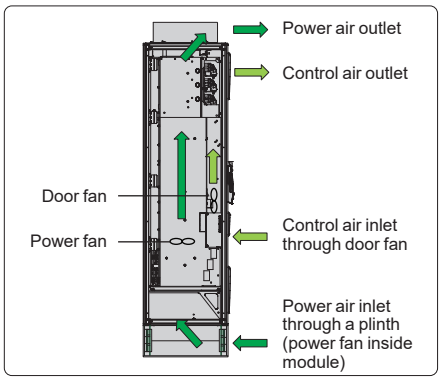
Dimensions: page 20

Variable speed drives
Altivar Process Modular



IP54/UL Type 12 integration with a separate cooling air flow

General presentation of the offer (continued)

Cabinet integration (air-cooled)

Altivar Process Modular brings flexible solutions for special integration constraints as well as standard integration in 2 m/*6.56 ft* height and 600 mm/*23.62 in.* depth cabinets with IP21 (UL Type 1)/IP54 (UL Type 12) protection rating.

The Altivar Process Modular drives offer consists of:
- Drive power and control modules
- Semiconductor protection fuses
- Line chokes to limit THDi levels for the Standard version and less than 3% THDi for the Low Harmonic/Regen version
- A filter to help protect the motor against the effects of dv/dt
- Accessible terminals to simplify the motor wiring and power wiring

IP21 (UL Type 1) integration type creates a common cooling air flow for the power and control sections.

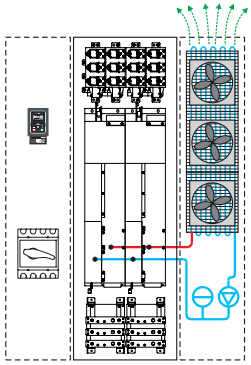
The IP54 (UL Type 12) integration mechanical kit introduces a system for separating the cooling air flow between the power and control sections, allowing operation in a highly polluted environment as well as optimum management of thermal stress in the plant room.

Cabinet integration (liquid-cooled)

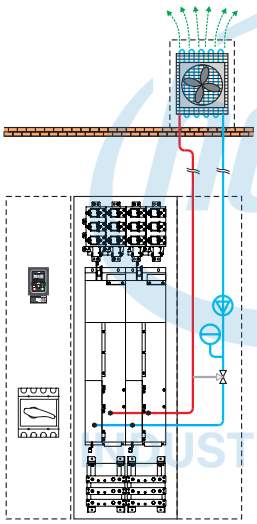
Altivar Process liquid-cooled drives for cabinet integration offer a modular high-power solution for installation in cabinets and separate enclosures. Thanks to the optimized liquid cooling concept, these drives are suitable for operation in a very harsh environment.

The integrated liquid cooling allows optimal dissipation of the heat losses and therefore optimizes the encapsulation of the whole drive unit. Its robust design meets the requirements for applications in harsh enviroments and provides protection up to IP66.

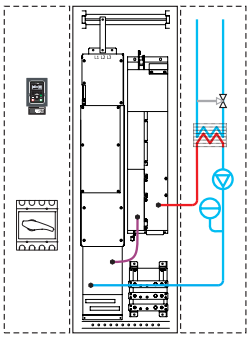
Ideally suited to customer needs with flexible cooling concepts:
- Air-cooled drive with internal liquid/air heat exchanger
- Air-cooled drive with external liquid/air heat exchanger to dissipate the heat losses out of the operating room
- Liquid-cooled drive with liquid/liquid heat exchanger, encapsulated solution for harsh environment and “low noise” requirements



IP23 air-cooled design with internal liquid/air heat exchanger



IP23 with external air heat exchanger



Up to IP66 with liquid/liquid heat exchanger

Optimized cabinet design

Altivar Process Modular liquid-cooled drives bring flexible solutions for special integration constraints with a 6- or 12-pulse supply and robust design with two offers:
- **Universal:** Suitable for all kinds of grid with integrated mains choke (THDi ⩽ 48% at 6-pulse or THDi ⩽ 9% at 12-pulse supply at 80 to 100% load)
- **Compact:** Optimized with dedicated transformer for most compact dimensions

(1) Only Modular Standard drives for 380...480 V supply are compatible with corner-grounded systems.

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Variable speed drives
Altivar Process Modular

Low Harmonic/Regen drive architecture with 2 power modules

General presentation of the offer (continued)

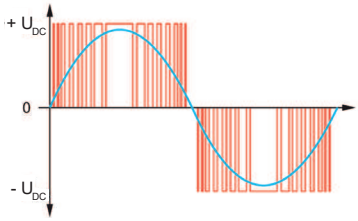
Low Harmonic/Regen drives

The Low Harmonic/Regenerative drives are used when drives need to generate particularly low harmonics on the mains.

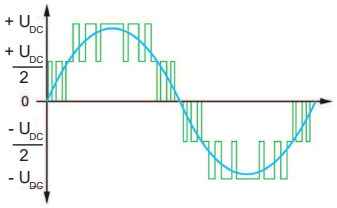
In addition, Low Harmonic/Regen drives are capable of feeding energy back to the mains, enabling a 4Q operation and improving overall application efficiency.

In comparison with commonly-used 2-level AFE (active front end) architectures, the 3-level technology of Altivar Process Modular Low Harmonic/Regen drives allows this new technology to reach a total distortion factor (THDi) of around 2% and thus fulfills the requirements of standard IEEE 519 for a THDi < 5% in case of distorted mains. Additionally, the cos Phi ≈ 1 in each load situation (from 30 % Pn) helps to reduce the line supply load.

The Low Harmonic/Regen drives range is an optimum solution for energy efficiency and process optimization.



2-level technology



3-level technology

Braking unit module

Device features

Enhanced motor service life due to the 3-level concept

The 3-level AIC (active infeed converter) technology reduces the voltage load at the motor significantly, compared with other low harmonic frequency inverters. The fluctuating adaptation of the DC link voltage helps to extend the motor service life.

Reduced losses due to the 3-level concept

In comparison with the traditional circuit structure of active mains rectifiers, the switching frequency is increased and the current load is reduced at the same time when using 3-level technology.

Compact dimensions due to the 3-level concept

A significant advantage of the 3-level technology is the reduced size of the integrated filter. Due to the increased switching frequency and its location inside the forced cooling air channel, the dimensions of the filter can be almost halved.

Braking units

Same integration process as standard power module

Braking units and standard power modules have the same frame and size. They use the same integration kits and DC bus bar kits.

Compliant with Standard and Low Harmonic/Regen drives

Braking units can be built for APM Standard drives, APM Reduced Height drives and APM Low Harmonic/Regen drives with an ATV900 control unit.

Compliant with any APM integration type

- Standard integration in 2 m/*6.56 ft* high cabinets
- Reduced Height integration in 1.6 m/*5.25 ft* high cabinets
- IP21/UL Type 1 with a common cooling air flow
- IP54/UL Type 12 with a separate cooling air flow

Advanced functions with ATV900

- With Standard drives:
  - Full braking torque also in overload range
  - Shortening and monitoring of deceleration time, such as for long travel application
  - Temporary regenerative load, such as for hoist applications
- With Low Harmonic/Regen drives:
  - Braking operation when Energy regeneration is not possible

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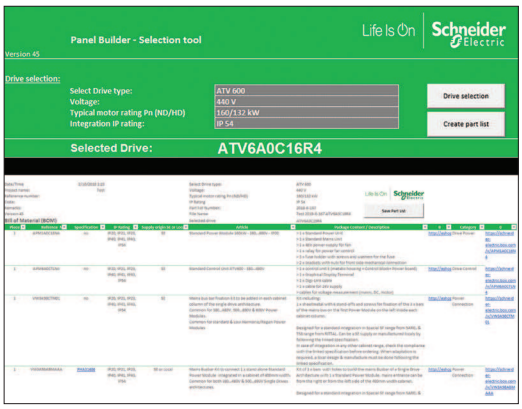
Variable speed drives
Altivar Process Modular



Selection tool for Altivar Process Modular

General presentation of the offer (continued)

Selection tool for Altivar Process Modular

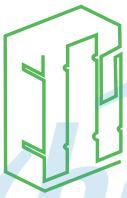
The Selection tool is an intuitive guide for defining the parts list and specification list to build Altivar Process Modular drives.

It is used to:
- Design the correct Modular drive architecture according to the application needs by simply choosing the drive type, protection rating, cabinet type and supplier, supply voltage, and power rating
- Obtain the parts list containing the power modules, control units, mechanical accessories, options, and specifications and their required quantity
- Customize the parts list with project details and additional materials

The tool is accessible to registered partners of Altivar Process Modular through the download area of the mySchneider partner portal.

Altivar Process Modular

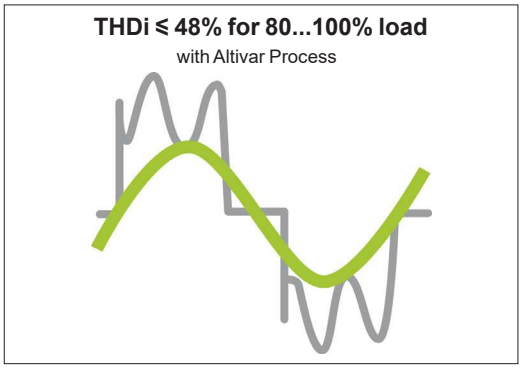
Drive Integration Partner Program



Altivar Process Modular Partner Program

The Altivar Process Modular offer is dedicated to partners building ATV600 and ATV900 high-power drive solutions.

This offer enhances our partners' offerings as they are able to:
- Build customized panels and high-power drive solutions by paralleling drive modules up to 1800 kW *(2500 HP)* in 380...480 V supply voltage and 2600 kW *(2600 HP)* in 500...690 V supply voltage
- Assemble the final drive and perform panel integration
- Benefit from the standardized way of drive integration using the modular concept
- Perform the final power setting and drive registration
- Order/produce mechanical options for integration locally
- Access the download area of the partner portal and find all the relevant technical documents, including mechanical specifications
- Access service training material for commissioning, assembly, and after-sales services
- Become a Schneider Electric recognized trained and registered drive integration partner



Altivar Process drive THDi

Rugged

Altivar Process Modular drives are designed to adapt to the harshest environments.
- ■ Ambient operating temperature
- □ Temperature without derating:
  -10...40 °C/*14...104 °F* for Altivar Process Modular Standard (air- and liquid-cooled)
  -5...40 °C/*23..104 °F* for Altivar Process Modular Low Harmonic/Regen
- □ Temperature with derating of output power: < 50 °C/< *122 °F*
- ■ Relative humidity without condensing: 5...95%
- ■ Storage and transport temperature: -40…+70 °C/*-40…+158 °F*
- ■ Operating altitude:
- □ 0…1,000 m/*0…3,300 ft* without derating
- □ 1,000...4,800 m/*3,300…15,740 ft* with derating of 1% per 100 m/*330 ft*
- ■ Withstand to harsh environments:
- □ Chemical class 3C3 conforming to IEC/EN 60721-3-3
- □ Mechanical class 3S3 conforming to IEC/EN 60721-3-3
- □ Printed circuit boards with protective coating
- □ IP00 to integrate in an enclosure

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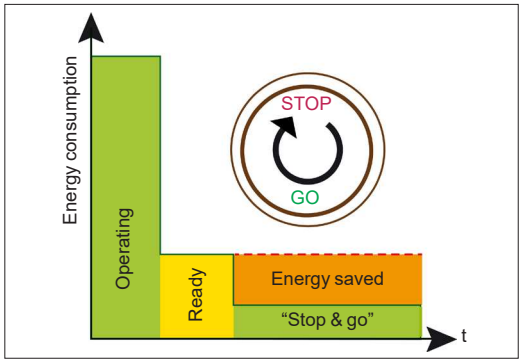
Variable speed drives
Altivar Process Modular



"Stop & go" function

General presentation of the offer (continued)

Energy

Altivar Process drives help to optimize power consumption by reducing the rms input current for the same load.

- Standard offer:
  - THDi ≤ 48% for 80 to 100% load on the most common operating range maintaining an optimum power factor
  - Embedded line choke technology complying with standard IEC 61000-3-12
  - Low Harmonic offer compatible with standard IEEE 519

In addition, thanks to the "Stop & go" function, Altivar Process drives can reduce power consumption by up to 30% during system stop phases by disabling some functions automatically (the power section, fans, backlighting, etc.). On a system restart request, the Altivar Process drive takes less than 2 seconds to restart the motor.

Integrated as standard, the "Stop & go" function can be enabled and disabled in the drive parameters.

Environment

The Altivar Process Modular drives offer has been developed to meet the requirements of directives regarding protection of the environment and to anticipate future changes in regulations:

- REACH *(1)* + solution for REACH Substitute It Now (halogen-free wiring and plastics)
- PEP (Product Environmental Profile) eco-passport program for reducing the carbon footprint and conserving raw materials
- EoLI (End of Life Instruction) *(2)*

Electromagnetic compatibility (EMC)

Compliance with electromagnetic compatibility requirements has been incorporated into the design of Altivar Process Modular drives, which simplifies installation and provides an economical means of helping to ensure equipment meets CE marking requirements.
Altivar Process Modular drives have category C3 EMC filters that allow 300 m/*980 ft* of shielded motor cables.

(1) European regulation 1907/2006.
(2) According to IEC 62635 Enhanced Guidelines.

Variable speed drives
Altivar Process Modular

General presentation of the offer (continued)

Installation/Maintenance

Altivar Process Modular drives are ergonomically designed to adapt to any type of installation:

- IP00 modules that can be integrated in cabinets with an IP21 (UL Type 1) or IP54 (UL Type 12) protection rating as a standard integration and up to IP66 with liquid-cooled modules
- Easy installation of products and systems:
  - Color code for connections to the removable terminal blocks on the HMI block
  - Long cable: Highly efficient integrated motor filters for dv/dt and common mode reduction and voltage peak limitation allow motor cable lengths up to 300 m/*980 ft* with shielded cable (category C3 environment) and 500 m/*1,640 ft* with unshielded cable (category C4 environment)
- Asynchronous or synchronous drive in open loop for 0.1...599 Hz output frequency
- Special motors: Submersible, synchronous reluctance, and tapered rotor motors
- Lower maintenance costs due to drive's ergonomic design:
  - Fans can be replaced in less than 5 minutes thanks to access from front face and drawer design
  - Wheel on standard drive power module for easy removal
  - Limited number of parts and integrated power auxiliaries
- Embedded Web server:
  - Compatible process elements for easier implementation
  - Direct worldwide access to monitoring and maintenance functions:
    - Reading values
    - Modifying data
    - Configuring parameters
    - Changing controller status

Integrated functions

Altivar Process Modular drives include numerous advanced functions for more complex applications in each market segment.

For more information, please refer to the Altivar Process ATV600 and Altivar Process ATV900 catalogs.

Altivar Process catalogs
Click to open the documents

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Variable speed drives
Altivar Process Modular

Altivar Process Modular Standard architecture from 1 to 6 modules

Altivar Process Modular Low Harmonic/Regen architecture from 1 to 6 modules

Altivar Process Modular Standard Reduced Height architecture from 1 to 6 modules

Altivar Process Modular - Liquid-cooled architecture from 1 to 6 modules

Altivar Process Modular offer structure

Presentation

The Altivar Process Modular drives offer is composed of sub-assemblies and accessories that are integrated into cabinets to create modular drive solutions.

These separate elements can be ordered from our Schneider Electric Partner Network. For more information on the references, see page 20.

Numerous drive solutions can be built using these modular parts.
For more information on the characteristics of these configurations, see page 35.

Variable speed drives
Altivar Process Modular

Altivar Process Modular offer structure (continued)

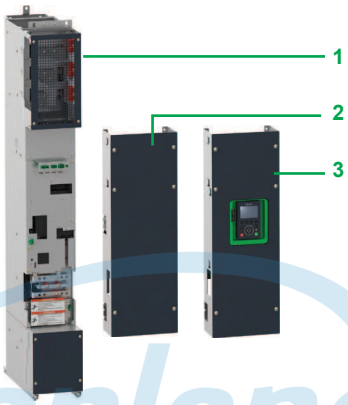
Description

The Altivar Process Modular drives offer consists of sub-assemblies and accessories:

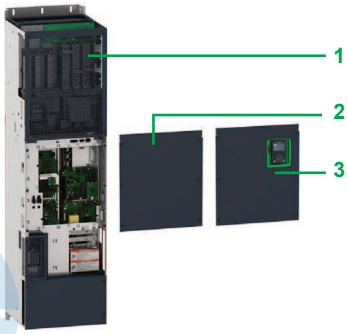
1 Power module, braking unit, or mains module
2 Front face cover
3 Control units for ATV600 and ATV900 or braking unit

Accessories

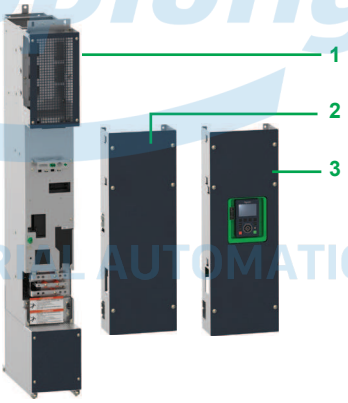
Optional extensions: Communication, I/O expansion, and encoder modules



Altivar Process Modular standard drives

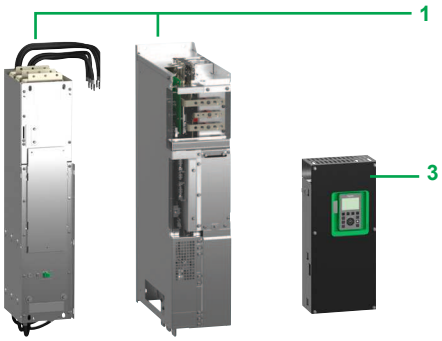


Altivar Process Modular Low Harmonic/Regen drives



Braking units

Altivar Process Modular standard Reduced Height drives



Altivar Process Modular - Liquid-cooled drives

Altivar Process Modular power connection kit

Altivar Process Modular Digi-Link cables

Accessories comprise:
- Power connection kits
- Digi-Link cables
- Mechanical mounting kits

For more information, please contact your Schneider Electric supplier.

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Variable speed drives
Altivar Process Modular
Sub-assemblies and accessories


ATVM_CP19046

APM1A0C16N401


ATVM_CP20082

APM1A0C16N4RH


ATVM_CP24091

APMCA03LCN4RH


ATVM_CP20125

APM1L0C28Y6

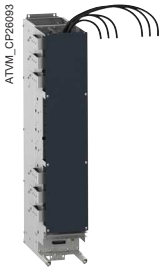
Power modules

Description	Reference	Weight kg/*lb*
Standard architectures		
Standard power module		
Power module 160 kW - 380…480 V IP00: ■ 1 x standard power unit ■ 1 x standard mains unit ■ 3 x fuse holder with screws and washers for the fuse ■ 2 x brackets with nuts for front mechanical connection	APM1A0C16N401	155/ *342*
Power module 200 kW - 500…690 V IP00: ■ 1 x standard power unit ■ 1 x standard mains unit ■ 3 x fuse holder with screws and washers for the fuse ■ 2 x brackets with nuts for front mechanical connection	APM1A0C20Y6	168/ *370*
Low Harmonic/Regen power module		
Power module 160 kW - 380…480 V IP00: ■ 1 x power module for Low Harmonic/Regen APM drives ■ 3 x fuse holder with screws and washers for the fuse	APM1B0C16N4	260/ *574*
Power module 200 kW - 500…690 V IP00: ■ 1 x power module for Low Harmonic/Regen APM drives ■ 3 x fuse holder with screws and washers for the fuse	APM1B0C20Y6	290/ *639*
Reduced Height architectures		
Standard power module (Reduced Height integration)		
Power module for Reduced Height 160 kW - 380…480 V IP00: ■ 1 x power module	APM1A0C16N4RH	100/ *220*
Power module for Reduced Height 200 kW - 500…690 V IP00: ■ 1 x power module	APM1A0C20Y6RH	100/ *220*
Liquid-cooled architectures		
Standard power module liquid-cooled		
Standard power module 200 kW - 380…480V IP00: ■ 1 x standard power unit with embedded 6-/12-pulse rectifier ■ 1 x integrated water/water heat exchanger	APM1L0C20N4	82.5/ *182*
Standard power module 315 kW - 380…480V IP00 ■ 1 x standard power unit with embedded 6-/12-pulse rectifier ■ 1 x integrated water/water heat exchanger	APM1L0C31N4	82.5/ *182*
Standard power module 280 kW - 500…690V IP00: ■ 1 x standard power unit with embedded 6-/12-pulse rectifier ■ 1 x integrated water/water heat exchanger	APM1L0C28Y6	82.5/ *182*
Standard power module 450 kW - 500…690V IP00 ■ 1 x standard power unit with embedded 6-/12-pulse rectifier ■ 1 x integrated water/water heat exchanger	APM1L0C45Y6	82.5/ *182*

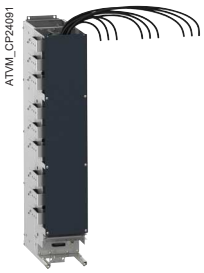
Overall dimensions

Reference	W x H x D	
	mm	*in.*
APM1A0C16N401	230 x 1705 x 510	*9.10 x 67.12 x 20.08*
APM1A0C20Y6		
APM1B0C16N4	450 x 1692 x 508	*17.72 x 66.61 x 20*
APM1B0C20Y6		
APM1A0C16N4RH	230 x 1230 x 509	*9.10 x 48.43 x 20*
APM1A0C20Y6RH		
APM1L0C20N4	232 x 1080 x 526	*9.13 x 40.08 x 20.71*
APM1L0C31N4		
APM1L0C28Y6		
APM1L0C45Y6		

Variable speed drives
Altivar Process Modular
Sub-assemblies and accessories



APMCA02LCN4RH



APMCA03LCY6RH

Power modules

Description	Reference	Weight kg/*lb*
Reduced Height architectures (continued)		
Mains module (Reduced Height integration)		
Mains module 1 line choke - 380…480V - IP00: For combination with 1 standard power module. ■ 1 x mains module for APM Standard Reduced Height 380...480V ■ Components for power fan management: Controller, 48 VDC power supply, 2 x relays and 2 x relay holders, 3 x fuses and 3 x fuse holders	APMCA01LCN4RH	103/ *227*
Mains module 2 line chokes - 380…480V - IP00: For combination with 2 x standard power modules. ■ 1 x mains module for APM Standard Reduced Height 380...480V ■ Components for power fan management: Controller, 48 VDC power supply, 2 x relays and 2 x relay holders, 3 x fuses and 3 x fuse holders	APMCA02LCN4RH	160/ *353*
Mains module 3 line chokes - 380…480V - IP00: For combination with 3 x standard power modules. ■ 1 x mains module for APM Standard Reduced Height 380...480V ■ Components for power fan management: Controller, 48 VDC power supply, 2 x relays and 2 x relay holders, 3 x fuses and 3 x fuse holders	APMCA03LCN4RH	217/ *478*
Mains module 1 line choke - 500…690V - IP00: For combination with 1 standard power module. ■ 1 x mains module for APM Standard Reduced Height 500…690V ■ Components for power fan management: Controller, 48 VDC power supply, 2 x relays and 2 x relay holders, 3 x fuses and 3 x fuse holders	APMCA01LCY6RH	116/ *256*
Mains module 2 line chokes - 500…690V - IP00: For combination with 2 x standard power modules. ■ 1 x mains module for APM Standard Reduced Height 500…690V ■ Components for power fan management: Controller, 48 VDC power supply, 2 x relays and 2 x relay holders, 3 x fuses and 3 x fuse holders	APMCA02LCY6RH	186/ *410*
Mains module 3 line chokes - 500…690V - IP00: For combination with 3 x standard power modules. ■ 1 x mains module for APM Standard Reduced Height 500…690V ■ Components for power fan management: Controller, 48 VDC power supply, 2 x relays and 2 x relay holders, 3 x fuses and 3 x fuse holders	APMCA03LCY6RH	256/ *564*

Overall dimensions

Reference	W x H x D	
	mm	*in.*
APMCA01LCN4RH	269 x 1248 x 506	*10.60 x 49.10 x 19.92*
APMCA02LCN4RH		
APMCA03LCN4RH		
APMCA01LCY6RH		
APMCA02LCY6RH		
APMCA03LCY6RH		

Variable speed drives
Altivar Process Modular
Sub-assemblies and accessories

ATVM_CP19041

APM6A0CTLN401

ATVM_CP19025

APM6B0CTLY6

ATVM_CP20126

APM9L0CTLY6

Control units for power module		
Description	**Reference**	**Weight kg/*lb***
ATV600 *(1)*		
Standard module 380…480 V	APM6A0CTLN401	6.8/*14.9*
Standard module 500…690 V	APM6A0CTLY6	6.8/*14.9*
Low Harmonic 380…480 V	APM6B0CTLN4	8.0/*17.6*
Low Harmonic 500…690 V	APM6B0CTLY6	4.8/*10.6*
Liquid-cooled 380...480 V	APM6L0CTLN4	6.5/*14.3*
Liquid-cooled 500...690 V	APM6L0CTLY6	6.5/*14.3*
ATV900 *(1)*		
Standard module 380…480 V	APM9A0CTLN401	6.8/*14.9*
Standard module 500…690 V	APM9A0CTLY6	6.8/*14.9*
Low Harmonic/Regen 380…480 V	APM9B0CTLN4	8.0/*17.6*
Low Harmonic/Regen 500…690 V	APM9B0CTLY6	4.8/*10.6*
Liquid-cooled 380...480 V	APM9L0CTLN4	6.5/*14.3*
Liquid-cooled 500...690 V	APM9L0CTLY6	6.5/*14.3*

Overall dimensions		
Reference	**W x H x D**	
	mm	***in.***
APM6A0CTLN401	230 x 678 x 108	*9.10 x 16.80 x 4.30*
APM9A0CTLN401		
APM6A0CTLY6		
APM9A0CTLY6		
APM6L0CTLN4	230 x 510 x 131	*9.10 x 20.08 x 5.16*
APM6L0CTLY6		
APM6B0CTLN4	450 x 520 x 105	*17.72 x 20.47 x 4.13*
APM9B0CTLN4		
APM6B0CTLY6		
APM9B0CTLY6		
APM9L0CTLN4	230 x 510 x 131	*9.10 x 20.08 x 5.16*
APM9L0CTLY6		

(1) All control units include 1 control unit (metal housing + control block + power board), 1 graphic display terminal, 1 Digi-Link cable, 1 cable for 24 V supply, and cables for voltage measurement (mains, DC, motor).

Variable speed drives
Altivar Process Modular
Sub-assemblies and accessories

ATVM_65654_CPSCT18007

VW3A97A01

Housings

Description	Reference	Weight kg/*lb*
Standard front face cover	VW3A97A01	5.0/*11.0*
Low Harmonic/Regen front face cover	VW3A97B01	5.9/*13.0*

Overall dimensions

Reference	W x H x D	
	mm	*in.*
VW3A97A01	230 x 678 x 108	*9.06 x 26.70 x 4.25*
VW3A97B01	450 x 520 x 105	*17.72 x 20.47 x 4.13*

ATVM_65654_CPSCT18005

VW3A83CDG●●

Control cables

Description	Reference	Weight kg/*lb*
RJ45 module-link cable 1.5 m/*4.92 ft*	VW3A83BMR015	0.120/*0.264*
RJ45 module-link cable 5 m/*16.4 ft*	VW3A83BMR050	0.230/*0.507*
Digi-Link cable 2 m/*6.56 ft*	VW3A83CDG020	0.100/*0.220*
Digi-Link cable 3 m/*9.84 ft*	VW3A83CDG030	0.140/*0.309*
Digi-Link cable 5 m/*16.4 ft*	VW3A83CDG050	0.230/*0.507*
Digi-Link cable 10 m/*33 ft*	VW3A83CDG100	0.430/*0.948*

Variable speed drives
Altivar Process Modular
Sub-assemblies and accessories


ATVM_65654_CPSCT18009

VW3A98ABMAAA


ATVM_65654_CPSCT18010

VW3A98ABMCAC


ATVM_65654_CPSCT18012

VW3A98CTM01


ATVM_65654_CPSCT18013

VW3A98CTM02


ATVM_65654_CPSCT18008

VW3A98CF4040

Power busbar kits

Description	Reference	Weight kg/*lb*
Power busbar kit to connect 1 standalone power module in a 400 mm/*15.75 in.* width cabinet.	VW3A98ABMAAA	4.5/*9.9*
Power busbar kit to connect 2 side-by-side power modules in a 600 mm/*23.62 in.* width cabinet	VW3A98ABMCAB	8.0/*17.6*
Power busbar kit to connect 3 side-by-side power modules in a 800 mm/*31.50 in.* width cabinet	VW3A98ABMCAC	12.0/*26.5*
Power busbar kit to connect 2 remote power modules integrated in side-by-side cabinet columns of: ■ 600 mm + 600 mm (*23.62 in.* + *23.62 in.*) width or ■ 800 mm + 600 mm (*31.50 in.* + *23.62 in.*) width	VW3A98ABMDCE	2.5/*5.5*
Power busbar kit to connect 2 remote power modules integrated in side-by-side cabinet columns of 800 mm + 800 mm (*31.50 in.* + *31.50 in.*) width	VW3A98ABMDCF	2.0/*4.4*
Power busbar kit to connect: ■ 2 side-by-side standard power modules or ■ 1 side-by-side standard power module + 1 braking unit	VW3A98ABPC1	1.0/*2.2*
Power busbar kit to connect: ■ 2 remote standard power modules or ■ 1 remote standard power module and 1 braking unit In side-by-side cabinet columns of: ■ 600 mm + 600 mm (*23.62 in.* + *23.62 in.*) width or ■ 800 mm + 600 mm (*31.50 in.* + *23.62 in.*) width	VW3A98ABPDCE1	2.6/*5.7*
Power busbar kit to connect 2 power modules integrated in side-by-side cabinet columns of 800 mm+ 800 mm (*31.50 in.* + *31.50 in.*) width	VW3A98ABPDCF	2.0/*4.4*
Power busbar kit to connect 1 standalone Low Harmonic power module integrated in a 600 mm/*23.62 in.* width cabinet	VW3A98BBMAAB	8.4/*18.5*
Power busbar kit to connect 2 side-by-side Low Harmonic power modules integrated in a 1,000 mm/*39.37 in.* width cabinet	VW3A98BBMCAD	16.5/*36.4*
Power busbar kit to connect 2 remote Low Harmonic power modules integrated in side-by-side cabinet columns of: ■ 600 mm + 1,000 mm (*23.62 in.* + *39.37 in.*) width or ■ 1,000 mm + 1,000 mm (*39.37 in.* + *39.37 in.*) width	VW3A98BBMDCG	1.8/*4.0*
Power busbar kit to connect 2 side-by-side Low Harmonic power modules	VW3A98BBPC	2.0/*4.4*
Power busbar kit to connect 2 remote Low Harmonic power modules integrated in side-by-side cabinet columns of: ■ 600 mm + 1,000 mm (*23.62 in.* + *39.37 in.*) width or ■ 1,000 mm + 1,000 mm (*39.37 in.* + *39.37 in.*) width	VW3A98BBPDCG	2.5/*5.5*
Power busbar kit to connect 1 Low Harmonic/Regen power module with 1 braking unit integrated in side-by-side cabinet columns of: ■ 400 mm + 600 mm (*15.75 in.* + *23.62 in.*) width or ■ 400 mm + 1,000 mm (*15.75 in.* + *39.37 in.*) width	VW3A98BBPDCK	1.0/*2.2*
Power busbar mounting kit	VW3A98CTM01	0.5/*1.1*
Power terminal kit	VW3A98CTM02	7.5/*16.5*

Fuses

Description	Reference	Weight kg/*lb*
Set of 3 fuses 315 A	VW3A98CF3169	0.750/*1.653*
Set of 3 fuses 400 A, UL certified	VW3A98CF4040	0.750/*1.653*

Variable speed drives
Altivar Process Modular
Sub-assemblies and accessories

ATVM_65654_CPSCT18014

VW3A99ACFAA

ATVM_65654_CPSCT18018

VW3A99AR01

ATVM_CP20100

VW3A99ACFCBM02

ATVM_CP20109

VW3A99ACA11

Mechanical mounting kits

Description	Cabinet	Reference	Weight kg/*lb*
Mounting kits			
Mains terminal extension plates for drive architectures with UL certification	SF/TS8/VX25	VW3A98CTM03	6.5/ *14.2*
Mains bar support for a required SCR rating > 50 kA	SF/TS8/VX25	VW3A98CTM04	0.2/ *0.4*
Mechanical mounting kit for integration of: ■ 1 standard power module in a 400 mm/*15.75 in.* width cabinet	SF/TS8	VW3A99ACFAA	6.6/ *14.6*
	VX25	VW3A99ACFAA01	
Mechanical mounting kit for integration of: ■ 2 standard power modules in a 600 mm/*23.62 in.* width cabinet	SF/TS8	VW3A99ACFCB	9.5/ *20.9*
	VX25	VW3A99ACFCB01	
Mechanical mounting kit for integration of: ■ 3 standard power modules in a 800 mm/*31.50 in.* width cabinet.	SF/TS8	VW3A99ACFEC	14.0/ *30.9*
	VX25	VW3A99ACFEC01	
Removable support	SF/TS8/VX25	VW3A99AR01	2.2/ *4.9*
Mechanical mounting kit for integration of: ■ 1 Low Harmonic/Regen power module in a 600 mm/*23.62 in.* width cabinet	SF/TS8	VW3A99BCFAB	17.0/ *37.5*
	VX25	VW3A99BCFAB01	
Mechanical mounting kit for integration of: ■ 2 Low Harmonic/Regen power modules in a 1,000 mm/39.37 in. width cabinet.	SF/TS8	VW3A99BCFCD	26.0/ *57.3*
	VX25	VW3A99BCFCD01	
Removable support for Low Harmonic power module integration	SF/TS8/VX25	VW3A99BR01	16.5/ *36.4*
Mechanical mounting kit for integration of: ■ 1 standard power module + 1 mains module	SF/TS8/VX25	VW3A99ACFCBN01	10.0/ *22.0*
Mechanical mounting kit for integration of: ■ 2 standard power modules or ■ 1 standard power module + 1 braking module or ■ 2 braking modules	SF/TS8	VW3A99ACFCBM01	9.0/ *19.8*
Mechanical mounting kit for integration of: ■ 2 standard power modules or ■ 1 standard power module + 1 braking module or ■ 2 braking modules	VX25	VW3A99ACFCBM02	9.0/ *19.8*
Mechanical mounting kit for integration of: ■ 3 standard power modules or ■ 2 standard power modules + 1 braking module	SF/TS8	VW3A99ACFEBN01	12.0/ *26.5*
Mechanical mounting kit for integration of: ■ 3 standard power modules or ■ 2 standard power modules + 1 braking module	VX25	VW3A99ACFEBN02	12.0/ *26.5*
Mechanical mounting kit for integration of: ■ 1 mains module	SF/TS8/VX25	VW3A99ACFABM	5.5/ *12.1*
Top air ducts			
Top outlet cooling air duct for IP54/UL Type 12 integration of: ■ 1 standard power module or ■ 1 braking unit		VW3A99ACA03	1.8/ *4.0*
Top outlet cooling air duct for IP54/UL Type 12 integration of: ■ 1 Low Harmonic/Regen power module		VW3A99BCA03	1.7/ *3.7*
Top outlet cooling air duct for IP54/UL Type 12 integration of: ■ 1 standard power module or ■ 1 braking module		VW3A99ACA04	3.0/ *6.6*
Top outlet cooling air duct for IP54/UL Type 12 integration of: ■ 1 mains module		VW3A99ACA11	2.5/ *5.5*
Top outlet cooling air duct for IP54/UL Type 12 integration of: ■ 1 standard power module or ■ 1 braking module in cabinet with an air cooling outlet at the top rear side		VW3A99ACA12	4.0/ *8.8*
Top outlet cooling air duct for IP54/UL Type 12 integration of: ■ 1 mains module in cabinet with an air cooling outlet at the top rear side		VW3A99ACA13	3.0/ *6.6*

Variable speed drives
Altivar Process Modular
Sub-assemblies and accessories

VW3A99ACA01

VW3A99ACA10

Mechanical mounting kits (continued)

Description	Cabinet	Reference	Weight kg/*lb*
Bottom supports and ducts			
Bottom support for IP21/UL Type 1 integration of: ■ 1 standard power module		VW3A99ACA01 VW3A99ACA07	8.0/ *17.6*
Bottom support for IP54/UL Type 12 integration of: ■ 1 standard power module		VW3A99ACA02 VW3A99ACA08	7.6/ *17.8*
Bottom inlet air duct for IP54/UL Type 12 integration of: ■ 1 Low Harmonic/Regen power module		VW3A99BCA02	6.9/ *15.2*
Bottom support for IP21/UL Type 1 integration of: ■ 1 standard power module or ■ 1 mains module or ■ 1 braking module	SF/TS8	VW3A99ACA05	3.0/ *6.6*
Bottom support for IP54/UL Type 12 integration of: ■ 1 standard power module or ■ 1 mains module or ■ 1 braking module	SF/TS8	VW3A99ACA06	6.0/ *13.2*
Bottom support for IP21/UL Type 1 integration of: ■ 1 standard power module or ■ 1 mains module or ■ 1 braking module	VX25	VW3A99ACA09	3.0/ *6.6*
Bottom support for IP54/UL Type 12 integration of: ■ 1 standard power module or ■ 1 mains module or ■ 1 braking module	VX25	VW3A99ACA10	6.0/ *13.2*
Mechanical mounting kits for liquid-cooled drives			
Connection kit for drive power module and motor protection module in 600mm/*23.62 in.* width cabinets for 2 to 6 modules		VW3A98LBPC1	15.0/ *33.1*
Mains bar support		VW3A98LTMC1	1.5/ *3.3*
Set of tubes for liquid cooling		VW3A98LGHC1	5.0/ *11.0*
Over-pressure valve		VW3A98LGHC2	2.5/ *5.5*
Motor terminal extension for box lugs		VW3A98LBPC3	2.5/ *5.5*
Braking module interconnection kit including cabinet cooling module adapter		VW3A98LBPC2	27.0/ *59.5*
Module-link cable 10 m/*32.8 ft* for braking unit		VW3A83BMR100	0.430/ *0.948*
Steel support for liquid-cooled module		VW3A99LR01	6.0/ *13.2*

APM1L0LFMY6

Additional modules for liquid-cooled drives

Description	Reference	Weight kg/*lb*
Line paralleling		
Line paralleling module IP00, 380 … 480 V ■ 6- or 12-pulse supply ■ 1 x paralleling choke ■ 3 x semiconductor fuses	APM1L0LPMN4	40.0/ *88.2*
Line paralleling module IP00, 500 … 690 V ■ 6- or 12-pulse supply ■ 1 x paralleling choke ■ 3 x semiconductor fuses	APM1L0LPMY6	40.0/ *88.2*
Line filter		
Line filter module IP00, 380 … 480 V ■ EMC filter	APM1L0LFMN4	6.5/ *14.3*
Line filter module IP00, 500 … 690 V ■ EMC filter	APM1L0LFMY6	6.5/ *14.3*

Variable speed drives
Altivar Process Modular
Sub-assemblies and accessories

APMBC0C63Y6

APMBC0CTLY6

Additional modules for liquid-cooled drives *(continued)*

Description	Reference	Weight kg/*lb*
Line choke		
Line choke module IP00, 380 … 480 V ■ 6- or 12-pulse supply ■ 2 x three-phase line reactors ■ 6 x semiconductor fuses ■ EMC filter	APM1L0LCMN4	*183/ 404*
Line choke module IP00, 500 … 690 V ■ 6- or 12-pulse supply ■ 2 x three-phase line reactors ■ 6 x semiconductor fuses ■ EMC filter	APM1L0LCMY6	*183/ 404*
Motor protection		
Motor protection module IP00, 380 … 480 V ■ 1 x dv/dt filter and common mode filter ■ Integrated motor terminals	APM1L0MPMN4	32.5/ *71.7*
Motor protection module IP00, 500 … 690 V ■ 1 x dv/dt filter and common mode filter ■ Integrated motor terminals	APM1L0MPMY6	32.5/ *71.7*
Cabinet cooling		
Cabinet cooling module IP00, 115 VAC ■ Air/water heat exchanger with fan	APM1L0CCM115	13.5/ *29.8*
Cabinet cooling module IP00, 230 VAC ■ Air/water heat exchanger with fan	APM1L0CCM230	13.5/ *29.8*

Braking modules

Description	Reference	Weight kg/*lb*
Braking module for APM 380…480 V: ■ 1 x power unit ■ 1 x air outlet unit ■ 2 x brackets with nuts for front mechanical connection	APMBC0C50N4	95/ *209*
Braking module for APM 500…690 V: ■ 1 x power unit ■ 1 x air outlet unit ■ 2 x brackets with nuts for front mechanical connection	APMBC0C63Y6	95/ *209*

Overall dimensions

Reference	W x H x D	
	mm	*in.*
APMBC0C50N4	750 x 1,360 x 700	*29.53 x 53.54 x 27.56*
APMBC0C63Y6		

Control units for braking unit

Description	Reference	Weight kg/*lb*
Control unit for braking unit 380…480 V	APMBC0CTLN4	6.7/ *14.8*
Control unit for braking unit 500...690 V	APMBC0CTLY6	6.7/ *14.8*

Overall dimensions

Reference	W x H x D	
	mm	*in.*
APMBC0CTLN4	287 x 735 x 178	*11.30 x 28.94 x 7.01*
APMBC0CTLY6		

Variable speed drives
Altivar Process Modular
Options: Wear parts, configuration and runtime tools

ATVM_66854_CPSCT18006

VX5VAM001

Wear parts

Description	Reference	Weight kg/*lb*
Power fan kit	VX5VAM001	1.420/ *3.130*
Drive power fan kit	VX5VAML001	0.7/ *1.543*
Cabinet cooling fan kit, 115 V ∿	VX5VAML003	1.4/ *3.086*
Cabinet cooling fan kit, 230 V ∿	VX5VAML002	1.4/ *3.086*

SoMove software

SoMove software for Altivar Process Modular

Presentation

SoMove software for PC is used to configure, set up, and maintain Altivar Process drives.

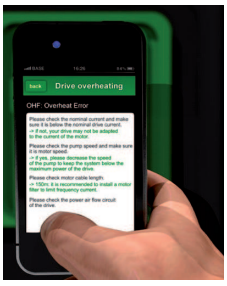
In addition to the standard features offered by SoMove software, such as the oscilloscope function for accurate display of data samples or access to multi-drive applications, the following features are accessible to partners of Altivar Process Modular drives:

- First-time drive setting including architecture identification and validation, main voltage and nominal power range setting, and operational reference creation, which is the identity card of the configuration
- Serial number generation for the built modular drive
- Activation of warranty by registering the built modular drive in the Schneider Electric Partner Database
- Start-up and and maintenance of the built modular drive

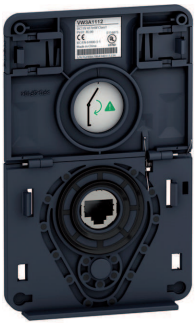
For more information on SoMove setup software, please consult the SoMove Setup software for motor control devices catalog.

Variable speed drives
Altivar Process Modular
Options: Graphic display terminal, communication accessory

Graphic display terminal
(example shows dynamic pump operation in relation to its optimum operation)



Instant access to online help



Remote mounting kit for mounting graphic display terminal on enclosure door (front panel)

Remote mounting kit for graphic display terminal (rear panel)

Graphic display terminal (supplied with the drive)

References

Description	Reference	Weight kg/ *lb*
Graphic display terminal	VW3A1111	0.200/ *0.441*

Communication accessory

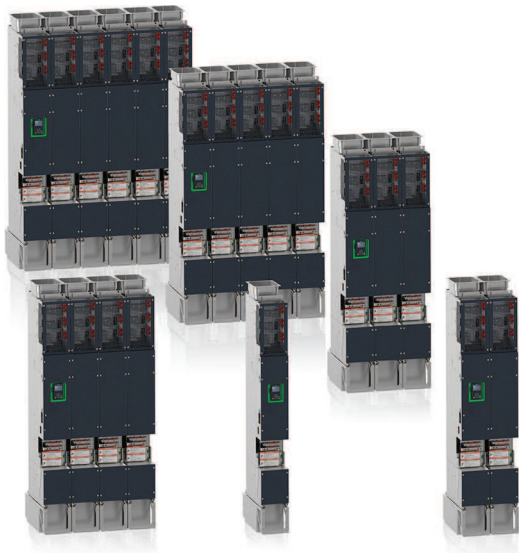
Description	Reference	Weight kg/ *lb*
Wi-Fi dongle Portable battery-powered Wi-Fi access point for Wi-Fi equipment (PC, tablet, smartphone, etc.)	TCSEGWB131W	0.134/ *0.295*

References

Description	Length m/ *ft*	IP rating	Reference	Weight kg/ *lb*
Remote mounting kit Order with remote-mounting cordset VW3A1104R●●●	–	65/UL Type 12	VW3A1112	–
Tightening tool for remote mounting kit	–	–	ZB5AZ905	0.016/ *0.035*
Remote-mounting cordset equipped with 2 RJ45 connectors	1/ *3.28*	–	VW3A1104R10	0.050/ *0.110*
	3/ *9.84*	–	VW3A1104R30	0.150/ *0.331*
	5/ *16.4*	–	VW3A1104R50	0.250/ *0.551*
	10/ *33*	–	VW3A1104R100	0.500/ *1.102*
IP65 remote mounting kit for Ethernet port *(1)* Ø 22 RJ45 female/female adapter with seal	–	65	VW3A1115	0.018/ *0.040*

(1) Used to connect a remote PC to the RJ45 port on an IP21 drive mounted in an enclosure. Drill hole with a standard Ø 22 tool, as used for a pushbutton (requires a remote-mounting cordset VW3A1104R●●● equipped with 2 RJ45 connectors).

Variable speed drives
Altivar Process Modular



Altivar Process Modular Standard architecture from 1 to 6 modules

Modular drives

Modular drive solutions can be built using power modules, control units, and accessories. They cover motor power ratings from 75…2600 kW/*125…2600 HP* for 380…690 V three-phase voltages.

Three-phase power supply - 380…480 V (-15…10%) Standard

Motor power	Degree of protection	Reference
110…800 kW *150…1100 HP*	IP00	**ATV6A0C11●4…C80●4** **ATV9A0C11●4…C80●4**

Three-phase power supply 500 V (-10…15%), 600…690 V (-15…10%) Standard

Motor power	Degree of protection	Reference
75…1200 kW *125…1200 HP*	IP00	**ATV6A0C11●6…M12●6** **ATV9A0C11●6…M12●6**

Three-phase power supply - 380…440 V (-15…10%), 480 V (-10…10%) Low Harmonic

Motor power	Degree of protection	Reference
110…800 kW *150…1100 HP*	IP00	**ATV6B0C11●4…C80●4** **ATV9B0C11●4…C80●4**

Altivar Process Modular Low Harmonic/Regen architecture from 1 to 6 modules

Three-phase power supply 500 V (-15…10%), 600…690 V (-10…10%) Low Harmonic

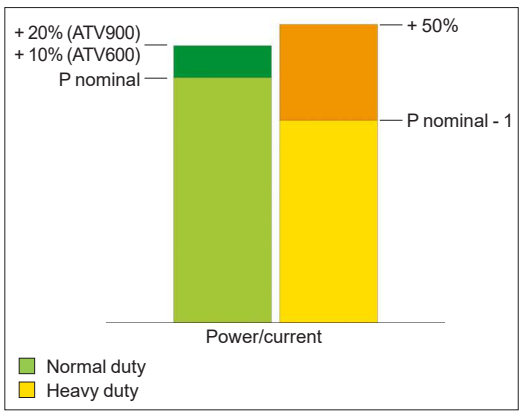
Motor power	Degree of protection	Reference
75…1200 kW *125…1200 HP*	IP00	**ATV6B0C11●6…M12●6** **ATV9B0C11●6…M12●6**

Liquid-cooled three-phase power supply - 400 V…480 V (-15…10%) Standard

Motor power	Degree of protection	Reference
132…1800 kW *200…2500 HP*	IP00	**ATV6L0C13●4…M18●4** **ATV9L0C13●4…M18●4**

Liquid-cooled three-phase power supply - 500 V…690 V (-15…10%) Standard

Motor power	Degree of protection	Reference
132…2600 kW *200…2600 HP*	IP00	**ATV6L0C20●6…M26●6** **ATV9L0C20●6…M26●6**



Normal duty and Heavy duty modes

Altivar Process Modular variable speed drives are designed for use in two operating modes that can optimize the drive nominal rating according to the system constraints.
These two modes are:

- Normal duty (ND): Dedicated mode for applications requiring a slight overload (up to 110% for ATV600 and 120% for ATV900) with a motor power no higher than the drive nominal power
- Heavy duty (HD): Dedicated mode for applications requiring a significant overload (up to 150% for both ATV600 and ATV900) with a motor power no higher than the drive nominal power derated by one rating

Variable speed drives
Altivar Process Modular
Architectures

Architectures

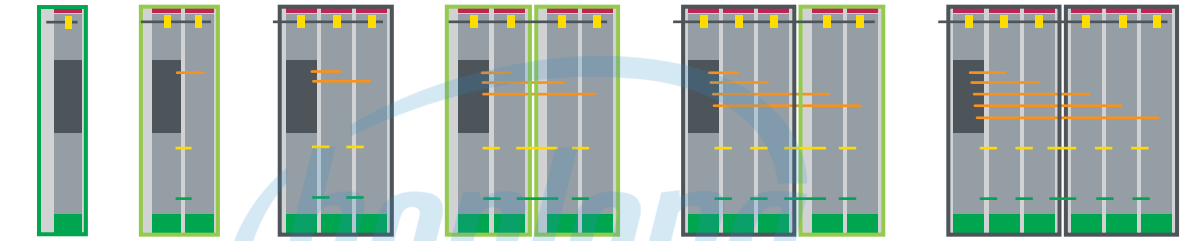
Altivar Process Modular drives can be integrated into cabinets with the following dimensions:
- 2,000 mm/*78.7 in.* height for standard cabinets or 1,600 mm/*63 in.,* height for Reduced Height cabinets
- 600 mm/*23.6 in.* depth
- Four different widths: 400 mm/*15.7 in.*, 600 mm/*23.6 in.*, 800 mm/*31.5 in.,* and 1,000 mm/*39.4 in.*

For a 380..480 V line supply, there are five different kinds of Standard and Reduced Height architectures for Standard or Low Harmonic/Regen drives with a power range from 110 to 800 kW (*150 to 1100 HP*).

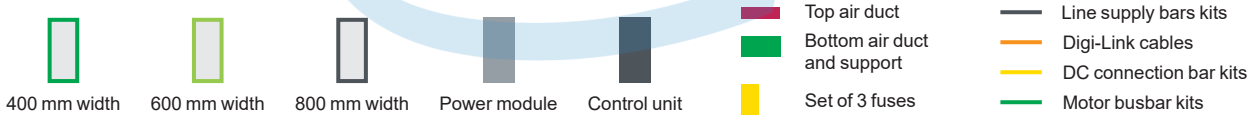
For a 500…690 V line supply, there are six different kinds of Standard and Reduced Height architectures for Standard, Low Harmonic/Regen, or Liquid-cooled drives from 75 to 2600 kW (*125 to 2600 HP*).

Architectures with braking exist on all the Standard drive ranges. For the Low Harmonic/Regen drive architectures, there are three different kinds of architecture with a power range from 110 to 500 kW (*150 to 700 HP*) for a 380..480 V line supply and 75 to 630 kW (*125 to 650 HP*) for a 500…690 V line supply.
Please refer to the combinations table (see page 80) to learn more about the possible architectures.

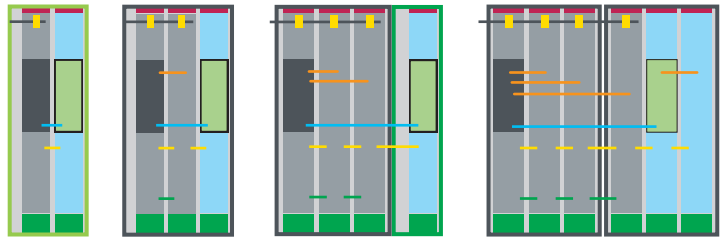
Standard drive solutions without braking - Standard architectures



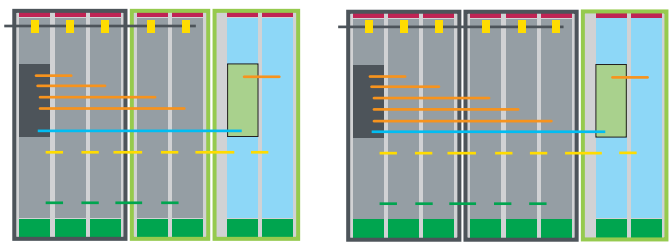
380…480 V	110 to 160 kW	200 to 315 kW	355 to 500 kW	560 to 630 kW	710 to 800 kW	–
500…690 V	75 to 200 kW	160 to 400 kW	355 to 630 kW	560 to 800 kW	710 to 1000 kW	800 to 1200 kW



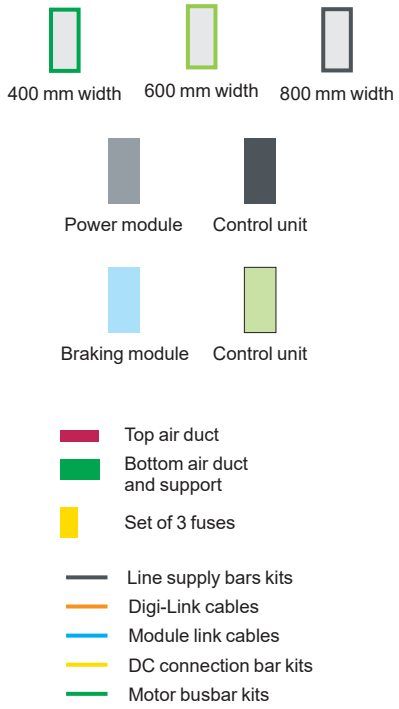
Standard drive solutions with braking - Standard architectures



400 V	110 to 160 kW	200 to 315 kW	355 to 500 kW	560 to 630 kW
690 V	75 to 200 kW	160 to 400 kW	355 to 630 kW	560 to 800 kW



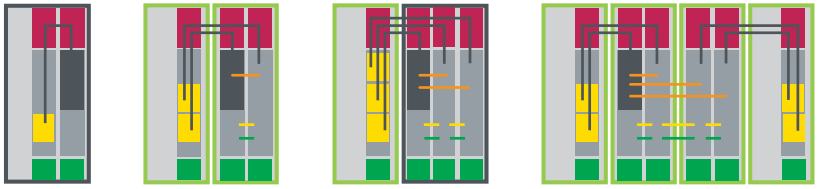
400 V	710 to 800 kW	–
690 V	710 to 1000 kW	800 to 1200 kW



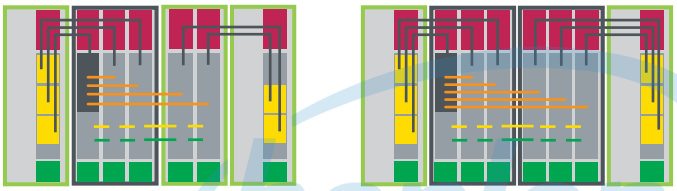
Variable speed drives
Altivar Process Modular
Architectures

Architectures (continued)

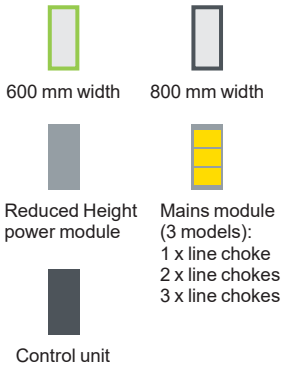
Standard drive solution without braking - Reduced Height architectures



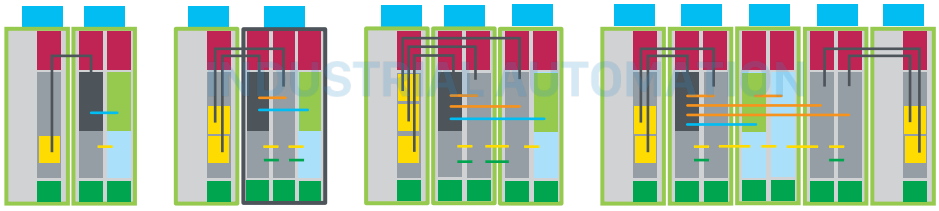
	1 x APM 800 mm width	2 x APM 1,200 mm width	3 x APM 1,400 mm width	4 x APM 2,400 mm width
400 V	110 to 160 kW	200 to 315 kW	355 to 500 kW	560 to 630 kW
690 V	110 to 200 kW	250 to 400 kW	500 to 630 kW	800 kW



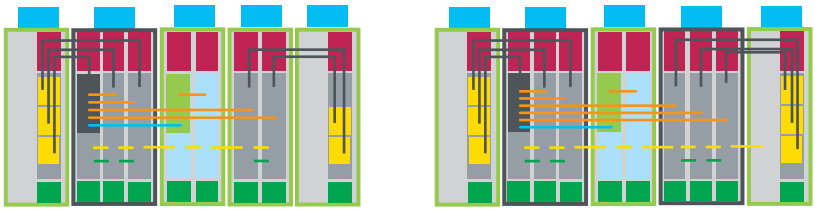
	5 x APM 2,600 mm width	6 x APM 2,800 mm width
400 V	710 to 800 kW	–
690 V	1000 kW	1200 kW



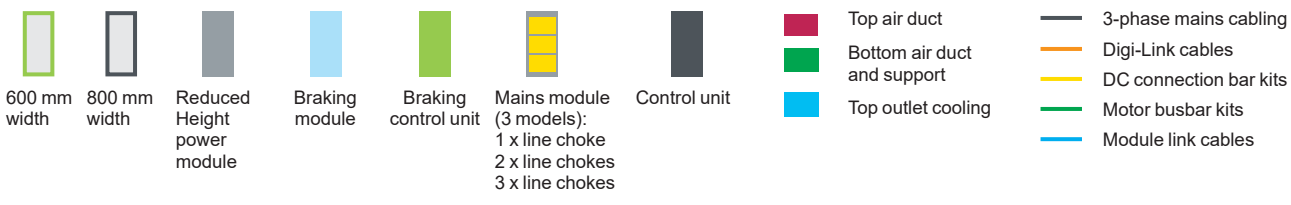
Standard drive solution with braking - Reduced Height architectures



	1 x APM 1 x BM 1,200 mm width	2 x APM 1 x BM 1,400 mm width	3 x APM 1 x BM 1,800 mm width	4 x APM 2 x BM 3,000 mm width
400 V	110 to 160 kW	200 to 315 kW	355 to 500 kW	560 to 630 kW
690 V	110 to 200 kW	250 to 400 kW	500 to 630 kW	800 kW



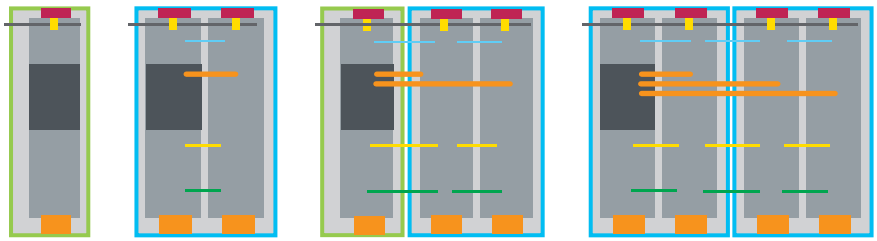
	5 x APM 2 x BM 3,200 mm width	6 x APM 2 x BM 3,400 mm width
400 V	710 to 800 kW	–
690 V	1000 kW	1200 kW



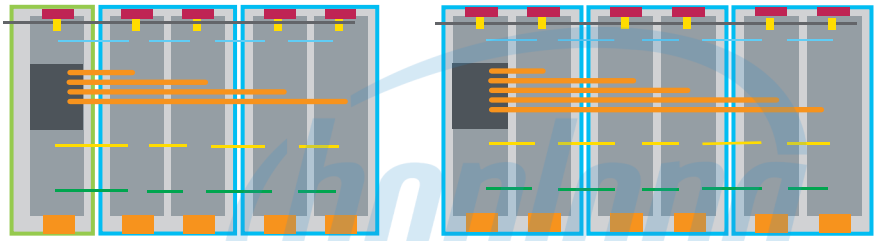
Variable speed drives
Altivar Process Modular
Architectures

Architectures (continued)

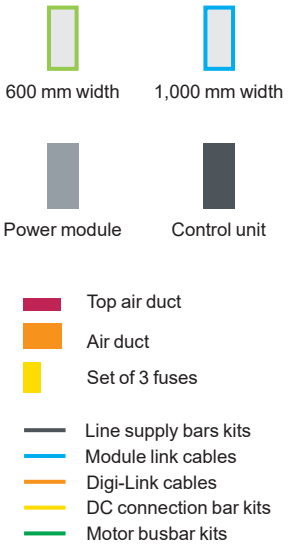
Low Harmonic/Regen drive solutions without braking - Standard architectures



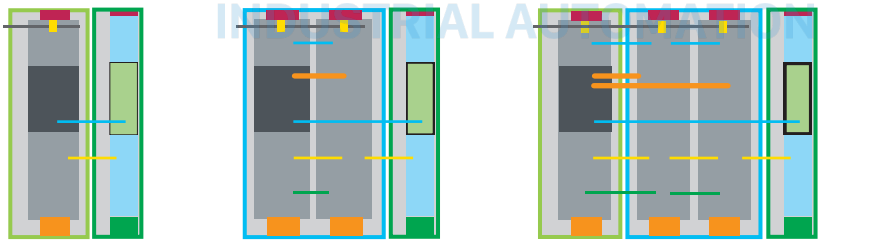
	1 x APM 600 mm width	2 x APM 1,000 mm width	3 x APM 1,600 mm width	4 x APM 2,000 mm width
380…480 V	110 to 160 kW	200 to 315 kW	355 to 500 kW	560 to 630 kW
500…690 V	75 to 200 kW	160 to 400 kW	355 to 630 kW	560 to 800 kW



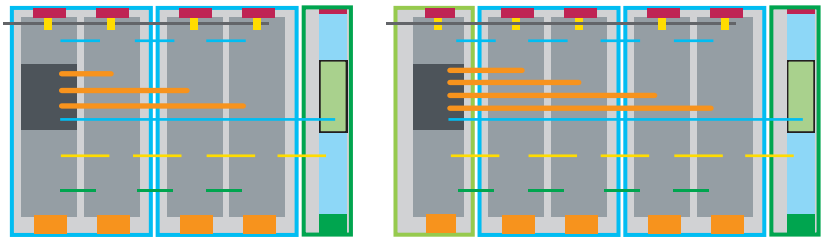
	5 x APM 2,600 mm width	6 x APM 3,000 mm width
380…480 V	710 to 800 kW	–
500…690 V	710 to 1000 kW	800 to 1200 kW



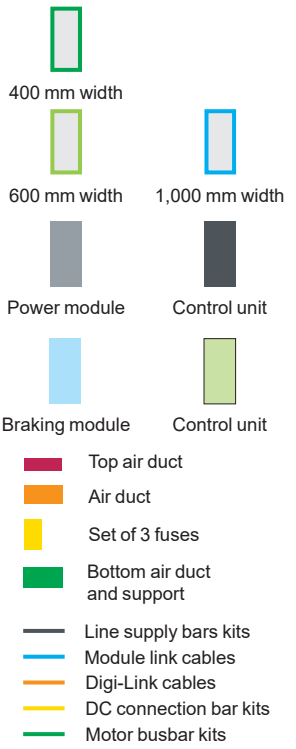
Low Harmonic/Regen drive solutions with braking - Standard architectures



	1 x APM 1 x BM 1,000 mm width	2 x APM 1 x BM 1,400 mm width	3 x APM 1 x BM 2,000 mm width
400 V	110 to 160 kW	200 to 315 kW	355 to 500 kW



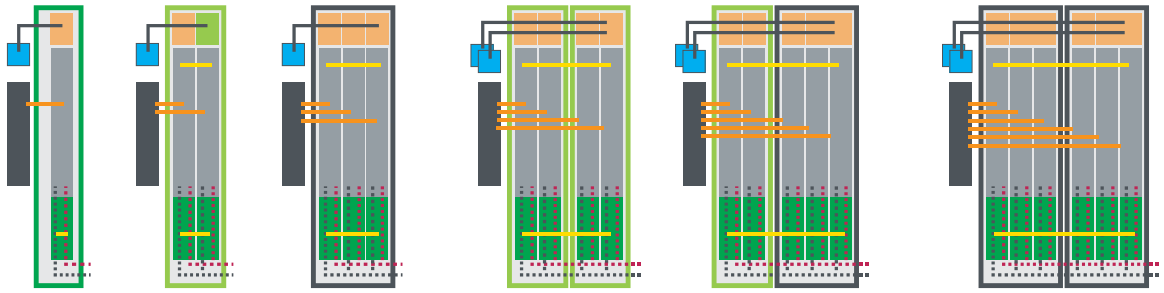
	4 x APM 1 x BM 2,400 mm width	5 x APM 1 x BM 3,000 mm width
400 V	560 to 630 kW	710 to 800 kW



Variable speed drives
Altivar Process Modular
Architectures

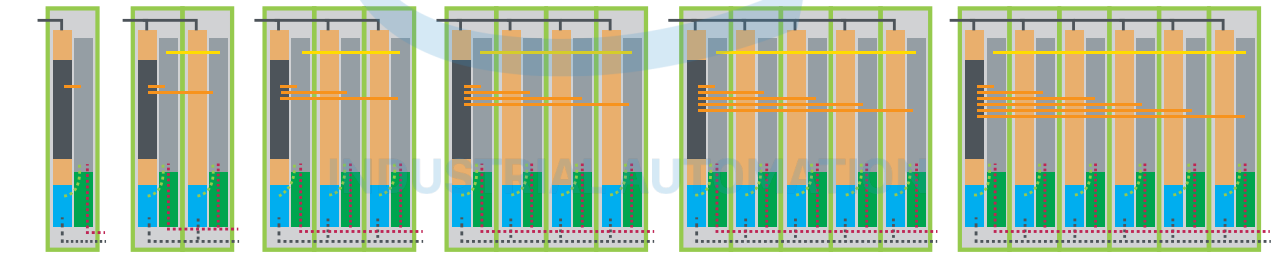
Architectures (continued)

Liquid-cooled drive solutions – Standard architectures - Compact

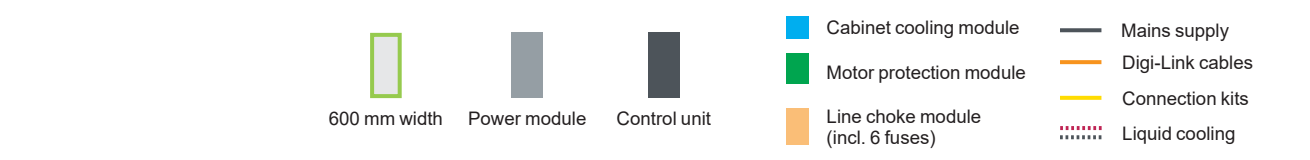


400 V	132 to 315 kW	400 to 630 kW	800 to 900 kW	1000 to 1200 kW	1500 kW	1800 kW
690 V	200 to 450 kW	560 to 900 kW	1200 to 1400 kW	1600 to 1800 kW	2200 kW	2600 kW

Liquid-cooled drive solutions – Standard architectures - Universal



400 V	132 to 315 kW	400 to 630 kW	800 to 900 kW	1000 to 1200 kW	1500 kW	1800 kW
690 V	200 to 450 kW	560 to 900 kW	1200 to 1400 kW	1600 to 1800 kW	2200 kW	2600 kW



Motor starters

Schneider Electric offers combinations of circuit breakers and contactors to be able to use Altivar Process Modular drives in optimum conditions (see page 94).

Variable speed drives
Altivar Process Modular
Drives for cabinet integration
Three-phase supply voltage: 400 V 50/60 Hz

ATVM_CP19044

ATV6A0C11Q4

ATVM_CP19049

ATV6A0C25Q4

400 V (-15...10%) IP00 Modular Standard drives *(1)*

Motor			Line supply			Altivar Process		
Power indicated on rating plate *(2)*			Line current *(3)*	Apparent power	Maximum prospective line Isc	Maximum continuous current *(2)*	Max. transient current for 60 s	Reference
			400 V	400 V				
ND:	Normal duty							
HD:	*Heavy duty*							
	kW	*HP*	A	kVA	kA	A	A	
Altivar Process Modular for fluid management								
THDi ≤ 48% at 100% load in Normal duty								
ND	110	–	198	137	50	211	232	ATV6A0C11Q4
HD	*90*	–	*167*	*116*	*50*	*173*	*260*	
ND	132	–	233	161	50	250	275	ATV6A0C13Q4
HD	*110*	–	*198*	*137*	*50*	*211*	*317*	
ND	160	–	278	193	50	302	332	ATV6A0C16Q4
HD	*132*	–	*233*	*161*	*50*	*250*	*375*	
ND	200	–	352	244	50	370	407	ATV6A0C20Q4
HD	*160*	–	*290*	*201*	*50*	*302*	*453*	
ND	250	–	432	299	50	477	525	ATV6A0C25Q4
HD	*200*	–	*353*	*245*	*50*	*370*	*555*	
ND	315	–	538	373	50	590	649	ATV6A0C31Q4
HD	*250*	–	*432*	*299*	*50*	*477*	*716*	
ND	355	–	611	423	50	660	726	ATV6A0C35Q4
HD	*280*	–	*489*	*339*	*50*	*520*	*780*	
ND	400	–	681	472	50	730	803	ATV6A0C40Q4
HD	*315*	–	*545*	*378*	*50*	*590*	*885*	
ND	450	–	764	529	50	830	913	ATV6A0C45Q4
HD	*355*	–	*611*	*423*	*50*	*660*	*990*	
ND	500	–	846	586	50	900	990	ATV6A0C50Q4
HD	*400*	–	*681*	*472*	*50*	*730*	*1095*	
ND	560	–	948	657	50	1020	1122	ATV6A0C56Q4
HD	*450*	–	*767*	*531*	*50*	*830*	*1245*	
ND	630	–	1058	733	50	1140	1254	ATV6A0C63Q4
HD	*500*	–	*849*	*588*	*50*	*900*	*1350*	
ND	710	–	1192	826	50	1260	1386	ATV6A0C71Q4
HD	*560*	–	*951*	*659*	*50*	*1020*	*1530*	
ND	800	–	1335	925	50	1420	1562	ATV6A0C80Q4
HD	*630*	–	*1061*	*735*	*50*	*1140*	*1710*	

(1) Integrated motor chokes allowing a shielded motor cable length up to 300 m/984 ft in category C3.
(2) These values are given for a nominal switching frequency of 2.5 kHz for use in continuous operation.
The switching frequency is adjustable from 2 to 4.9 kHz for all ratings.
Above 2.5 kHz, the drive will automatically reduce the switching frequency in the event of an excessive temperature rise.
For continuous operation above the nominal switching frequency, derate the nominal drive current (see the derating curves in the Integration Manual PHA2451702).
(3) Typical value for the indicated motor power and for the maximum prospective line Isc.

Note: *Altivar Process Modular Standard drives can be designed as Reduced Height versions for integration in 1.6 m/5.25 ft cabinets.*

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Configuration and runtime tools: page 28
Combinations: page 80
Dimensions: page 20

Variable speed drives
Altivar Process Modular
Drives for cabinet integration
Three-phase supply voltage: 400 V 50/60 Hz

ATVM_CP19044

ATV9A0C16Q4

ATVM_CP19049

ATV9A0C20Q4

400 V (-15...10%) IP00 Modular Standard drives (continued) *(1)*

Motor			Line supply			Altivar Process		
Power indicated on rating plate *(2)*			Line current *(3)*	Apparent power	Maximum prospective line Isc	Maximum continuous current *(2)*	Max. transient current for 60 s	Reference
			400 V	400 V				
ND:	Normal duty							
HD:	*Heavy duty*							
	kW	*HP*	A	kVA	kA	A	A	
Altivar Process Modular for demanding applications								
THDi ≤ 48% at 100% load in Normal duty								
ND	110	–	198	135	50	211	253	ATV9A0C11Q4
HD	*90*	–	*167*	*114*	*50*	*173*	*260*	
ND	132	–	233	161	50	250	300	ATV9A0C13Q4
HD	*110*	–	*198*	*136*	*50*	*211*	*317*	
ND	160	–	278	192	50	302	362	ATV9A0C16Q4
HD	*132*	–	*233*	*161*	*50*	*250*	*375*	
ND	200	–	352	242	50	370	444	ATV9A0C20Q4
HD	*160*	–	*290*	*198*	*50*	*302*	*453*	
ND	250	–	432	299	50	477	572	ATV9A0C25Q4
HD	*200*	–	*353*	*245*	*50*	*370*	*555*	
ND	315	–	538	373	50	590	708	ATV9A0C31Q4
HD	*250*	–	*432*	*299*	*50*	*477*	*716*	
ND	355	–	611	423	50	660	792	ATV9A0C35Q4
HD	*280*	–	*489*	*339*	*50*	*520*	*780*	
ND	400	–	681	472	50	730	876	ATV9A0C40Q4
HD	*315*	–	*545*	*378*	*50*	*590*	*885*	
ND	450	–	764	529	50	830	996	ATV9A0C45Q4
HD	*355*	–	*611*	*423*	*50*	*660*	*990*	
ND	500	–	846	586	50	900	1080	ATV9A0C50Q4
HD	*400*	–	*681*	*472*	*50*	*730*	*1095*	
ND	560	–	948	657	50	1020	1224	ATV9A0C56Q4
HD	*450*	–	*767*	*531*	*50*	*830*	*1245*	
ND	630	–	1058	733	50	1140	1368	ATV9A0C63Q4
HD	*500*	–	*849*	*588*	*50*	*900*	*1350*	
ND	710	–	1192	826	50	1260	1512	ATV9A0C71Q4
HD	*560*	–	*951*	*659*	*50*	*1020*	*1530*	
ND	800	–	1335	925	50	1420	1704	ATV9A0C80Q4
HD	*630*	–	*1061*	*735*	*50*	*1140*	*1710*	

(1) Integrated motor chokes allowing a shielded motor cable length up to 300 m/984 ft in category C3.
(2) These values are given for a nominal switching frequency of 2.5 kHz for use in continuous operation.
The switching frequency is adjustable from 2 to 4.9 kHz for all ratings.
Above 2.5 kHz, the drive will automatically reduce the switching frequency in the event of an excessive temperature rise.
For continuous operation above the nominal switching frequency, derate the nominal drive current (see the derating curves in the Integration Manual PHA2451702).
(3) Typical value for the indicated motor power and for the maximum prospective line Isc.

Note: *Altivar Process Modular Standard drives can be designed as Reduced Height versions for integration in 1.6 m/5.25 ft cabinets.*

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Variable speed drives
Altivar Process Modular
Drives for cabinet integration
Three-phase supply voltage: 440 V 50/60 Hz

ATV6A0C20R4

ATV6A0C35R4

440 V (-15...10%) IP00 Modular Standard drives *(1)*

Motor			Line supply			Altivar Process		
Power indicated on rating plate *(2)*			Line current *(3)*	Apparent power	Maximum prospective line Isc	Maximum continuous current *(2)*	Max. transient current for 60 s	Reference
			440 V	440 V				
ND:	Normal duty							
HD:	*Heavy duty*							
	kW	*HP*	A	kVA	kA	A	A	
Altivar Process Modular for fluid management								
THDi ≤ 48% at 100% load in Normal duty								
ND	110	–	183	139	50	211	232	ATV6A0C11R4
HD	*90*	–	*155*	*118*	*50*	*173*	*260*	
ND	132	–	214	163	50	250	275	ATV6A0C13R4
HD	*110*	–	*183*	*139*	*50*	*211*	*317*	
ND	160	–	255	194	50	302	332	ATV6A0C16R4
HD	*132*	–	*214*	*163*	*50*	*250*	*375*	
ND	160	–	325	248	50	370	407	ATV6A0C20R4
HD	*160*	–	*269*	*205*	*50*	*302*	*453*	
ND	250	–	396	302	50	477	525	ATV6A0C25R4
HD	*200*	–	*325*	*248*	*50*	*370*	*555*	
ND	315	–	493	376	50	590	649	ATV6A0C31R4
HD	*250*	–	*396*	*302*	*50*	*477*	*716*	
ND	355	–	559	426	50	660	726	ATV6A0C35R4
HD	*280*	–	*450*	*343*	*50*	*520*	*780*	
ND	400	–	623	475	50	730	803	ATV6A0C40R4
HD	*315*	–	*501*	*382*	*50*	*590*	*885*	
ND	450	–	697	531	50	830	913	ATV6A0C45R4
HD	*355*	–	*559*	*426*	*50*	*660*	*990*	
ND	500	–	771	588	50	900	990	ATV6A0C50R4
HD	*400*	–	*623*	*475*	*50*	*730*	*1095*	
ND	560	–	865	659	50	1020	1122	ATV6A0C56R4
HD	*450*	–	*703*	*536*	*50*	*830*	*1245*	
ND	630	–	965	735	50	1140	1254	ATV6A0C63R4
HD	*500*	–	*776*	*591*	*50*	*900*	*1350*	
ND	710	–	1087	828	50	1260	1386	ATV6A0C71R4
HD	*580*	–	*869*	*662*	*50*	*1020*	*1530*	
ND	800	–	1216	927	50	1420	1562	ATV6A0C80R4
HD	*630*	–	*968*	*738*	*50*	*1140*	*1710*	

(1) Integrated motor chokes allowing a shielded motor cable length up to 300 m/984 ft in category C3.
(2) These values are given for a nominal switching frequency of 2.5 kHz for use in continuous operation.
The switching frequency is adjustable from 2 to 4.9 kHz for all ratings.
Above 2.5 kHz, the drive will automatically reduce the switching frequency in the event of an excessive temperature rise.
For continuous operation above the nominal switching frequency, derate the nominal drive current (see the derating curves in the Integration Manual PHA2451702).
(3) Typical value for the indicated motor power and for the maximum prospective line Isc.

Note: *Altivar Process Modular Standard drives can be designed as Reduced Height versions for integration in 1.6 m/5.25 ft cabinets.*

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Variable speed drives
Altivar Process Modular
Drives for cabinet integration
Three-phase supply voltage: 440 V 50/60 Hz


ATV9A0C31R4


ATV9A0C40R4

440 V (-15...10%) IP00 Modular Standard drives (continued) *(1)*

Motor			Line supply			Altivar Process		
Power indicated on rating plate *(2)*			Line current *(3)*	Apparent power	Maximum prospective line Isc	Maximum continuous current *(2)*	Max. transient current for 60 s	Reference
			440 V	440 V				
ND:	Normal duty							
HD:	*Heavy duty*							
	kW	*HP*	A	kVA	kA	A	A	
Altivar Process Modular for demanding applications								
THDi ≤ 48% at 100% load in Normal duty								
ND	110	–	183	136	50	211	253	ATV9A0C11R4
HD	*90*	–	*155*	*115*	*50*	*173*	*260*	
ND	132	–	214	162	50	250	300	ATV9A0C13R4
HD	*110*	–	*183*	*138*	*50*	*211*	*317*	
ND	160	–	255	194	50	302	362	ATV9A0C16R4
HD	*132*	–	*214*	*162*	*50*	*250*	*375*	
ND	160	–	325	245	50	370	444	ATV9A0C20R4
HD	*160*	–	*269*	*201*	*50*	*302*	*453*	
ND	250	–	396	302	50	477	572	ATV9A0C25R4
HD	*200*	–	*325*	*248*	*50*	*370*	*555*	
ND	315	–	493	376	50	590	708	ATV9A0C31R4
HD	*250*	–	*396*	*302*	*50*	*477*	*716*	
ND	355	–	559	426	50	660	792	ATV9A0C35R4
HD	*280*	–	*450*	*343*	*50*	*520*	*780*	
ND	400	–	623	475	50	730	876	ATV9A0C40R4
HD	*315*	–	*501*	*382*	*50*	*590*	*885*	
ND	450	–	697	531	50	830	996	ATV9A0C45R4
HD	*355*	–	*559*	*426*	*50*	*660*	*990*	
ND	500	–	771	588	50	900	1080	ATV9A0C50R4
HD	*400*	–	*623*	*475*	*50*	*730*	*1095*	
ND	560	–	865	659	50	1020	1224	ATV9A0C56R4
HD	*450*	–	*703*	*536*	*50*	*830*	*1245*	
ND	630	–	965	735	50	1140	1368	ATV9A0C63R4
HD	*500*	–	*776*	*591*	*50*	*900*	*1350*	
ND	710	–	1087	828	50	1260	1512	ATV9A0C71R4
HD	*580*	–	*869*	*662*	*50*	*1020*	*1530*	
ND	800	–	1216	927	50	1420	1704	ATV9A0C80R4
HD	*630*	–	*968*	*738*	*50*	*1140*	*1710*	

(1) Integrated motor chokes allowing a shielded motor cable length up to 300 m/984 ft in category C3.
(2) These values are given for a nominal switching frequency of 2.5 kHz for use in continuous operation.
The switching frequency is adjustable from 2 to 4.9 kHz for all ratings.
Above 2.5 kHz, the drive will automatically reduce the switching frequency in the event of an excessive temperature rise.
For continuous operation above the nominal switching frequency, derate the nominal drive current (see the derating curves in the Integration Manual PHA2451702).
(3) Typical value for the indicated motor power and for the maximum prospective line Isc.

Note: *Altivar Process Modular Standard drives can be designed as Reduced Height versions for integration in 1.6 m/5.25 ft cabinets.*

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Variable speed drives
Altivar Process Modular
Drives for cabinet integration
Three-phase supply voltage: 480 V 50/60 Hz

ATVM_OP19051

ATV6A0C56T4

ATVM_OP19052

ATV6A0C80T4

480 V (-15...10%) IP00 Modular Standard drives *(1)*

Motor			Line supply			Altivar Process		
Power indicated on rating plate *(2)*			Line current *(3)*	Apparent power	Maximum prospective line Isc	Maximum continuous current *(2)*	Max. transient current for 60 s	Reference
			480 V	480 V				
ND:	Normal duty							
HD:	*Heavy duty*							
	kW	*HP*	A	kVA	kA	A	A	
Altivar Process Modular for fluid management								
THDi ≤ 48% at 100% load in Normal duty								
ND	–	*150*	168	140	50	211	232	ATV6A0C11T4
HD	–	*125*	*145*	*121*	*50*	*173*	*260*	
ND	–	*200*	218	181	50	250	275	ATV6A0C13T4
HD	–	*150*	*168*	*140*	*50*	*211*	*317*	
ND	–	*250*	268	223	50	302	332	ATV6A0C16T4
HD	–	*200*	*218*	*181*	*50*	*250*	*375*	
ND	–	*300*	328	273	50	370	407	ATV6A0C20T4
HD	–	*250*	*280*	*233*	*50*	*302*	*453*	
ND	–	*400*	427	355	50	477	525	ATV6A0C25T4
HD	–	*300*	*328*	*273*	*50*	*370*	*555*	
ND	–	*500*	528	439	50	590	649	ATV6A0C31T4
HD	–	*400*	*427*	*355*	*50*	*477*	*716*	
ND	–	*550*	586	487	50	660	726	ATV6A0C35T4
HD	–	*450*	*486*	*404*	*50*	*520*	*780*	
ND	–	*600*	634	527	50	730	803	ATV6A0C40T4
HD	–	*500*	*536*	*446*	*50*	*590*	*885*	
ND	–	*650*	685	569	50	830	913	ATV6A0C45T4
HD	–	*550*	*586*	*487*	*50*	*660*	*990*	
ND	–	*700*	736	612	50	900	990	ATV6A0C50T4
HD	–	*600*	*634*	*527*	*50*	*730*	*1095*	
ND	–	*800*	842	700	50	1020	1122	ATV6A0C56T4
HD	–	*650*	*690*	*574*	*50*	*830*	*1245*	
ND	–	*900*	939	781	50	1140	1254	ATV6A0C63T4
HD	–	*700*	*740*	*615*	*50*	*900*	*1350*	
ND	–	*1000*	1044	868	50	1260	1386	ATV6A0C71T4
HD	–	*800*	*846*	*703*	*50*	*1020*	*1530*	
ND	–	*1100*	1146	953	50	1420	1562	ATV6A0C80T4
HD	–	*900*	*942*	*783*	*50*	*1140*	*1710*	

(1) Integrated motor chokes allowing a shielded motor cable length up to 300 m/984 ft in category C3.
(2) These values are given for a nominal switching frequency of 2.5 kHz for use in continuous operation.
The switching frequency is adjustable from 2 to 4.9 kHz for all ratings.
Above 2.5 kHz, the drive will automatically reduce the switching frequency in the event of an excessive temperature rise.
For continuous operation above the nominal switching frequency, derate the nominal drive current (see the derating curves in the Integration Manual PHA2451702).
(3) Typical value for the indicated motor power and for the maximum prospective line Isc.

Note: *Altivar Process Modular Standard drives can be designed as Reduced Height versions for integration in 1.6 m/5.25 ft cabinets.*

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Variable speed drives
Altivar Process Modular
Drives for cabinet integration
Three-phase supply voltage: 480 V 50/60 Hz

ATVM_OP19051

ATV9A0C63T4

ATVM_OP19052

ATV9A0C80T4

480 V (-15...10%) IP00 Modular Standard drives (continued) *(1)*

Motor			Line supply			Altivar Process		
Power indicated on rating plate *(2)*			Line current *(3)*	Apparent power	Maximum prospective line Isc	Maximum continuous current *(2)*	Max. transient current for 60 s	Reference
			480 V	480 V				
ND:	Normal duty							
HD:	*Heavy duty*							
	kW	*HP*	A	kVA	kA	A	A	
Altivar Process Modular for demanding applications								
THDi ≤ 48% at 100% load in Normal duty								
ND	–	*150*	168	138	50	211	253	ATV9A0C11T4
HD	–	*125*	*145*	*118*	*50*	*173*	*260*	
ND	–	*200*	218	180	50	250	300	ATV9A0C13T4
HD	–	*150*	*168*	*140*	*50*	*211*	*317*	
ND	–	*250*	268	223	50	302	362	ATV9A0C16T4
HD	–	*200*	*218*	*180*	*50*	*250*	*375*	
ND	–	*300*	328	271	50	370	444	ATV9A0C20T4
HD	–	*250*	*280*	*230*	*50*	*302*	*453*	
ND	–	*400*	427	355	50	477	572	ATV9A0C25T4
HD	–	*300*	*328*	*273*	*50*	*370*	*555*	
ND	–	*500*	528	439	50	590	708	ATV9A0C31T4
HD	–	*400*	*427*	*355*	*50*	*477*	*716*	
ND	–	*550*	586	487	50	660	792	ATV9A0C35T4
HD	–	*450*	*486*	*404*	*50*	*520*	*780*	
ND	–	*600*	634	527	50	730	876	ATV9A0C40T4
HD	–	*500*	*536*	*446*	*50*	*590*	*885*	
ND	–	*650*	685	569	50	830	996	ATV9A0C45T4
HD	–	*550*	*586*	*487*	*50*	*660*	*990*	
ND	–	*700*	736	612	50	900	1080	ATV9A0C50T4
HD	–	*600*	*634*	*527*	*50*	*730*	*1095*	
ND	–	*800*	842	700	50	1020	1224	ATV9A0C56T4
HD	–	*650*	*690*	*574*	*50*	*830*	*1245*	
ND	–	*900*	939	781	50	1140	1368	ATV9A0C63T4
HD	–	*700*	*740*	*615*	*50*	*900*	*1350*	
ND	–	*1000*	1044	868	50	1260	1512	ATV9A0C71T4
HD	–	*800*	*846*	*703*	*50*	*1020*	*1530*	
ND	–	*1100*	1146	953	50	1420	1704	ATV9A0C80T4
HD	–	*900*	*942*	*783*	*50*	*1140*	*1710*	

(1) Integrated motor chokes allowing a shielded motor cable length up to 300 m/984 ft in category C3.
(2) These values are given for a nominal switching frequency of 2.5 kHz for use in continuous operation.
The switching frequency is adjustable from 2 to 4.9 kHz for all ratings.
Above 2.5 kHz, the drive will automatically reduce the switching frequency in the event of an excessive temperature rise.
For continuous operation above the nominal switching frequency, derate the nominal drive current (see the derating curves in the Integration Manual PHA2451702).
(3) Typical value for the indicated motor power and for the maximum prospective line Isc.

***Note:** Altivar Process Modular Standard drives can be designed as Reduced Height versions for integration in 1.6 m/5.25 ft cabinets.*

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Variable speed drives
Altivar Process Modular
Drives for cabinet integration
Three-phase supply voltage: 500 V 50/60 Hz

ATV6A0C11N6

ATV6A0C25N6

500 V (-10...15%) IP00 Modular Standard drives *(1)*

Motor			Line supply			Altivar Process		
Power indicated on rating plate *(2)*			Line current *(3)*	Apparent power	Maximum prospective line Isc	Maximum continuous current *(2)*	Max. transient current for 60 s	Reference
			500 V	500 V				
ND:	Normal duty							
HD:	*Heavy duty*							
	kW	*HP*	A	kVA	kA	A	A	
Altivar Process Modular for fluid management								
THDi ≤ 48% at 100% load in Normal duty								
ND	*75*	–	110	95	50	125	138	ATV6A0C11N6
HD	*55*	–	*83*	*72*	*50*	*105*	*158*	
ND	*90*	–	129	112	50	145	160	ATV6A0C13N6
HD	*75*	–	*110*	*95*	*50*	*125*	*188*	
ND	*110*	–	154	133	50	175	193	ATV6A0C16N6
HD	*90*	–	*129*	*112*	*50*	*145*	*218*	
ND	*132*	–	183	158	50	215	237	ATV6A0C20N6
HD	*110*	–	*154*	*133*	*50*	*175*	*263*	
ND	*160*	–	225	195	50	275	303	ATV6A0C25N6
HD	*132*	–	*190*	*165*	*50*	*215*	*323*	
ND	*220*	–	303	262	50	340	374	ATV6A0C31N6
HD	*160*	–	*225*	*195*	*50*	*275*	*413*	
ND	*280*	–	380	329	50	425	468	ATV6A0C40N6
HD	*220*	–	*303*	*262*	*50*	*340*	*510*	
ND	*355*	–	484	419	50	520	572	ATV6A0C50N6
HD	*280*	–	*385*	*333*	*50*	*425*	*638*	
ND	*450*	–	607	526	50	650	715	ATV6A0C63N6
HD	*355*	–	*484*	*419*	*50*	*520*	*780*	
ND	*560*	–	756	655	50	830	913	ATV6A0C80N6
HD	*450*	–	*610*	*528*	*50*	*650*	*975*	
ND	*710*	–	954	826	50	1030	1133	ATV6A0M10N6
HD	*560*	–	*758*	*656*	*50*	*830*	*1245*	
ND	*800*	–	1070	927	50	1230	1353	ATV6A0M12N6
HD	*710*	–	*954*	*826*	*50*	*1030*	*1545*	

(1) Integrated motor chokes allowing a shielded motor cable length up to 300 m/984 ft in category C3.
(2) These values are given for a nominal switching frequency of 2.5 kHz for use in continuous operation.
The switching frequency is adjustable from 2 to 4.9 kHz for all ratings.
Above 2.5 kHz, the drive will automatically reduce the switching frequency in the event of an excessive temperature rise.
For continuous operation above the nominal switching frequency, derate the nominal drive current (see the derating curves in the Integration Manual PHA2451702).
(3) Typical value for the indicated motor power and for the maximum prospective line Isc.

Note: *Altivar Process Modular Standard drives can be designed as Reduced Height versions for integration in 1.6 m/5.25 ft cabinets.*

Variable speed drives
Altivar Process Modular
Drives for cabinet integration
Three-phase supply voltage: 500 V 50/60 Hz

ATV9A0C11N6

ATV9A0C25N6

500 V (-10...15%) IP00 Modular Standard drives (continued) *(1)*

Motor			Line supply			Altivar Process		
Power indicated on rating plate *(2)*			Line current *(3)*	Apparent power	Maximum prospective line Isc	Maximum continuous current *(2)*	Max. transient current for 60 s	Reference
			500 V	500 V				
ND:	Normal duty							
HD:	*Heavy duty*							
	kW	*HP*	A	kVA	kA	A	A	
Altivar Process Modular for demanding applications								
THDi ≤ 48% at 100% load in Normal duty								
ND	*75*	–	110	95	50	125	150	ATV9A0C11N6
HD	*55*	–	*83*	*72*	*50*	*105*	*158*	
ND	*90*	–	129	112	50	145	174	ATV9A0C13N6
HD	*75*	–	*110*	*95*	*50*	*125*	*188*	
ND	*110*	–	154	133	50	175	210	ATV9A0C16N6
HD	*90*	–	*129*	*112*	*50*	*145*	*218*	
ND	*132*	–	183	158	50	215	258	ATV9A0C20N6
HD	*110*	–	*154*	*133*	*50*	*175*	*263*	
ND	*160*	–	225	195	50	275	330	ATV9A0C25N6
HD	*132*	–	*190*	*165*	*50*	*215*	*323*	
ND	*220*	–	303	262	50	340	408	ATV9A0C31N6
HD	*160*	–	*225*	*195*	*50*	*275*	*413*	
ND	*280*	–	380	329	50	425	510	ATV9A0C40N6
HD	*220*	–	*303*	*262*	*50*	*340*	*510*	
ND	*355*	–	484	419	50	520	624	ATV9A0C50N6
HD	*280*	–	*385*	*333*	*50*	*425*	*638*	
ND	*450*	–	607	526	50	650	780	ATV9A0C63N6
HD	*355*	–	*484*	*419*	*50*	*520*	*780*	
ND	*560*	–	756	655	50	830	996	ATV9A0C80N6
HD	*450*	–	*610*	*528*	*50*	*650*	*975*	
ND	*710*	–	954	826	50	1030	1236	ATV9A0M10N6
HD	*560*	–	*758*	*656*	*50*	*830*	*1245*	
ND	*800*	–	1070	927	50	1230	1476	ATV9A0M12N6
HD	*710*	–	*954*	*826*	*50*	*1030*	*1545*	

(1) Integrated motor chokes allowing a shielded motor cable length up to 300 m/984 ft in category C3.
(2) These values are given for a nominal switching frequency of 2.5 kHz for use in continuous operation.
The switching frequency is adjustable from 2 to 4.9 kHz for all ratings.
Above 2.5 kHz, the drive will automatically reduce the switching frequency in the event of an excessive temperature rise.
For continuous operation above the nominal switching frequency, derate the nominal drive current (see the derating curves in the Integration Manual PHA2451702).
(3) Typical value for the indicated motor power and for the maximum prospective line Isc.

Note: *Altivar Process Modular Standard drives can be designed as Reduced Height versions for integration in 1.6 m/5.25 ft cabinets.*

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Variable speed drives
Altivar Process Modular
Drives for cabinet integration
Three-phase supply voltage: 600 V 50/60 Hz


ATVM_OP19050

ATV6A0C50T6


ATVM_OP19051

ATV6A0C80T6

600 V (-15...10%) IP00 Modular Standard drives *(1)*

Motor			Line supply			Altivar Process		
Power indicated on rating plate *(2)*			Line current *(3)*	Apparent power	Maximum prospective line Isc *(4)*	Maximum continuous current *(2)*	Max. transient current for 60 s	Reference
			600 V	600 V				
ND:	Normal duty							
HD:	*Heavy duty*							
	kW	*HP*	A	kVA	kA	A	A	
Altivar Process Modular for fluid management								
THDi ≤ 48% at 100% load in Normal duty								
ND	–	*125*	112	116	50	125	138	ATV6A0C11T6
HD	–	*100*	*92*	*96*	*50*	*105*	*158*	
ND	–	*150*	131	136	50	145	160	ATV6A0C13T6
HD	–	*125*	*112*	*116*	*50*	*125*	*188*	
ND	–	*175*	152	158	50	175	193	ATV6A0C16T6
HD	–	*150*	*131*	*136*	*50*	*145*	*218*	
ND	–	*200*	172	179	50	215	237	ATV6A0C20T6
HD	–	*175*	*152*	*158*	*50*	*175*	*263*	
ND	–	*250*	218	227	50	275	303	ATV6A0C25T6
HD	–	*200*	*179*	*186*	*50*	*215*	*323*	
ND	–	*350*	298	310	50	340	374	ATV6A0C31T6
HD	–	*250*	*218*	*227*	*50*	*275*	*413*	
ND	–	*450*	379	394	50	425	468	ATV6A0C40T6
HD	–	*350*	*298*	*310*	*50*	*340*	*510*	
ND	–	*550*	464	482	50	520	572	ATV6A0C50T6
HD	–	*450*	*383*	*398*	*50*	*425*	*638*	
ND	–	*650*	544	565	50	650	715	ATV6A0C63T6
HD	–	*550*	*464*	*482*	*50*	*520*	*780*	
ND	–	*800*	670	696	50	830	913	ATV6A0C80T6
HD	–	*650*	*547*	*568*	*50*	*650*	*975*	
ND	–	*1000*	833	866	50	1030	1133	ATV6A0M10T6
HD	–	*800*	*673*	*699*	*50*	*830*	*1245*	
ND	–	*1200*	994	1033	50	1230	1353	ATV6A0M12T6
HD	–	*1000*	*835*	*835*	*50*	*1030*	*1545*	

(1) Integrated motor chokes allowing a shielded motor cable length up to 300 m/984 ft in category C3.
(2) These values are given for a nominal switching frequency of 2.5 kHz for use in continuous operation.
The switching frequency is adjustable from 2 to 4.9 kHz for all ratings.
Above 2.5 kHz, the drive will automatically reduce the switching frequency in the event of an excessive temperature rise.
For continuous operation above the nominal switching frequency, derate the nominal drive current (see the derating curves in the Integration Manual PHA2451702).
(3) Typical value for the indicated motor power and for the maximum prospective line Isc.
(4) For 600V UL certified drives, a higher SCCR is possible under some conditions. Please refer to the Integration Manual PHA2451702 for more details.

***Note:** Altivar Process Modular Standard drives can be designed as Reduced Height versions for integration in 1.6 m/5.25 ft cabinets.*

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Variable speed drives
Altivar Process Modular
Drives for cabinet integration
Three-phase supply voltage: 600 V 50/60 Hz

ATV9A0C50T6

ATV9A0C80T6

600 V (-15...10%) IP00 Modular Standard drives (continued) *(1)*

Motor			Line supply			Altivar Process		
Power indicated on rating plate *(2)*			Line current *(3)*	Apparent power	Maximum prospective line Isc *(4)*	Maximum continuous current *(2)*	Max. transient current for 60 s	Reference
			600 V	600 V				
ND:	Normal duty							
HD:	*Heavy duty*							
	kW	*HP*	A	kVA	kA	A	A	
Altivar Process Modular for demanding applications								
THDi ≤ 48% at 100% load in Normal duty								
ND	–	*125*	112	116	50	125	150	ATV9A0C11T6
HD	–	*100*	*92*	*96*	*50*	*105*	*158*	
ND	–	*150*	131	136	50	145	174	ATV9A0C13T6
HD	–	*125*	*112*	*116*	*50*	*125*	*188*	
ND	–	*175*	152	158	50	175	210	ATV9A0C16T6
HD	–	*150*	*131*	*136*	*50*	*145*	*218*	
ND	–	*200*	172	179	50	215	258	ATV9A0C20T6
HD	–	*175*	*152*	*158*	*50*	*175*	*263*	
ND	–	*250*	218	227	50	275	330	ATV9A0C25T6
HD	–	*200*	*179*	*186*	*50*	*215*	*323*	
ND	–	*350*	298	310	50	340	408	ATV9A0C31T6
HD	–	*250*	*218*	*227*	*50*	*275*	*413*	
ND	–	*450*	379	394	50	425	510	ATV9A0C40T6
HD	–	*350*	*298*	*310*	*50*	*340*	*510*	
ND	–	*550*	464	482	50	520	624	ATV9A0C50T6
HD	–	*450*	*383*	*398*	*50*	*425*	*638*	
ND	–	*650*	544	565	50	650	780	ATV9A0C63T6
HD	–	*550*	*464*	*482*	*50*	*520*	*780*	
ND	–	*800*	670	696	50	830	996	ATV9A0C80T6
HD	–	*650*	*547*	*568*	*50*	*650*	*975*	
ND	–	*1000*	833	866	50	1030	1236	ATV9A0M10T6
HD	–	*800*	*673*	*699*	*50*	*830*	*1245*	
ND	–	*1200*	994	1033	50	1230	1476	ATV9A0M12T6
HD	–	*1000*	*835*	*835*	*50*	*1030*	*1545*	

(1) Integrated motor chokes allowing a shielded motor cable length up to 300 m/984 ft in category C3.
(2) These values are given for a nominal switching frequency of 2.5 kHz for use in continuous operation.
The switching frequency is adjustable from 2 to 4.9 kHz for all ratings.
Above 2.5 kHz, the drive will automatically reduce the switching frequency in the event of an excessive temperature rise.
For continuous operation above the nominal switching frequency, derate the nominal drive current (see the derating curves in the Integration Manual PHA2451702).
(3) Typical value for the indicated motor power and for the maximum prospective line Isc.
(4) For 600V UL certified drives, a higher SCCR is possible under some conditions. Please refer to the Integration Manual PHA2451702 for more details.

***Note:** Altivar Process Modular Standard drives can be designed as Reduced Height versions for integration in 1.6 m/5.25 ft cabinets.*

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Variable speed drives
Altivar Process Modular
Drives for cabinet integration
Three-phase supply voltage: 690 V 50/60 Hz

ATVM_OP19062

ATV6A0M10Q6

ATVM_OP19053

ATV6A0M12Q6

690 V (-15...10%) IP00 Modular Standard drives *(1)*

Motor			Line supply			Altivar Process		
Power indicated on rating plate *(2)*			Line current *(3)*	Apparent power	Maximum prospective line Isc	Maximum continuous current *(2)*	Max. transient current for 60 s	Reference
			690 V	690 V				
ND:	Normal duty							
HD:	*Heavy duty*							
	kW	*HP*	A	kVA	kA	A	A	
Altivar Process Modular for fluid management								
THDi ≤ 48% at 100% load in Normal duty								
ND	*110*	–	118	141	50	125	138	ATV6A0C11Q6
HD	*90*	–	*100*	*120*	*50*	*105*	*158*	
ND	*132*	–	138	165	50	145	160	ATV6A0C13Q6
HD	*110*	–	*118*	*141*	*50*	*125*	*188*	
ND	*160*	–	163	195	50	175	193	ATV6A0C16Q6
HD	*132*	–	*138*	*165*	*50*	*145*	*218*	
ND	*200*	–	200	239	50	215	237	ATV6A0C20Q6
HD	*160*	–	*163*	*195*	*50*	*175*	*263*	
ND	*250*	–	255	305	50	275	303	ATV6A0C25Q6
HD	*200*	–	*211*	*252*	*50*	*215*	*323*	
ND	*315*	–	316	378	50	340	374	ATV6A0C31Q6
HD	*250*	–	*255*	*305*	*50*	*275*	*413*	
ND	*400*	–	394	471	50	425	468	ATV6A0C40Q6
HD	*315*	–	*316*	*378*	*50*	*340*	*510*	
ND	*500*	–	495	592	50	520	572	ATV6A0C50Q6
HD	*400*	–	*401*	*479*	*50*	*425*	*638*	
ND	*630*	–	615	735	50	650	715	ATV6A0C63Q6
HD	*500*	–	*495*	*592*	*50*	*520*	*780*	
ND	*800*	–	776	927	50	830	913	ATV6A0C80Q6
HD	*630*	–	*619*	*740*	*50*	*650*	*975*	
ND	*1000*	–	969	1158	50	1030	1133	ATV6A0M10Q6
HD	*800*	–	*779*	*931*	*50*	*830*	*1245*	
ND	*1200*	–	1161	1388	50	1230	1353	ATV6A0M12Q6
HD	*1000*	–	*971*	*1160*	*50*	*1030*	*1545*	

(1) Integrated motor chokes allowing a shielded motor cable length up to 300 m/984 ft in category C3.
(2) These values are given for a nominal switching frequency of 2.5 kHz for use in continuous operation.
The switching frequency is adjustable from 2 to 4.9 kHz for all ratings.
Above 2.5 kHz, the drive will automatically reduce the switching frequency in the event of an excessive temperature rise.
For continuous operation above the nominal switching frequency, derate the nominal drive current (see the derating curves in the Integration Manual PHA2451702).
(3) Typical value for the indicated motor power and for the maximum prospective line Isc.

Note: *Altivar Process Modular Standard drives can be designed as Reduced Height versions for integration in 1.6 m/5.25 ft cabinets.*

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Variable speed drives
Altivar Process Modular
Drives for cabinet integration
Three-phase supply voltage: 690 V 50/60 Hz

ATVM_OP19052

ATV9A0M10Q6

ATVM_OP19053

ATV9A0M12Q6

690 V (-15...10%) IP00 Modular Standard drives (continued) *(1)*

Motor			Line supply			Altivar Process		
Power indicated on rating plate *(2)*			Line current *(3)*	Apparent power	Maximum prospective line Isc	Maximum continuous current *(2)*	Max. transient current for 60 s	Reference
			690 V	690 V				
ND:	Normal duty							
HD:	*Heavy duty*							
	kW	*HP*	A	kVA	kA	A	A	
Altivar Process Modular for demanding applications								
THDi ≤ 48% at 100% load in Normal duty								
ND	*110*	–	118	141	50	125	150	ATV9A0C11Q6
HD	*90*	–	*100*	*120*	*50*	*105*	*158*	
ND	*132*	–	138	165	50	145	174	ATV9A0C13Q6
HD	*110*	–	*118*	*141*	*50*	*125*	*188*	
ND	*160*	–	163	195	50	175	210	ATV9A0C16Q6
HD	*132*	–	*138*	*165*	*50*	*145*	*218*	
ND	*200*	–	200	239	50	215	258	ATV9A0C20Q6
HD	*160*	–	*163*	*195*	*50*	*175*	*263*	
ND	*250*	–	255	305	50	275	330	ATV9A0C25Q6
HD	*200*	–	*211*	*252*	*50*	*215*	*323*	
ND	*315*	–	316	378	50	340	408	ATV9A0C31Q6
HD	*250*	–	*255*	*305*	*50*	*275*	*413*	
ND	*400*	–	394	471	50	425	510	ATV9A0C40Q6
HD	*315*	–	*316*	*378*	*50*	*340*	*510*	
ND	*500*	–	495	592	50	520	624	ATV9A0C50Q6
HD	*400*	–	*401*	*479*	*50*	*425*	*638*	
ND	*630*	–	615	735	50	650	780	ATV9A0C63Q6
HD	*500*	–	*495*	*592*	*50*	*520*	*780*	
ND	*800*	–	776	927	50	830	996	ATV9A0C80Q6
HD	*630*	–	*619*	*740*	*50*	*650*	*975*	
ND	*1000*	–	969	1158	50	1030	1236	ATV9A0M10Q6
HD	*800*	–	*779*	*931*	*50*	*830*	*1245*	
ND	*1200*	–	1161	1388	50	1230	1476	ATV9A0M12Q6
HD	*1000*	–	*971*	*1160*	*50*	*1030*	*1545*	

(1) Integrated motor chokes allowing a shielded motor cable length up to 300 m/984 ft in category C3.
(2) These values are given for a nominal switching frequency of 2.5 kHz for use in continuous operation.
The switching frequency is adjustable from 2 to 4.9 kHz for all ratings.
Above 2.5 kHz, the drive will automatically reduce the switching frequency in the event of an excessive temperature rise.
For continuous operation above the nominal switching frequency, derate the nominal drive current (see the derating curves in the Integration Manual PHA2451702).
(3) Typical value for the indicated motor power and for the maximum prospective line Isc.

Note: *Altivar Process Modular Standard drives can be designed as Reduced Height versions for integration in 1.6 m/5.25 ft cabinets.*

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Dimensions: page 20

Variable speed drives
Altivar Process Modular
Drives for cabinet integration
Three-phase supply voltage: 400 V 50/60 Hz

ATVPro_62317_CPMGU180016

ATV6B0C11Q4

ATVPro_CP19025

ATV6B0C20Q4

400 V (-15…10%) IP00 Modular Low Harmonic drives *(1)*

Motor			Line supply			Altivar Process		
Power indicated on rating plate *(2)*			Line current *(3)*	Apparent power	Maximum prospective line Isc	Maximum continuous current *(2)*	Max. transient current for 60 s	Reference
			400 V	400 V				
ND:	Normal duty							
HD:	*Heavy duty*							
	kW	*HP*	A	kVA	kA	A	A	
Altivar Process Modular for fluid management								
THDi ≤ 5% at 100% load in Normal duty								
ND	110	–	175	121	50	211	232	ATV6B0C11Q4
HD	*90*	–	*144*	*100*	*50*	*173*	*260*	
ND	132	–	208	144	50	250	275	ATV6B0C13Q4
HD	*110*	–	*174*	*121*	*50*	*211*	*317*	
ND	160	–	252	174	50	302	332	ATV6B0C16Q4
HD	*132*	–	*208*	*144*	*50*	*250*	*375*	
ND	200	–	313	217	50	370	407	ATV6B0C20Q4
HD	*160*	–	*252*	*174*	*50*	*302*	*453*	
ND	250	–	389	270	50	477	525	ATV6B0C25Q4
HD	*200*	–	*313*	*217*	*50*	*370*	*555*	
ND	315	–	491	340	50	590	649	ATV6B0C31Q4
HD	*250*	–	*389*	*270*	*50*	*477*	*716*	
ND	355	–	553	383	50	660	726	ATV6B0C35Q4
HD	*280*	–	*436*	*302*	*50*	*520*	*780*	
ND	400	–	620	429	50	730	803	ATV6B0C40Q4
HD	*315*	–	*491*	*340*	*50*	*590*	*885*	
ND	450	–	697	483	50	830	913	ATV6B0C45Q4
HD	*355*	–	*553*	*383*	*50*	*660*	*990*	
ND	500	–	775	537	50	900	990	ATV6B0C50Q4
HD	*400*	–	*620*	*429*	*50*	*730*	*1095*	
ND	560	–	868	601	50	1020	1122	ATV6B0C56Q4
HD	*450*	–	*697*	*483*	*50*	*830*	*1245*	
ND	630	–	971	673	50	1140	1254	ATV6B0C63Q4
HD	*500*	–	*775*	*537*	*50*	*900*	*1350*	
ND	710	–	1094	758	50	1260	1386	ATV6B0C71Q4
HD	*560*	–	*868*	*601*	*50*	*1020*	*1530*	
ND	800	–	1227	850	50	1420	1562	ATV6B0C80Q4
HD	*630*	–	*971*	*673*	*50*	*1140*	*1710*	

(1) Integrated motor chokes allowing a shielded motor cable length up to 300 m/984 ft in category C3.
(2) These values are given for a nominal switching frequency of 2.5 kHz for use in continuous operation.
The switching frequency is adjustable from 2 to 4.9 kHz for all ratings.
Above 2.5 kHz, the drive will automatically reduce the switching frequency in the event of an excessive temperature rise.
For continuous operation above the nominal switching frequency, derate the nominal drive current (see the derating curves in the Integration Manual PHA2452602).
(3) Typical value for the indicated motor power and for the maximum prospective line Isc.

Variable speed drives
Altivar Process Modular
Drives for cabinet integration
Three-phase supply voltage: 400 V 50/60 Hz

ATV9B0C13Q4

ATV9B0C25Q4

400 V (-15…10%) IP00 Modular Low Harmonic/Regen drives *(1)*

Motor			Line supply			Altivar Process		
Power indicated on rating plate *(2)*			Line current *(3)*	Apparent power	Maximum prospective line Isc	Maximum continuous current *(2)*	Max. transient current for 60 s	Reference
			400 V	400 V				
ND:	Normal duty							
HD:	*Heavy duty*							
	kW	*HP*	A	kVA	kA	A	A	
Altivar Process Modular for demanding applications								
THDi ≤ 5% at 100% load in Normal duty								
ND	110	–	175	121	50	211	253	ATV9B0C11Q4
HD	*90*	–	*144*	*100*	*50*	*173*	*260*	
ND	132	–	208	144	50	250	300	ATV9B0C13Q4
HD	*110*	–	*174*	*121*	*50*	*211*	*317*	
ND	160	–	252	174	50	302	362	ATV9B0C16Q4
HD	*132*	–	*208*	*144*	*50*	*250*	*375*	
ND	200	–	313	217	50	370	444	ATV9B0C20Q4
HD	*160*	–	*252*	*174*	*50*	*302*	*453*	
ND	250	–	389	270	50	477	572	ATV9B0C25Q4
HD	*200*	–	*313*	*217*	*50*	*370*	*555*	
ND	315	–	491	340	50	590	708	ATV9B0C31Q4
HD	*250*	–	*389*	*270*	*50*	*477*	*716*	
ND	355	–	553	383	50	660	792	ATV9B0C35Q4
HD	*280*	–	*436*	*302*	*50*	*520*	*780*	
ND	400	–	620	429	50	730	876	ATV9B0C40Q4
HD	*315*	–	*491*	*340*	*50*	*590*	*885*	
ND	450	–	697	483	50	830	996	ATV9B0C45Q4
HD	*355*	–	*553*	*383*	*50*	*660*	*990*	
ND	500	–	775	537	50	900	1080	ATV9B0C50Q4
HD	*400*	–	*620*	*429*	*50*	*730*	*1095*	
ND	560	–	868	601	50	1020	1224	ATV9B0C56Q4
HD	*450*	–	*697*	*483*	*50*	*830*	*1245*	
ND	630	–	971	673	50	1140	1368	ATV9B0C63Q4
HD	*500*	–	*775*	*537*	*50*	*900*	*1350*	
ND	710	–	1094	758	50	1260	1512	ATV9B0C71Q4
HD	*560*	–	*868*	*601*	*50*	*1020*	*1530*	
ND	800	–	1227	850	50	1420	1704	ATV9B0C80Q4
HD	*630*	–	*971*	*673*	*50*	*1140*	*1710*	

(1) Integrated motor chokes allowing a shielded motor cable length up to 300 m/984 ft in category C3.
(2) These values are given for a nominal switching frequency of 2.5 kHz for use in continuous operation.
The switching frequency is adjustable from 2 to 4.9 kHz for all ratings.
Above 2.5 kHz, the drive will automatically reduce the switching frequency in the event of an excessive temperature rise.
For continuous operation above the nominal switching frequency, derate the nominal drive current (see the derating curves in the Integration Manual PHA2452602).
(3) Typical value for the indicated motor power and for the maximum prospective line Isc.

Variable speed drives
Altivar Process Modular
Drives for cabinet integration
Three-phase supply voltage: 440 V 50/60 Hz

ATVPro_CP19026

ATV6B0C31R4

ATVPro_CP19027

ATV6B0C56R4

440 V (-15…10%) IP00 Modular Low Harmonic drives *(1)*

Motor			Line supply			Altivar Process		
Power indicated on rating plate *(2)*			Line current *(3)*	Apparent power	Maximum prospective line Isc	Maximum continuous current *(2)*	Max. transient current for 60 s	Reference
			440 V	440 V				
ND:	Normal duty							
HD:	*Heavy duty*							
	kW	*HP*	A	kVA	kA	A	A	
Altivar Process Modular for fluid management								
THDi ≤ 5% at 100% load in Normal duty								
ND	110	–	159	121	50	211	232	ATV6B0C11R4
HD	*90*	–	*132*	*100*	*50*	*173*	*260*	
ND	132	–	190	145	50	250	275	ATV6B0C13R4
HD	*110*	–	*159*	*121*	*50*	*211*	*317*	
ND	160	–	229	174	50	302	332	ATV6B0C16R4
HD	*132*	–	*190*	*145*	*50*	*250*	*375*	
ND	200	–	285	217	50	370	407	ATV6B0C20R4
HD	*160*	–	*229*	*174*	*50*	*302*	*453*	
ND	250	–	354	270	50	477	525	ATV6B0C25R4
HD	*200*	–	*285*	*217*	*50*	*370*	*555*	
ND	315	–	446	340	50	590	649	ATV6B0C31R4
HD	*250*	–	*354*	*270*	*50*	*477*	*716*	
ND	355	–	503	383	50	660	726	ATV6B0C35R4
HD	*280*	–	*396*	*302*	*50*	*520*	*780*	
ND	400	–	563	429	50	730	803	ATV6B0C40R4
HD	*315*	–	*446*	*340*	*50*	*590*	*885*	
ND	450	–	634	483	50	830	913	ATV6B0C45R4
HD	*355*	–	*503*	*383*	*50*	*660*	*990*	
ND	500	–	704	537	50	900	990	ATV6B0C50R4
HD	*400*	–	*563*	*429*	*50*	*730*	*1095*	
ND	560	–	789	601	50	1020	1122	ATV6B0C56R4
HD	*450*	–	*634*	*483*	*50*	*830*	*1245*	
ND	630	–	883	673	50	1140	1254	ATV6B0C63R4
HD	*500*	–	*704*	*537*	*50*	*900*	*1350*	
ND	710	–	995	758	50	1260	1386	ATV6B0C71R4
HD	*560*	–	*789*	*601*	*50*	*1020*	*1530*	
ND	800	–	1115	850	50	1420	1562	ATV6B0C80R4
HD	*630*	–	*883*	*673*	*50*	*1140*	*1710*	

(1) Integrated motor chokes allowing a shielded motor cable length up to 300 m/984 ft in category C3.
(2) These values are given for a nominal switching frequency of 2.5 kHz for use in continuous operation.
The switching frequency is adjustable from 2 to 4.9 kHz for all ratings.
Above 2.5 kHz, the drive will automatically reduce the switching frequency in the event of an excessive temperature rise.
For continuous operation above the nominal switching frequency, derate the nominal drive current (see the derating curves in the Integration Manual PHA2452602).
(3) Typical value for the indicated motor power and for the maximum prospective line Isc.

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Variable speed drives
Altivar Process Modular
Drives for cabinet integration
Three-phase supply voltage: 440 V 50/60 Hz

ATVPro_CP19026

ATV9B0C40R4

ATVPro_CP19027

ATV9B0C63R4

440 V IP00 (-15…10%) Modular Low Harmonic/Regen drives *(1)*

Motor			Line supply			Altivar Process		
Power indicated on rating plate *(2)*			Line current *(3)*	Apparent power	Maximum prospective line Isc	Maximum continuous current *(2)*	Max. transient current for 60 s	Reference
			440 V	440 V				
ND:	Normal duty							
HD:	*Heavy duty*							
	kW	*HP*	A	kVA	kA	A	A	
Altivar Process Modular for demanding applications								
THDi ≤ 5% at 100% load in Normal duty								
ND	110	–	159	121	50	211	253	ATV9B0C11R4
HD	*90*	–	*132*	*100*	*50*	*173*	*260*	
ND	132	–	190	145	50	250	300	ATV9B0C13R4
HD	*110*	–	*159*	*121*	*50*	*211*	*317*	
ND	160	–	229	174	50	302	362	ATV9B0C16R4
HD	*132*	–	*190*	*145*	*50*	*250*	*375*	
ND	200	–	285	217	50	370	444	ATV9B0C20R4
HD	*160*	–	*229*	*174*	*50*	*302*	*453*	
ND	250	–	354	270	50	477	572	ATV9B0C25R4
HD	*200*	–	*285*	*217*	*50*	*370*	*555*	
ND	315	–	446	340	50	590	708	ATV9B0C31R4
HD	*250*	–	*354*	*270*	*50*	*477*	*716*	
ND	355	–	503	383	50	660	792	ATV9B0C35R4
HD	*280*	–	*396*	*302*	*50*	*520*	*780*	
ND	400	–	563	429	50	730	876	ATV9B0C40R4
HD	*315*	–	*446*	*340*	*50*	*590*	*885*	
ND	450	–	634	483	50	830	996	ATV9B0C45R4
HD	*355*	–	*503*	*383*	*50*	*660*	*990*	
ND	500	–	704	537	50	900	1080	ATV9B0C50R4
HD	*400*	–	*563*	*429*	*50*	*730*	*1095*	
ND	560	–	789	601	50	1020	1224	ATV9B0C56R4
HD	*450*	–	*634*	*483*	*50*	*830*	*1245*	
ND	630	–	883	673	50	1140	1368	ATV9B0C63R4
HD	*500*	–	*704*	*537*	*50*	*900*	*1350*	
ND	710	–	995	758	50	1260	1512	ATV9B0C71R4
HD	*560*	–	*789*	*601*	*50*	*1020*	*1530*	
ND	800	–	1115	850	50	1420	1704	ATV9B0C80R4
HD	*630*	–	*883*	*673*	*50*	*1140*	*1710*	

(1) Integrated motor chokes allowing a shielded motor cable length up to 300 m/984 ft in category C3.
(2) These values are given for a nominal switching frequency of 2.5 kHz for use in continuous operation.
The switching frequency is adjustable from 2 to 4.9 kHz for all ratings.
Above 2.5 kHz, the drive will automatically reduce the switching frequency in the event of an excessive temperature rise.
For continuous operation above the nominal switching frequency, derate the nominal drive current (see the derating curves in the Integration Manual PHA2452602).
(3) Typical value for the indicated motor power and for the maximum prospective line Isc.

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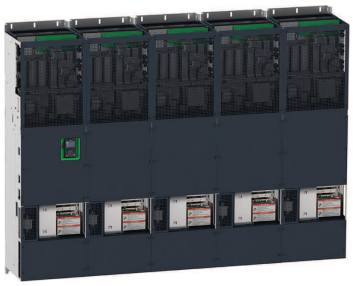
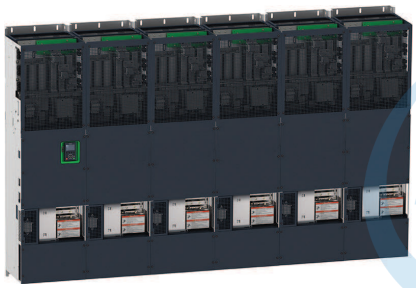
Variable speed drives
Altivar Process Modular
Drives for cabinet integration
Three-phase supply voltage: 480 V 50/60 Hz

ATVPro_CP19028



ATV6B0C45T4

ATVPro_CP19023



ATV6B0C71T4

480 V (-10…10%) IP00 Modular Low Harmonic drives *(1)*

Motor			Line supply			Altivar Process		
Power indicated on rating plate *(2)*			Line current *(3)*	Apparent power	Maximum prospective line Isc	Maximum continuous current *(2)*	Max. transient current for 60 s	Reference
			480 V	480 V				
ND:	Normal duty							
HD:	*Heavy duty*							
	kW	*HP*	A	kVA	kA	A	A	
Altivar Process Modular for fluid management								
THDi ≤ 5% at 100% load in Normal duty								
ND	–	150	148	123	50	211	232	ATV6B0C11T4
HD	–	*125*	*125*	*104*	*50*	*173*	*260*	
ND	–	200	197	164	50	250	275	ATV6B0C13T4
HD	–	*150*	*148*	*123*	*50*	*211*	*317*	
ND	–	250	245	203	50	302	332	ATV6B0C16T4
HD	–	*200*	*197*	*164*	*50*	*250*	*375*	
ND	–	300	292	243	50	370	407	ATV6B0C20T4
HD	–	*250*	*245*	*203*	*50*	*302*	*453*	
ND	–	400	387	322	50	477	525	ATV6B0C25T4
HD	–	*300*	*292*	*243*	*50*	*370*	*555*	
ND	–	500	484	402	50	590	649	ATV6B0C31T4
HD	–	*400*	*387*	*322*	*50*	*477*	*716*	
ND	–	550	533	443	50	660	726	ATV6B0C35T4
HD	–	*450*	*436*	*362*	*50*	*520*	*780*	
ND	–	600	578	480	50	730	803	ATV6B0C40T4
HD	–	*500*	*484*	*402*	*50*	*590*	*885*	
ND	–	650	626	520	50	830	913	ATV6B0C45T4
HD	–	*550*	*533*	*443*	*50*	*660*	*990*	
ND	–	700	674	561	50	900	990	ATV6B0C50T4
HD	–	*600*	*578*	*480*	*50*	*730*	*1095*	
ND	–	800	771	641	50	1020	1122	ATV6B0C56T4
HD	–	*650*	*626*	*520*	*50*	*830*	*1245*	
ND	–	900	862	717	50	1140	1254	ATV6B0C63T4
HD	–	*700*	*674*	*561*	*50*	*900*	*1350*	
ND	–	1000	958	797	50	1260	1386	ATV6B0C71T4
HD	–	*800*	*771*	*641*	*50*	*1020*	*1530*	
ND	–	1100	1049	872	50	1420	1562	ATV6B0C80T4
HD	–	*900*	*862*	*717*	*50*	*1140*	*1710*	

(1) Integrated motor chokes allowing a shielded motor cable length up to 300 m/984 ft in category C3.
(2) These values are given for a nominal switching frequency of 2.5 kHz for use in continuous operation.
The switching frequency is adjustable from 2 to 4.9 kHz for all ratings.
Above 2.5 kHz, the drive will automatically reduce the switching frequency in the event of an excessive temperature rise.
For continuous operation above the nominal switching frequency, derate the nominal drive current (see the derating curves in the Integration Manual PHA2452602).
(3) Typical value for the indicated motor power and for the maximum prospective line Isc.

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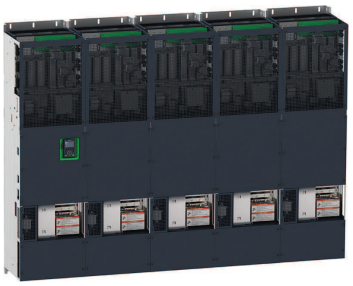
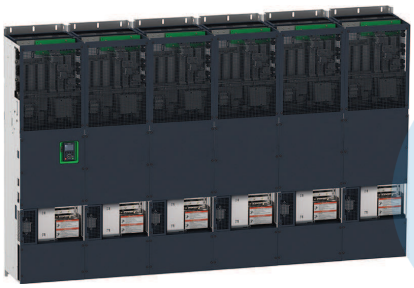
Variable speed drives
Altivar Process Modular
Drives for cabinet integration
Three-phase supply voltage: 480 V 50/60 Hz

ATVPro_CP19028



ATV9B0C50T4

ATVPro_CP19023



ATV9B0C80T4

480 V (-10…10%) IP00 Modular Low Harmonic/Regen drives *(1)*

Motor			Line supply			Altivar Process		
Power indicated on rating plate *(2)*			Line current *(3)*	Apparent power	Maximum prospective line Isc	Maximum continuous current *(2)*	Max. transient current for 60 s	Reference
			480 V	480 V				
ND:	Normal duty							
HD:	*Heavy duty*							
	kW	*HP*	A	kVA	kA	A	A	
Altivar Process Modular for demanding applications								
THDi ≤ 5% at 100% load in Normal duty								
ND	–	150	148	123	50	211	253	ATV9B0C11T4
HD	–	*125*	*125*	*104*	*50*	*173*	*260*	
ND	–	200	197	164	50	250	300	ATV9B0C13T4
HD	–	*150*	*148*	*123*	*50*	*211*	*317*	
ND	–	250	245	203	50	302	362	ATV9B0C16T4
HD	–	*200*	*197*	*164*	*50*	*250*	*375*	
ND	–	300	292	243	50	370	444	ATV9B0C20T4
HD	–	*250*	*245*	*203*	*50*	*302*	*453*	
ND	–	400	387	322	50	477	572	ATV9B0C25T4
HD	–	*300*	*292*	*243*	*50*	*370*	*555*	
ND	–	500	484	402	50	590	708	ATV9B0C31T4
HD	–	*400*	*387*	*322*	*50*	*477*	*716*	
ND	–	550	533	443	50	660	792	ATV9B0C35T4
HD	–	*450*	*436*	*362*	*50*	*520*	*780*	
ND	–	600	578	480	50	730	876	ATV9B0C40T4
HD	–	*500*	*484*	*402*	*50*	*590*	*885*	
ND	–	650	626	520	50	830	996	ATV9B0C45T4
HD	–	*550*	*533*	*443*	*50*	*660*	*990*	
ND	–	700	674	561	50	900	1080	ATV9B0C50T4
HD	–	*600*	*578*	*480*	*50*	*730*	*1095*	
ND	–	800	771	641	50	1020	1224	ATV9B0C56T4
HD	–	*650*	*626*	*520*	*50*	*830*	*1245*	
ND	–	900	862	717	50	1140	1368	ATV9B0C63T4
HD	–	*700*	*674*	*561*	*50*	*900*	*1350*	
ND	–	1000	958	797	50	1260	1512	ATV9B0C71T4
HD	–	*800*	*771*	*641*	*50*	*1020*	*1530*	
ND	–	1100	1049	872	50	1420	1704	ATV9B0C80T4
HD	–	*900*	*862*	*717*	*50*	*1140*	*1710*	

(1) Integrated motor chokes allowing a shielded motor cable length up to 300 m/984 ft in category C3.
(2) These values are given for a nominal switching frequency of 2.5 kHz for use in continuous operation.
The switching frequency is adjustable from 2 to 4.9 kHz for all ratings.
Above 2.5 kHz, the drive will automatically reduce the switching frequency in the event of an excessive temperature rise.
For continuous operation above the nominal switching frequency, derate the nominal drive current (see the derating curves in the Integration Manual PHA2452602).
(3) Typical value for the indicated motor power and for the maximum prospective line Isc.

Variable speed drives
Altivar Process Modular
Drives for cabinet integration
Three-phase supply voltage: 500 V 50/60 Hz


ATVPro_62317_CPMGU180016

ATV6B0C11N6


ATVPro_CP19025

ATV6B0C25N6

500 V (-10...15%) IP00 Modular Low Harmonic drives *(1)*

Motor			Line supply			Altivar Process		
Power indicated on rating plate *(2)*			Line current *(3)*	Apparent power	Maximum prospective line Isc	Maximum continuous current *(2)*	Max. transient current for 60 s	Reference
			500 V	500 V				
ND:	Normal duty							
HD:	*Heavy duty*							
	kW	*HP*	A	kVA	kA	A	A	
Altivar Process Modular for fluid management								
THDi ≤ 5% at 100% load in Normal duty								
ND	75	–	98	85	50	125	138	ATV6B0C11N6
HD	*55*	–	*72*	*62*	*50*	*105*	*158*	
ND	90	–	117	101	50	145	160	ATV6B0C13N6
HD	*75*	–	*98*	*85*	*50*	*125*	*188*	
ND	110	–	141	122	50	175	193	ATV6B0C16N6
HD	*90*	–	*117*	*101*	*50*	*145*	*218*	
ND	132	–	169	146	50	215	237	ATV6B0C20N6
HD	*110*	–	*141*	*122*	*50*	*175*	*263*	
ND	160	–	204	176	50	275	303	ATV6B0C25N6
HD	*132*	–	*169*	*146*	*50*	*215*	*323*	
ND	220	–	278	241	50	340	374	ATV6B0C31N6
HD	*160*	–	*204*	*176*	*50*	*275*	*413*	
ND	280	–	352	305	50	425	468	ATV6B0C40N6
HD	*220*	–	*278*	*241*	*50*	*340*	*510*	
ND	355	–	446	386	50	520	572	ATV6B0C50N6
HD	*280*	–	*352*	*305*	*50*	*425*	*638*	
ND	450	–	562	487	50	650	715	ATV6B0C63N6
HD	*355*	–	*446*	*386*	*50*	*520*	*780*	
ND	560	–	701	607	50	830	913	ATV6B0C80N6
HD	*450*	–	*564*	*488*	*50*	*650*	*975*	
ND	710	–	884	766	50	1030	1133	ATV6B0M10N6
HD	*560*	–	*701*	*607*	*50*	*830*	*1245*	
ND	800	–	991	859	50	1230	1353	ATV6B0M12N6
HD	*710*	–	*884*	*766*	*50*	*1030*	*1545*	

(1) Integrated motor chokes allowing a shielded motor cable length up to 300 m/984 ft in category C3.
(2) These values are given for a nominal switching frequency of 2.5 kHz for use in continuous operation.
The switching frequency is adjustable from 2 to 4.9 kHz for all ratings.
Above 2.5 kHz, the drive will automatically reduce the switching frequency in the event of an excessive temperature rise.
For continuous operation above the nominal switching frequency, derate the nominal drive current (see the derating curves in the Integration Manual PHA2452602).
(3) Typical value for the indicated motor power and for the maximum prospective line Isc.

Variable speed drives
Altivar Process Modular
Drives for cabinet integration
Three-phase supply voltage: 500 V 50/60 Hz

ATVPro_62217_CPMGU180016

ATV9B0C11N6

ATVPro_CP19025

ATV9B0C25N6

500 V (-10...15%) IP00 Modular Low Harmonic/Regen drives *(1)*

Motor			Line supply			Altivar Process		
Power indicated on rating plate *(2)*			Line current *(3)*	Apparent power	Maximum prospective line Isc	Maximum continuous current *(2)*	Max. transient current for 60 s	Reference
			500 V	500 V				
ND:	Normal duty							
HD:	*Heavy duty*							
	kW	*HP*	A	kVA	kA	A	A	
Altivar Process Modular for demanding applications								
THDi ≤ 5% at 100% load in Normal duty								
ND	75	–	98	85	50	125	150	ATV9B0C11N6
HD	*55*	–	*72*	*62*	*50*	*105*	*158*	
ND	90	–	117	101	50	145	174	ATV9B0C13N6
HD	*75*	–	*98*	*85*	*50*	*125*	*188*	
ND	110	–	141	122	50	175	210	ATV9B0C16N6
HD	*90*	–	*117*	*101*	*50*	*145*	*218*	
ND	132	–	169	146	50	215	258	ATV9B0C20N6
HD	*110*	–	*141*	*122*	*50*	*175*	*263*	
ND	160	–	204	176	50	275	330	ATV9B0C25N6
HD	*132*	–	*169*	*146*	*50*	*215*	*323*	
ND	220	–	278	241	50	340	408	ATV9B0C31N6
HD	*160*	–	*204*	*176*	*50*	*275*	*413*	
ND	280	–	352	305	50	425	510	ATV9B0C40N6
HD	*220*	–	*278*	*241*	*50*	*340*	*510*	
ND	355	–	446	386	50	520	624	ATV9B0C50N6
HD	*280*	–	*352*	*305*	*50*	*425*	*638*	
ND	450	–	562	487	50	650	780	ATV9B0C63N6
HD	*355*	–	*446*	*386*	*50*	*520*	*780*	
ND	560	–	701	607	50	830	996	ATV9B0C80N6
HD	*450*	–	*564*	*488*	*50*	*650*	*975*	
ND	710	–	884	766	50	1030	1236	ATV9B0M10N6
HD	*560*	–	*701*	*607*	*50*	*830*	*1245*	
ND	800	–	991	859	50	1230	1476	ATV9B0M12N6
HD	*710*	–	*884*	*766*	*50*	*1030*	*1545*	

(1) Integrated motor chokes allowing a shielded motor cable length up to 300 m/984 ft in category C3.
(2) These values are given for a nominal switching frequency of 2.5 kHz for use in continuous operation.
The switching frequency is adjustable from 2 to 4.9 kHz for all ratings.
Above 2.5 kHz, the drive will automatically reduce the switching frequency in the event of an excessive temperature rise.
For continuous operation above the nominal switching frequency, derate the nominal drive current (see the derating curves in the Integration Manual PHA2452602).
(3) Typical value for the indicated motor power and for the maximum prospective line Isc.

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Variable speed drives
Altivar Process Modular
Drives for cabinet integration
Three-phase supply voltage: 600 V 50/60 Hz

ATVPro_CP19026

ATV6B0C50T6

ATVPro_CP19027

ATV6B0C80T6

600 V (-10...10%) IP00 Modular Low Harmonic drives *(1)*

Motor			Line supply			Altivar Process		
Power indicated on rating plate *(2)*			Line current *(3)*	Apparent power	Maximum prospective line Isc *(4)*	Maximum continuous current *(2)*	Max. transient current for 60 s	Reference
			600 V	600 V				
ND:	Normal duty							
HD:	*Heavy duty*							
	kW	*HP*	A	kVA	kA	A	A	
Altivar Process Modular for fluid management								
THDi ≤ 5% at 100% load in Normal duty								
ND	–	125	102	106	50	125	138	ATV6B0C11T6
HD	–	*100*	*82*	*86*	*50*	*105*	*158*	
ND	–	150	121	126	50	145	160	ATV6B0C13T6
HD	–	*125*	*102*	*106*	*50*	*125*	*188*	
ND	–	175	142	147	50	175	193	ATV6B0C16T6
HD	–	*150*	*121*	*126*	*50*	*145*	*218*	
ND	–	200	161	167	50	215	237	ATV6B0C20T6
HD	–	*175*	*142*	*147*	*50*	*175*	*263*	
ND	–	250	199	207	50	275	303	ATV6B0C25T6
HD	–	*200*	*160*	*166*	*50*	*215*	*323*	
ND	–	350	277	288	50	340	374	ATV6B0C31T6
HD	–	*250*	*199*	*207*	*50*	*275*	*413*	
ND	–	450	355	369	50	425	468	ATV6B0C40T6
HD	–	*350*	*277*	*288*	*50*	*340*	*510*	
ND	–	550	434	451	50	520	572	ATV6B0C50T6
HD	–	*450*	*355*	*369*	*50*	*425*	*638*	
ND	–	650	511	531	50	650	715	ATV6B0C63T6
HD	–	*550*	*434*	*451*	*50*	*520*	*780*	
ND	–	800	628	652	50	830	913	ATV6B0C80T6
HD	–	*650*	*513*	*533*	*50*	*650*	*975*	
ND	–	1000	785	815	50	1030	1133	ATV6B0M10T6
HD	–	*800*	*628*	*652*	*50*	*830*	*1245*	
ND	–	1200	937	973	50	1230	1353	ATV6B0M12T6
HD	–	*1000*	*785*	*815*	*50*	*1030*	*1545*	

(1) Integrated motor chokes allowing a shielded motor cable length up to 300 m/984 ft in category C3.
(2) These values are given for a nominal switching frequency of 2.5 kHz for use in continuous operation.
The switching frequency is adjustable from 2 to 4.9 kHz for all ratings.
Above 2.5 kHz, the drive will automatically reduce the switching frequency in the event of an excessive temperature rise.
For continuous operation above the nominal switching frequency, derate the nominal drive current (see the derating curves in the Integration Manual PHA2452602).
(3) Typical value for the indicated motor power and for the maximum prospective line Isc.
(4) For 600V UL certified drives, a higher SCCR is possible under some conditions. Please refer to the Integration Manual PHA2452602 for more details.

Variable speed drives
Altivar Process Modular
Drives for cabinet integration
Three-phase supply voltage: 600 V 50/60 Hz

ATVPro_CP19026

ATV9B0C50T6

ATVPro_CP19027

ATV9B0C80T6

600 V (-10...10%) IP00 Modular Low Harmonic/Regen drives *(1)*

Motor			Line supply			Altivar Process		
Power indicated on rating plate *(2)*			Line current *(3)*	Apparent power	Maximum prospective line Isc *(4)*	Maximum continuous current *(2)*	Max. transient current for 60 s	Reference
			600 V	600 V				
ND:	Normal duty							
HD:	*Heavy duty*							
	kW	*HP*	A	kVA	kA	A	A	
Altivar Process Modular for demanding applications								
THDi ≤ 5% at 100% load in Normal duty								
ND	–	125	102	106	50	125	150	ATV9B0C11T6
HD	–	*100*	*82*	*86*	*50*	*105*	*158*	
ND	–	150	121	126	50	145	174	ATV9B0C13T6
HD	–	*125*	*102*	*106*	*50*	*125*	*188*	
ND	–	175	142	147	50	175	210	ATV9B0C16T6
HD	–	*150*	*121*	*126*	*50*	*145*	*218*	
ND	–	200	161	167	50	215	258	ATV9B0C20T6
HD	–	*175*	*142*	*147*	*50*	*175*	*263*	
ND	–	250	199	207	50	275	330	ATV9B0C25T6
HD	–	*200*	*160*	*166*	*50*	*215*	*323*	
ND	–	350	277	288	50	340	408	ATV9B0C31T6
HD	–	*250*	*199*	*207*	*50*	*275*	*413*	
ND	–	450	355	369	50	425	510	ATV9B0C40T6
HD	–	*350*	*277*	*288*	*50*	*340*	*510*	
ND	–	550	434	451	50	520	624	ATV9B0C50T6
HD	–	*450*	*355*	*369*	*50*	*425*	*638*	
ND	–	650	511	531	50	650	780	ATV9B0C63T6
HD	–	*550*	*434*	*451*	*50*	*520*	*780*	
ND	–	800	628	652	50	830	996	ATV9B0C80T6
HD	–	*650*	*513*	*533*	*50*	*650*	*975*	
ND	–	1000	785	815	50	1030	1236	ATV9B0M10T6
HD	–	*800*	*628*	*652*	*50*	*830*	*1245*	
ND	–	1200	937	973	50	1230	1476	ATV9B0M12T6
HD	–	*1000*	*785*	*815*	*50*	*1030*	*1545*	

(1) Integrated motor chokes allowing a shielded motor cable length up to 300 m/984 ft in category C3.
(2) These values are given for a nominal switching frequency of 2.5 kHz for use in continuous operation.
The switching frequency is adjustable from 2 to 4.9 kHz for all ratings.
Above 2.5 kHz, the drive will automatically reduce the switching frequency in the event of an excessive temperature rise. For continuous operation above the nominal switching frequency, derate the nominal drive current (see the derating curves in the Integration Manual PHA2452602).
(3) Typical value for the indicated motor power and for the maximum prospective line Isc.
(4) For 600V UL certified drives, a higher SCCR is possible under some conditions. Please refer to the Integration Manual PHA2452602 for more details.

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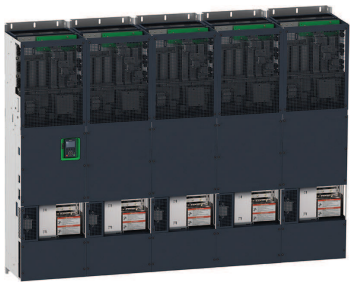
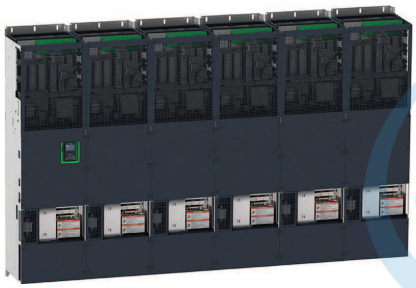
Variable speed drives
Altivar Process Modular
Drives for cabinet integration
Three-phase supply voltage: 690 V 50/60 Hz

ATVPro_CP19028



ATV6B0M10Q6

ATVPro_CP19023



ATV6B0M12Q6

690 V (-10...10%) IP00 Modular Low Harmonic drives *(1)*

Motor			Line supply			Altivar Process		
Power indicated on rating plate *(2)*			Line current *(3)*	Apparent power	Maximum prospective line Isc	Maximum continuous current *(2)*	Max. transient current for 60 s	Reference
			690 V	690 V				
ND:	Normal duty							
HD:	*Heavy duty*							
	kW	*HP*	A	kVA	kA	A	A	
Altivar Process Modular for fluid management								
THDi ≤ 5% at 100% load in Normal duty								
ND	110	–	102	122	50	125	138	ATV6B0C11Q6
HD	*90*	–	*85*	*101*	*50*	*105*	*158*	
ND	132	–	122	146	50	145	160	ATV6B0C13Q6
HD	*110*	–	*102*	*122*	*50*	*125*	*188*	
ND	160	–	148	177	50	175	193	ATV6B0C16Q6
HD	*132*	–	*122*	*146*	*50*	*145*	*218*	
ND	200	–	183	219	50	215	237	ATV6B0C20Q6
HD	*160*	–	*148*	*177*	*50*	*175*	*263*	
ND	250	–	228	273	50	275	303	ATV6B0C25Q6
HD	*200*	–	*183*	*219*	*50*	*215*	*323*	
ND	315	–	287	343	50	340	374	ATV6B0C31Q6
HD	*250*	–	*228*	*273*	*50*	*275*	*413*	
ND	400	–	363	434	50	425	468	ATV6B0C40Q6
HD	*315*	–	*287*	*343*	*50*	*340*	*510*	
ND	500	–	453	541	50	520	572	ATV6B0C50Q6
HD	*400*	–	*362*	*433*	*50*	*425*	*638*	
ND	630	–	568	678	50	650	715	ATV6B0C63Q6
HD	*500*	–	*453*	*541*	*50*	*520*	*780*	
ND	800	–	718	859	50	830	913	ATV6B0C80Q6
HD	*630*	–	*569*	*680*	*50*	*650*	*975*	
ND	1000	–	898	1073	50	1030	1133	ATV6B0M10Q6
HD	*800*	–	*718*	*859*	*50*	*830*	*1245*	
ND	1200	–	1078	1288	50	1230	1353	ATV6B0M12Q6
HD	*1000*	–	*898*	*1073*	*50*	*1030*	*1545*	

(1) Integrated motor chokes allowing a shielded motor cable length up to 300 m/984 ft in category C3.
(2) These values are given for a nominal switching frequency of 2.5 kHz for use in continuous operation.
The switching frequency is adjustable from 2 to 4.9 kHz for all ratings.
Above 2.5 kHz, the drive will automatically reduce the switching frequency in the event of an excessive temperature rise.
For continuous operation above the nominal switching frequency, derate the nominal drive current (see the derating curves in the Integration Manual PHA2452602).
(3) Typical value for the indicated motor power and for the maximum prospective line Isc.

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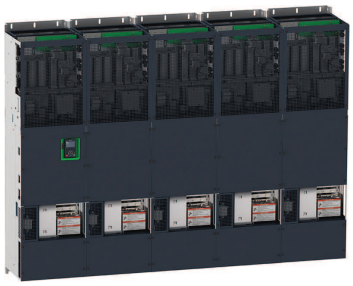
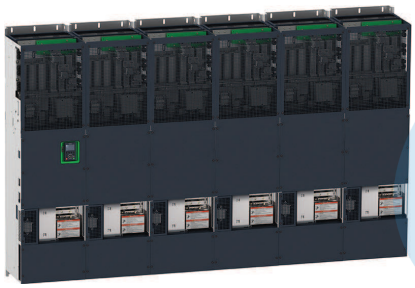
Variable speed drives
Altivar Process Modular
Drives for cabinet integration
Three-phase supply voltage: 690 V 50/60 Hz

ATVPro_CP19028



ATV9B0M10Q6

ATVPro_CP19023



ATV9B0M12Q6

690 V (-10...10%) IP00 Modular Low Harmonic/Regen drives *(1)*

Motor			Line supply			Altivar Process		
Power indicated on rating plate *(2)*			Line current *(3)*	Apparent power	Maximum prospective line Isc	Maximum continuous current *(2)*	Max. transient current for 60 s	Reference
			690 V	690 V				
ND:	Normal duty							
HD:	*Heavy duty*							
	kW	*HP*	A	kVA	kA	A	A	
Altivar Process Modular for demanding applications								
THDi ≤ 5% at 100% load in Normal duty								
ND	110	–	102	122	50	125	150	ATV9B0C11Q6
HD	*90*	–	*85*	*101*	*50*	*105*	*158*	
ND	132	–	122	146	50	145	174	ATV9B0C13Q6
HD	*110*	–	*102*	*122*	*50*	*125*	*188*	
ND	160	–	148	177	50	175	210	ATV9B0C16Q6
HD	*132*	–	*122*	*146*	*50*	*145*	*218*	
ND	200	–	183	219	50	215	258	ATV9B0C20Q6
HD	*160*	–	*148*	*177*	*50*	*175*	*263*	
ND	250	–	228	273	50	275	330	ATV9B0C25Q6
HD	*200*	–	*183*	*219*	*50*	*215*	*323*	
ND	315	–	287	343	50	340	408	ATV9B0C31Q6
HD	*250*	–	*228*	*273*	*50*	*275*	*413*	
ND	400	–	363	434	50	425	510	ATV9B0C40Q6
HD	*315*	–	*287*	*343*	*50*	*340*	*510*	
ND	500	–	453	541	50	520	624	ATV9B0C50Q6
HD	*400*	–	*362*	*433*	*50*	*425*	*638*	
ND	630	–	568	678	50	650	780	ATV9B0C63Q6
HD	*500*	–	*453*	*541*	*50*	*520*	*780*	
ND	800	–	718	859	50	830	996	ATV9B0C80Q6
HD	*630*	–	*569*	*680*	*50*	*650*	*975*	
ND	1000	–	898	1073	50	1030	1236	ATV9B0M10Q6
HD	*800*	–	*718*	*859*	*50*	*830*	*1245*	
ND	1200	–	1078	1288	50	1230	1476	ATV9B0M12Q6
HD	*1000*	–	*898*	*1073*	*50*	*1030*	*1545*	

(1) Integrated motor chokes allowing a shielded motor cable length up to 300 m/984 ft in category C3.
(2) These values are given for a nominal switching frequency of 2.5 kHz for use in continuous operation.
The switching frequency is adjustable from 2 to 4.9 kHz for all ratings.
Above 2.5 kHz, the drive will automatically reduce the switching frequency in the event of an excessive temperature rise.
For continuous operation above the nominal switching frequency, derate the nominal drive current (see the derating curves in the Integration Manual PHA2452602).
(3) Typical value for the indicated motor power and for the maximum prospective line Isc.

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Variable speed drives
Altivar Process Modular
Modular Liquid-cooled drives
Three-phase supply voltage: 400 V 50/60 Hz

ATVM_CP20132

ATV6L0C13Q4

ATVM_CP20133

ATV6L0C50Q4

400 V (-15...10%) IP00 Modular Liquid-cooled drives (1)

Motor			Line supply			Altivar Process		
Power indicated on rating plate (2)			Line current (3)	Apparent power	Maximum prospective line Isc	Maximum continuous current (2)	Max. transient current for 60 s	Reference
			400 V	400 V				
ND: Normal duty								
HD: Heavy duty								
	kW	*HP*	A	kVA	kA	A	A	
Altivar Process Modular Liquid-cooled								
THDi ≤ 48% at 100% load in Normal duty with 6-pulse supply *(4)*								
ND	*132*	-	244	169	50	250	275	ATV6L0C13Q4
HD	*110*	-	*210*	*145*	*50*	*211*	*317*	
ND	*160*	-	287	199	50	302	332	ATV6L0C16Q4
HD	*132*	-	*244*	*169*	*50*	*250*	*375*	
ND	*200*	-	350	242	50	370	407	ATV6L0C20Q4
HD	*160*	-	*287*	*199*	*50*	*302*	*453*	
ND	*250*	-	429	297	50	477	525	ATV6L0C25Q4
HD	*200*	-	*350*	*242*	*50*	*370*	*555*	
ND	*315*	-	536	371	50	590	649	ATV6L0C31Q4
HD	*250*	-	*429*	*297*	*50*	*477*	*716*	
ND	*400*	-	684	474	50	730	803	ATV6L0C40Q4
HD	*315*	-	*549*	*380*	*50*	*590*	*885*	
ND	*500*	-	847	587	50	900	990	ATV6L0C50Q4
HD	*400*	-	*684*	*474*	*50*	*730*	*1095*	
ND	*630*	-	1056	732	50	1140	1254	ATV6L0C63Q4
HD	*500*	-	*847*	*587*	*50*	*900*	*1350*	
ND	*800*	-	1335	925	50	1420	1562	ATV6L0C80Q4
HD	*630*	-	*1062*	*736*	*50*	*1140*	*1710*	
ND	*900*	-	1502	1041	50	1600	1760	ATV6L0C90Q4
HD	*710*	-	*1188*	*823*	*50*	*1260*	*1890*	
ND	*1000*	-	1669	1156	50	1770	1947	ATV6L0M10Q4
HD	*800*	-	*1339*	*928*	*50*	*1420*	*2130*	
ND	*1200*	-	2005	1389	50	2140	2354	ATV6L0M12Q4
HD	*1000*	-	*1669*	*1156*	*50*	*1770*	*2655*	
ND	*1500*	-	2513	1741	50	2680	2948	ATV6L0M15Q4
HD	*1200*	-	*2005*	*1389*	*50*	*2140*	*3210*	
ND	*1800*	-	3028	2098	50	3200	3520	ATV6L0M18Q4
HD	*1400*	-	*2341*	*1622*	*50*	*2470*	*3705*	

(1) Integrated motor chokes allowing a shielded motor cable length up to 300 m/984 ft in category C3.
(2) These values are given for a nominal switching frequency of 2.5 kHz for use in continuous operation.
The switching frequency is adjustable from 2 to 4.9 kHz for all ratings.
Above 2.5 kHz, the drive will automatically reduce the switching frequency in the event of an excessive temperature rise.
For continuous operation above the nominal switching frequency, derate the nominal drive current (see the derating curves in the Integration Manual).
(3) Typical value for the indicated motor power and for the maximum prospective line Isc.
(4) APM-L architecture is ready for 12-pulse supply, which allows a THDi ≤9%.

Variable speed drives
Altivar Process Modular
Modular Liquid-cooled drives
Three-phase supply voltage: 400 V 50/60 Hz


ATVM_CP20132

ATV9L0C13Q4


ATVM_CP20133

ATV9L0C50Q4

400 V (-15...10%) IP00 Modular Liquid-cooled drives *(1)*

Motor			Line supply			Altivar Process		
Power indicated on rating plate *(2)*			Line current *(3)*	Apparent power	Maximum prospective line Isc	Maximum continuous current *(2)*	Max. transient current for 60 s	Reference
ND: Normal duty *HD: Heavy duty*			400 V	400 V				
	kW	*HP*	A	kVA	kA	A	A	
Altivar Process Modular Liquid-cooled								
THDi ≤48% at 100% load in Normal duty with 6-pulse supply *(4)*								
ND	132	-	244	169	50	250	300	ATV9L0C13Q4
HD	*110*	-	*210*	*145*	*50*	*211*	*317*	
ND	160	-	287	199	50	302	362	ATV9L0C16Q4
HD	*132*	-	*244*	*169*	*50*	*250*	*375*	
ND	200	-	350	242	50	370	444	ATV9L0C20Q4
HD	*160*	-	*287*	*199*	*50*	*302*	*453*	
ND	250	-	429	297	50	477	572	ATV9L0C25Q4
HD	*200*	-	*350*	*242*	*50*	*370*	*555*	
ND	315	-	536	371	50	590	708	ATV9L0C31Q4
HD	*250*	-	*429*	*297*	*50*	*477*	*716*	
ND	400	-	684	474	50	730	876	ATV9L0C40Q4
HD	*315*	-	*549*	*380*	*50*	*590*	*885*	
ND	500	-	847	587	50	900	1080	ATV9L0C50Q4
HD	*400*	-	*684*	*474*	*50*	*730*	*1095*	
ND	630	-	1056	732	50	1140	1368	ATV9L0C63Q4
HD	*500*	-	*847*	*587*	*50*	*900*	*1350*	
ND	800	-	1335	925	50	1420	1704	ATV9L0C80Q4
HD	*630*	-	*1062*	*736*	*50*	*1140*	*1710*	
ND	900	-	1502	1041	50	1600	1920	ATV9L0C90Q4
HD	*710*	-	*1188*	*823*	*50*	*1260*	*1890*	
ND	1000	-	1669	1156	50	1770	2124	ATV9L0M10Q4
HD	*800*	-	*1339*	*928*	*50*	*1420*	*2130*	
ND	1200	-	2005	1389	50	2140	2568	ATV9L0M12Q4
HD	*1000*	-	*1669*	*1156*	*50*	*1770*	*2655*	
ND	1500	-	2513	1741	50	2680	3216	ATV9L0M15Q4
HD	*1200*	-	*2005*	*1389*	*50*	*2140*	*3210*	
ND	1800	-	3028	2098	50	3200	3840	ATV9L0M18Q4
HD	*1400*	-	*2341*	*1622*	*50*	*2470*	*3705*	

(1) Integrated motor chokes allowing a shielded motor cable length up to 300 m/984 ft in category C3.

(2) These values are given for a nominal switching frequency of 2.5 kHz for use in continuous operation. The switching frequency is adjustable from 2 to 4.9 kHz for all ratings. Above 2.5 kHz, the drive will automatically reduce the switching frequency in the event of an excessive temperature rise. For continuous operation above the nominal switching frequency, derate the nominal drive current (see the derating curves in the Integration Manual).

(3) Typical value for the indicated motor power and for the maximum prospective line Isc.

(4) APM-L architecture is ready for 12-pulse supply, which allows a THDi ≤9%.

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Variable speed drives
Altivar Process Modular
Modular Liquid-cooled drives
Three-phase supply voltage: 440 V 50/60 Hz

ATVM_CP20134

ATV6L0C80R4

ATVM_CP20135

ATV6L0M10R4

440 V (-15...10%) IP00 Modular Liquid-cooled drives (1)

Motor			Line supply			Altivar Process		
Power indicated on rating plate *(2)*			Line current *(3)*	Apparent power	Maximum prospective line Isc	Maximum continuous current *(2)*	Max. transient current for 60 s	Reference
			440 V	440 V				
ND: Normal duty								
HD: Heavy duty								
	kW	*HP*	A	kVA	kA	A	A	
Altivar Process Modular Liquid-cooled								
THDi ≤48% at 100% load in Normal duty with 6-pulse supply *(4)*								
ND	132	-	228	174	50	250	275	ATV6L0C13R4
HD	*110*	-	*198*	*151*	*50*	*211*	*317*	
ND	160	-	266	203	50	302	332	ATV6L0C16R4
HD	*132*	-	*228*	*174*	*50*	*250*	*375*	
ND	200	-	323	246	50	370	407	ATV6L0C20R4
HD	*160*	-	*266*	*203*	*50*	*302*	*453*	
ND	250	-	394	300	50	477	525	ATV6L0C25R4
HD	*200*	-	*323*	*246*	*50*	*370*	*555*	
ND	315	-	490	373	50	590	649	ATV6L0C31R4
HD	*250*	-	*394*	*300*	*50*	*477*	*716*	
ND	400	-	627	478	50	730	803	ATV6L0C40R4
HD	*315*	-	*506*	*386*	*50*	*590*	*885*	
ND	500	-	774	590	50	900	990	ATV6L0C50R4
HD	*400*	-	*627*	*478*	*50*	*730*	*1095*	
ND	630	-	963	734	50	1140	1254	ATV6L0C63R4
HD	*500*	-	*774*	*590*	*50*	*900*	*1350*	
ND	800	-	1217	927	50	1420	1562	ATV6L0C80R4
HD	*630*	-	*969*	*738*	*50*	*1140*	*1710*	
ND	900	-	1365	1040	50	1600	1760	ATV6L0C90R4
HD	*710*	-	*1083*	*825*	*50*	*1260*	*1890*	
ND	1000	-	1518	1157	50	1770	1947	ATV6L0M10R4
HD	*800*	-	*1220*	*930*	*50*	*1420*	*2130*	
ND	1200	-	1820	1387	50	2140	2354	ATV6L0M12R4
HD	*1000*	-	*1518*	*1157*	*50*	*1770*	*2655*	
ND	1500	-	2279	1737	50	2680	2948	ATV6L0M15R4
HD	*1200*	-	*1820*	*1387*	*50*	*2140*	*3210*	
ND	1800	-	2741	2089	50	3200	3520	ATV6L0M18R4
HD	*1400*	-	*2125*	*1619*	*50*	*2470*	*3705*	

(1) Integrated motor chokes allowing a shielded motor cable length up to 300 m/984 ft in category C3.
(2) These values are given for a nominal switching frequency of 2.5 kHz for use in continuous operation.
The switching frequency is adjustable from 2 to 4.9 kHz for all ratings.
Above 2.5 kHz, the drive will automatically reduce the switching frequency in the event of an excessive temperature rise.
For continuous operation above the nominal switching frequency, derate the nominal drive current (see the derating curves in the Integration Manual).
(3) Typical value for the indicated motor power and for the maximum prospective line Isc.
(4) APM-L architecture is ready for 12-pulse supply, which allows a THDi ≤9%.

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Variable speed drives
Altivar Process Modular
Modular Liquid-cooled drives
Three-phase supply voltage: 440 V 50/60 Hz

ATVM_CP20134

ATV9L0C80R4

ATVM_CP20135

ATV9L0M10R4

440 V (-15...10%) IP00 Modular Liquid-cooled drives *(1)*

Motor			Line supply			Altivar Process		
Power indicated on rating plate *(2)*			Line current *(3)*	Apparent power	Maximum prospective line Isc	Maximum continuous current *(2)*	Max. transient current for 60 s	Reference
ND: Normal duty *HD: Heavy duty*			440 V	440 V				
	kW	*HP*	A	kVA	kA	A	A	
Altivar Process Modular Liquid-cooled								
THDi ≤48% at 100% load in Normal duty with 6-pulse supply *(4)*								
ND	132	-	228	174	50	250	300	ATV9L0C13R4
HD	*110*	-	*198*	*151*	*50*	*211*	*317*	
ND	160	-	266	203	50	302	362	ATV9L0C16R4
HD	*132*	-	*228*	*174*	*50*	*250*	*375*	
ND	200	-	323	246	50	370	444	ATV9L0C20R4
HD	*160*	-	*266*	*203*	*50*	*302*	*453*	
ND	250	-	394	300	50	477	572	ATV9L0C25R4
HD	*200*	-	*323*	*246*	*50*	*370*	*555*	
ND	315	-	490	373	50	590	708	ATV9L0C31R4
HD	*250*	-	*394*	*300*	*50*	*477*	*716*	
ND	400	-	627	478	50	730	876	ATV9L0C40R4
HD	*315*	-	*506*	*386*	*50*	*590*	*885*	
ND	500	-	774	590	50	900	1080	ATV9L0C50R4
HD	*400*	-	*627*	*478*	*50*	*730*	*1095*	
ND	630	-	963	734	50	1140	1368	ATV9L0C63R4
HD	*500*	-	*774*	*590*	*50*	*900*	*1350*	
ND	800	-	1217	927	50	1420	1704	ATV9L0C80R4
HD	*630*	-	*969*	*738*	*50*	*1140*	*1710*	
ND	900	-	1365	1040	50	1600	1920	ATV9L0C90R4
HD	*710*	-	*1083*	*825*	*50*	*1260*	*1890*	
ND	1000	-	1518	1157	50	1770	2124	ATV9L0M10R4
HD	*800*	-	*1220*	*930*	*50*	*1420*	*2130*	
ND	1200	-	1820	1387	50	2140	2568	ATV9L0M12R4
HD	*1000*	-	*1518*	*1157*	*50*	*1770*	*2655*	
ND	1500	-	2279	1737	50	2680	3216	ATV9L0M15R4
HD	*1200*	-	*1820*	*1387*	*50*	*2140*	*3210*	
ND	1800	-	2741	2089	50	3200	3840	ATV9L0M18R4
HD	*1400*	-	*2125*	*1619*	*50*	*2470*	*3705*	

(1) Integrated motor chokes allowing a shielded motor cable length up to 300 m/984 ft in category C3.

(2) These values are given for a nominal switching frequency of 2.5 kHz for use in continuous operation.
The switching frequency is adjustable from 2 to 4.9 kHz for all ratings.
Above 2.5 kHz, the drive will automatically reduce the switching frequency in the event of an excessive temperature rise.
For continuous operation above the nominal switching frequency, derate the nominal drive current (see the derating curves in the Integration Manual).

(3) Typical value for the indicated motor power and for the maximum prospective line Isc.

(4) APM-L architecture is ready for 12-pulse supply, which allows a THDi ≤9%.

Variable speed drives
Altivar Process Modular
Modular Liquid-cooled drives
Three-phase supply voltage: 480 V 50/60 Hz

ATVM_CP20136

ATV6L0M15T4

ATVM_CP20137

ATV6L0M18T4

480 V (-15...10%) IP00 Modular Liquid-cooled drives (1)

Motor			Line supply			Altivar Process		
Power indicated on rating plate *(2)*			Line current *(3)*	Apparent power	Maximum prospective line Isc	Maximum continuous current *(2)*	Max. transient current for 60 s	Reference
			480 V	480 V				
ND: Normal duty								
HD: Heavy duty								
	kW	*HP*	A	kVA	kA	A	A	
Altivar Process Modular Liquid-cooled								
THDi ≤48% at 100% load in Normal duty with 6-pulse supply *(4)*								
ND	-	200	230	191	50	250	275	ATV6L0C13T4
HD	-	*150*	*183*	*152*	*50*	*211*	*317*	
ND	-	250	278	231	50	302	332	ATV6L0C16T4
HD	-	*200*	*230*	*191*	*50*	*250*	*375*	
ND	-	300	327	272	50	370	407	ATV6L0C20T4
HD	-	*250*	*278*	*231*	*50*	*302*	*453*	
ND	-	400	425	353	50	477	525	ATV6L0C25T4
HD	-	*300*	*327*	*272*	*50*	*370*	*555*	
ND	-	500	527	438	50	590	649	ATV6L0C31T4
HD	-	*400*	*425*	*353*	*50*	*477*	*716*	
ND	-	600	638	530	50	730	803	ATV6L0C40T4
HD	-	*500*	*540*	*449*	*50*	*590*	*885*	
ND	-	700	738	614	50	900	990	ATV6L0C50T4
HD	-	*600*	*638*	*530*	*50*	*730*	*1095*	
ND	-	900	938	780	50	1140	1254	ATV6L0C63T4
HD	-	*700*	*738*	*614*	*50*	*900*	*1350*	
ND	-	1100	1148	954	50	1420	1562	ATV6L0C80T4
HD	-	*900*	*944*	*785*	*50*	*1140*	*1710*	
ND	-	1300	1345	1118	50	1600	1760	ATV6L0C90T4
HD	-	*1000*	*1045*	*869*	*50*	*1260*	*1890*	
ND	-	1400	1451	1206	50	1770	1947	ATV6L0M10T4
HD	-	*1100*	*1151*	*957*	*50*	*1420*	*2130*	
ND	-	1700	1761	1464	50	2140	2354	ATV6L0M12T4
HD	-	*1400*	*1451*	*1206*	*50*	*1770*	*2655*	
ND	-	2200	2282	1897	50	2680	2948	ATV6L0M15T4
HD	-	*1700*	*1761*	*1464*	*50*	*2140*	*3210*	
ND	-	2500	2598	2160	50	3200	3520	ATV6L0M18T4
HD	-	*2000*	*2073*	*1723*	*50*	*2470*	*3705*	

(1) Integrated motor chokes allowing a shielded motor cable length up to 300 m/984 ft in category C3.
(2) These values are given for a nominal switching frequency of 2.5 kHz for use in continuous operation.
The switching frequency is adjustable from 2 to 4.9 kHz for all ratings.
Above 2.5 kHz, the drive will automatically reduce the switching frequency in the event of an excessive temperature rise.
For continuous operation above the nominal switching frequency, derate the nominal drive current (see the derating curves in the Integration Manual).
(3) Typical value for the indicated motor power and for the maximum prospective line Isc.
(4) APM-L architecture is ready for 12-pulse supply, which allows a THDi ≤9%.

Variable speed drives
Altivar Process Modular
Modular Liquid-cooled drives
Three-phase supply voltage: 480 V 50/60 Hz

ATVM_CP20136

ATV9L0M15T4

ATVM_CP20137

ATV9L0M18T4

480 V (-15...10%) IP00 Modular Liquid-cooled drives *(1)*

Motor			Line supply			Altivar Process		
Power indicated on rating plate *(2)*			Line current *(3)*	Apparent power	Maximum prospective line Isc	Maximum continuous current *(2)*	Max. transient current for 60 s	Reference
ND: Normal duty *HD: Heavy duty*			480 V	480 V				
kW		*HP*	A	kVA	kA	A	A	
Altivar Process Modular Liquid-cooled								
THDi ≤48% at 100% load in Normal duty with 6-pulse supply *(4)*								
ND	-	200	230	191	50	250	300	ATV9L0C13T4
HD	-	*150*	*183*	*152*	*50*	*211*	*317*	
ND	-	250	278	231	50	302	362	ATV9L0C16T4
HD	-	*200*	*230*	*191*	*50*	*250*	*375*	
ND	-	300	327	272	50	370	444	ATV9L0C20T4
HD	-	*250*	*278*	*231*	*50*	*302*	*453*	
ND	-	400	425	353	50	477	572	ATV9L0C25T4
HD	-	*300*	*327*	*272*	*50*	*370*	*555*	
ND	-	500	527	438	50	590	708	ATV9L0C31T4
HD	-	*400*	*425*	*353*	*50*	*477*	*716*	
ND	-	600	638	530	50	730	876	ATV9L0C40T4
HD	-	*500*	*540*	*449*	*50*	*590*	*885*	
ND	-	700	738	614	50	900	1080	ATV9L0C50T4
HD	-	*600*	*638*	*530*	*50*	*730*	*1095*	
ND	-	900	938	780	50	1140	1368	ATV9L0C63T4
HD	-	*700*	*738*	*614*	*50*	*900*	*1350*	
ND	-	1100	1148	954	50	1420	1704	ATV9L0C80T4
HD	-	*900*	*944*	*785*	*50*	*1140*	*1710*	
ND	-	1300	1345	1118	50	1600	1920	ATV9L0C90T4
HD	-	*1000*	*1045*	*869*	*50*	*1260*	*1890*	
ND	-	1400	1451	1206	50	1770	2124	ATV9L0M10T4
HD	-	*1100*	*1151*	*957*	*50*	*1420*	*2130*	
ND	-	1700	1761	1464	50	2140	2568	ATV9L0M12T4
HD	-	*1400*	*1451*	*1206*	*50*	*1770*	*2655*	
ND	-	2200	2282	1897	50	2680	3216	ATV9L0M15T4
HD	-	*1700*	*1761*	*1464*	*50*	*2140*	*3210*	
ND	-	2500	2598	2160	50	3200	3840	ATV9L0M18T4
HD	-	*2000*	*2073*	*1723*	*50*	*2470*	*3705*	

(1) Integrated motor chokes allowing a shielded motor cable length up to 300 m/984 ft in category C3.

(2) These values are given for a nominal switching frequency of 2.5 kHz for use in continuous operation. The switching frequency is adjustable from 2 to 4.9 kHz for all ratings. Above 2.5 kHz, the drive will automatically reduce the switching frequency in the event of an excessive temperature rise. For continuous operation above the nominal switching frequency, derate the nominal drive current (see the derating curves in the Integration Manual).

(3) Typical value for the indicated motor power and for the maximum prospective line Isc.

(4) APM-L architecture is ready for 12-pulse supply, which allows a THDi ≤9%.

Variable speed drives
Altivar Process Modular
Modular Liquid-cooled drives
Three-phase supply voltage: 500 V 50/60 Hz

ATVM_CP20132

ATV6L0C20N6

ATVM_CP20133

ATV6L0C71N6

500 V (-15...10%) IP00 Modular Liquid-cooled drives *(1)*

Motor			Line supply			Altivar Process		
Power indicated on rating plate *(2)*			Line current *(3)*	Apparent power	Maximum prospective line Isc	Maximum continuous current *(2)*	Max. transient current for 60 s	Reference
ND: Normal duty *HD: Heavy duty*			500 V	500 V				
	kW	*HP*	A	kVA	kA	A	A	
Altivar Process Modular Liquid-cooled								
THDi ≤ 48% at 100% load in Normal duty with 6-pulse supply *(4)*								
ND	132	-	196	170	50	215	237	ATV6L0C20N6
HD	*110*	-	*169*	*146*	*50*	*175*	*263*	
ND	200	-	281	243	50	308	339	ATV6L0C28N6
HD	*160*	-	*230*	*199*	*50*	*240*	*360*	
ND	220	-	307	266	50	340	374	ATV6L0C31N6
HD	*180*	-	*256*	*222*	*50*	*275*	*413*	
ND	250	-	344	298	50	425	468	ATV6L0C40N6
HD	*220*	-	*307*	*266*	*50*	*340*	*510*	
ND	*315*	-	429	372	50	480	528	ATV6L0C45N6
HD	*250*	-	*344*	*298*	*50*	*384*	*576*	
ND	*400*	-	549	475	50	590	649	ATV6L0C56N6
HD	*315*	-	*442*	*383*	*50*	*480*	*720*	
ND	*500*	-	679	588	50	740	814	ATV6L0C71N6
HD	*400*	-	*549*	*475*	*50*	*590*	*885*	
ND	*630*	-	846	733	50	930	1023	ATV6L0C90N6
HD	*500*	-	*679*	*588*	*50*	*740*	*1110*	
ND	*800*	-	1070	927	50	1230	1353	ATV6L0M12N6
HD	*710*	-	*957*	*829*	*50*	*1030*	*1545*	
ND	*1000*	-	1335	1156	50	1425	1568	ATV6L0M14N6
HD	*800*	-	*1070*	*927*	*50*	*1130*	*1695*	
ND	*1200*	-	1603	1388	50	1620	1782	ATV6L0M16N6
HD	*900*	-	*1204*	*1043*	*50*	*1330*	*1995*	
ND	*1300*	-	1737	1504	50	1820	2002	ATV6L0M18N6
HD	*1000*	-	*1335*	*1156*	*50*	*1425*	*2138*	
ND	*1600*	-	2141	1854	50	2220	2442	ATV6L0M22N6
HD	*1200*	-	*1602*	*1387*	*50*	*1720*	*2580*	
ND	*1900*	-	2550	2208	50	2620	2882	ATV6L0M26N6
HD	*1500*	-	*2005*	*1736*	*50*	*2120*	*3180*	

(1) Integrated motor chokes allowing a shielded motor cable length up to 300 m/984 ft in category C3.
(2) These values are given for a nominal switching frequency of 2.5 kHz for use in continuous operation.
The switching frequency is adjustable from 2 to 4.9 kHz for all ratings.
Above 2.5 kHz, the drive will automatically reduce the switching frequency in the event of an excessive temperature rise.
For continuous operation above the nominal switching frequency, derate the nominal drive current (see the derating curves in the Integration Manual).
(3) Typical value for the indicated motor power and for the maximum prospective line Isc.
(4) APM-L architecture is ready for 12-pulse supply, which allows a THDi ≤9%.

Variable speed drives
Altivar Process Modular
Modular Liquid-cooled drives
Three-phase supply voltage: 500 V 50/60 Hz


ATVM_CP20132

ATV9L0C20N6


ATVM_CP20133

ATV9L0C71N6

500 V (-15...10%) IP00 Modular Liquid-cooled drives *(1).*

Motor			Line supply			Altivar Process		
Power indicated on rating plate *(2)*			Line current *(3)*	Apparent power	Maximum prospective line Isc	Maximum continuous current *(2)*	Max. transient current for 60 s	Reference
ND: Normal duty *HD: Heavy duty*			500 V	500 V				
	kW	*HP*	A	kVA	kA	A	A	
Altivar Process Modular Liquid-cooled								
THDi ≤ 48% at 100% load in Normal duty with 6-pulse supply *(4)*								
ND	132	-	196	170	50	215	258	ATV9L0C20N6
HD	*110*	-	*169*	*146*	*50*	*175*	*263*	
ND	200	-	281	243	50	308	370	ATV9L0C28N6
HD	*160*	-	*230*	*199*	*50*	*240*	*360*	
ND	220	-	307	266	50	340	408	ATV9L0C31N6
HD	*180*	-	*256*	*222*	*50*	*275*	*413*	
ND	250	-	344	298	50	425	510	ATV9L0C40N6
HD	*220*	-	*307*	*266*	*50*	*340*	*510*	
ND	315	-	429	372	50	480	576	ATV9L0C45N6
HD	*250*	-	*344*	*298*	*50*	*384*	*576*	
ND	400	-	549	475	50	590	708	ATV9L0C56N6
HD	*315*	-	*442*	*383*	*50*	*480*	*720*	
ND	500	-	679	588	50	740	888	ATV9L0C71N6
HD	*400*	-	*549*	*475*	*50*	*590*	*885*	
ND	630	-	846	733	50	930	1116	ATV9L0C90N6
HD	*500*	-	*679*	*588*	*50*	*740*	*1110*	
ND	800	-	1070	927	50	1230	1476	ATV9L0M12N6
HD	*710*	-	*957*	*829*	*50*	*1030*	*1545*	
ND	1000	-	1335	1156	50	1425	1710	ATV9L0M14N6
HD	*800*	-	*1070*	*927*	*50*	*1130*	*1695*	
ND	1200	-	1603	1388	50	1620	1944	ATV9L0M16N6
HD	*900*	-	*1204*	*1043*	*50*	*1330*	*1995*	
ND	1300	-	1737	1504	50	1820	2184	ATV9L0M18N6
HD	*1000*	-	*1335*	*1156*	*50*	*1425*	*2138*	
ND	1600	-	2141	1854	50	2220	2664	ATV9L0M22N6
HD	*1200*	-	*1602*	*1387*	*50*	*1720*	*2580*	
ND	1900	-	2550	2208	50	2620	3144	ATV9L0M26N6
HD	*1500*	-	*2005*	*1736*	*50*	*2120*	*3180*	

(1) Integrated motor chokes allowing a shielded motor cable length up to 300 m/984 ft in category C3.

(2) These values are given for a nominal switching frequency of 2.5 kHz for use in continuous operation.
The switching frequency is adjustable from 2 to 4.9 kHz for all ratings.
Above 2.5 kHz, the drive will automatically reduce the switching frequency in the event of an excessive temperature rise.
For continuous operation above the nominal switching frequency, derate the nominal drive current (see the derating curves in the Integration Manual).

(3) Typical value for the indicated motor power and for the maximum prospective line Isc.

(4) APM-L architecture is ready for 12-pulse supply, which allows a THDi ≤9%.

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Variable speed drives
Altivar Process Modular
Modular Liquid-cooled drives
Three-phase supply voltage: 600 V 50/60 Hz

ATVM_CP20134

ATV6L0M12T6

ATVM_CP20135

ATV6L0M18T6

600 V (-15...10%) IP00 Modular Liquid-cooled drives *(1)*

Motor			Line supply			Altivar Process		
Power indicated on rating plate *(2)*			Line current *(3)*	Apparent power	Maximum prospective line Isc	Maximum continuous current *(2)*	Max. transient current for 60 s	Reference
ND: Normal duty *HD: Heavy duty*			600 V	600 V				
kW		*HP*	A	kVA	kA	A	A	
Altivar Process Modular Liquid-cooled								
THDi ≤ 48% at 100% load in Normal duty with 6-pulse supply *(4)*								
ND	-	*200*	184	191	50	215	237	ATV6L0C20T6
HD	-	*150*	*146*	*152*	*50*	*175*	*263*	
ND	-	*300*	261	271	50	308	339	ATV6L0C28T6
HD	-	*200*	*184*	*191*	*50*	*240*	*360*	
ND	-	*350*	302	314	50	340	374	ATV6L0C31T6
HD	-	*250*	*223*	*232*	*50*	*275*	*413*	
ND	-	*450*	381	396	50	425	468	ATV6L0C40T6
HD	-	*350*	*302*	*314*	*50*	*340*	*510*	
ND	-	*500*	422	439	50	480	528	ATV6L0C45T6
HD	-	*400*	*340*	*353*	*50*	*384*	*576*	
ND	-	*600*	512	532	50	590	649	ATV6L0C56T6
HD	-	*500*	*434*	*451*	*50*	*480*	*720*	
ND	-	*700*	592	615	50	740	814	ATV6L0C71T6
HD	-	*600*	*512*	*532*	*50*	*590*	*885*	
ND	-	*900*	751	780	50	930	1023	ATV6L0C90T6
HD	-	*700*	*592*	*615*	*50*	*740*	*1110*	
ND	-	*1200*	996	1035	50	1230	1353	ATV6L0M12T6
HD	-	*1000*	*838*	*871*	*50*	*1030*	*1545*	
ND	-	*1400*	1159	1204	50	1425	1568	ATV6L0M14T6
HD	-	*1100*	*919*	*955*	*50*	*1130*	*1695*	
ND	-	*1600*	1325	1377	50	1620	1782	ATV6L0M16T6
HD	-	*1300*	*1081*	*1123*	*50*	*1330*	*1995*	
ND	-	*1800*	1490	1548	50	1820	2002	ATV6L0M18T6
HD	-	*1400*	*1162*	*1208*	*50*	*1425*	*2138*	
ND	-	*2200*	1823	1895	50	2220	2442	ATV6L0M22T6
HD	-	*1700*	*1409*	*1464*	*50*	*1720*	*2580*	
ND	-	*2600*	2156	2241	50	2620	2882	ATV6L0M26T6
HD	-	*2100*	*1740*	*1808*	*50*	*2120*	*3180*	

(1) Integrated motor chokes allowing a shielded motor cable length up to 300 m/984 ft in category C3.
(2) These values are given for a nominal switching frequency of 2.5 kHz for use in continuous operation.
The switching frequency is adjustable from 2 to 4.9 kHz for all ratings.
Above 2.5 kHz, the drive will automatically reduce the switching frequency in the event of an excessive temperature rise.
For continuous operation above the nominal switching frequency, derate the nominal drive current (see the derating curves in the Integration Manual).
(3) Typical value for the indicated motor power and for the maximum prospective line Isc.
(4) APM-L architecture is ready for 12-pulse supply, which allows a THDi ≤9%.

Variable speed drives
Altivar Process Modular
Modular Liquid-cooled drives
Three-phase supply voltage: 600 V 50/60 Hz

ATVM_CP20134

ATV9L0M12T6

ATVM_CP20135

ATV9L0M18T6

600 V (-15...10%) IP00 Modular Liquid-cooled drives (1)								
Motor			Line supply			Altivar Process		
Power indicated on rating plate (2)			Line current (3)	Apparent power	Maximum prospective line Isc	Maximum continuous current (2)	Max. transient current for 60 s	Reference
ND: Normal duty *HD: Heavy duty*			600 V	600 V				
	kW	*HP*	A	kVA	kA	A	A	
Altivar Process Modular Liquid-cooled								
THDi ≤ 48% at 100% load in Normal duty with 6-pulse supply (4)								
ND	-	200	184	191	50	215	258	ATV9L0C20T6
HD	-	*150*	*146*	*152*	*50*	*175*	*263*	
ND	-	300	261	271	50	308	370	ATV9L0C28T6
HD	-	*200*	*184*	*191*	*50*	*240*	*360*	
ND	-	350	302	314	50	340	408	ATV9L0C31T6
HD	-	*250*	*223*	*232*	*50*	*275*	*413*	
ND	-	450	381	396	50	425	510	ATV9L0C40T6
HD	-	*350*	*302*	*314*	*50*	*340*	*510*	
ND	-	500	422	439	50	480	576	ATV9L0C45T6
HD	-	*400*	*340*	*353*	*50*	*384*	*576*	
ND	-	600	512	532	50	590	708	ATV9L0C56T6
HD	-	*500*	*434*	*451*	*50*	*480*	*720*	
ND	-	700	592	615	50	740	888	ATV9L0C71T6
HD	-	*600*	*512*	*532*	*50*	*590*	*885*	
ND	-	900	751	780	50	930	1116	ATV9L0C90T6
HD	-	*700*	*592*	*615*	*50*	*740*	*1110*	
ND	-	1200	996	1035	50	1230	1476	ATV9L0M12T6
HD	-	*1000*	*838*	*871*	*50*	*1030*	*1545*	
ND	-	1400	1159	1204	50	1425	1710	ATV9L0M14T6
HD	-	*1100*	*919*	*955*	*50*	*1130*	*1695*	
ND	-	1600	1325	1377	50	1620	1944	ATV9L0M16T6
HD	-	*1300*	*1081*	*1123*	*50*	*1330*	*1995*	
ND	-	1800	1490	1548	50	1820	2184	ATV9L0M18T6
HD	-	*1400*	*1162*	*1208*	*50*	*1425*	*2138*	
ND	-	2200	1823	1895	50	2220	2664	ATV9L0M22T6
HD	-	*1700*	*1409*	*1464*	*50*	*1720*	*2580*	
ND	-	2600	2156	2241	50	2620	3144	ATV9L0M26T6
HD	-	*2100*	*1740*	*1808*	*50*	*2120*	*3180*	

(1) Integrated motor chokes allowing a shielded motor cable length up to 300 m/984 ft in category C3.

(2) These values are given for a nominal switching frequency of 2.5 kHz for use in continuous operation.
The switching frequency is adjustable from 2 to 4.9 kHz for all ratings.
Above 2.5 kHz, the drive will automatically reduce the switching frequency in the event of an excessive temperature rise.
For continuous operation above the nominal switching frequency, derate the nominal drive current (see the derating curves in the Integration Manual).

(3) Typical value for the indicated motor power and for the maximum prospective line Isc.

(4) APM-L architecture is ready for 12-pulse supply, which allows a THDi ≤9%.

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Variable speed drives
Altivar Process Modular
Modular Liquid-cooled drives
Three-phase supply voltage: 690 V 50/60 Hz

ATVM_CP20136

ATV6L0M22Q6

ATVM_CP20136

ATV6L0M26Q6

690 V (-15...10%) IP00 Modular Liquid-cooled drives *(1)*

Motor			Line supply			Altivar Process		
Power indicated on rating plate *(2)*			Line current *(3)*	Apparent power	Maximum prospective line Isc	Maximum continuous current *(2)*	Max. transient current for 60 s	Reference
ND: Normal duty *HD: Heavy duty*			690 V	690 V				
	kW	*HP*	A	kVA	kA	A	A	
Altivar Process Modular Liquid-cooled								
THDi ≤ 48% at 100% load in Normal duty with 6-pulse supply *(4)*								
ND	200	-	218	261	50	215	237	ATV6L0C20Q6
HD	*160*	-	*184*	*220*	*50*	*175*	*263*	
ND	280	-	290	347	50	308	339	ATV6L0C28Q6
HD	*220*	-	*236*	*282*	*50*	*240*	*360*	
ND	315	-	322	385	50	340	374	ATV6L0C31Q6
HD	*250*	-	*262*	*313*	*50*	*275*	*413*	
ND	400	-	399	477	50	425	468	ATV6L0C40Q6
HD	*315*	-	*322*	*385*	*50*	*340*	*510*	
ND	450	-	446	533	50	480	528	ATV6L0C45Q6
HD	*355*	-	*359*	*429*	*50*	*384*	*576*	
ND	560	-	563	673	50	590	649	ATV6L0C56Q6
HD	*450*	-	*462*	*552*	*50*	*480*	*720*	
ND	710	-	700	837	50	740	814	ATV6L0C71Q6
HD	*560*	-	*563*	*673*	*50*	*590*	*885*	
ND	900	-	875	1046	50	930	1023	ATV6L0C90Q6
HD	*710*	-	*700*	*837*	*50*	*740*	*1110*	
ND	1200	-	1260	1506	50	1230	1353	ATV6L0M12Q6
HD	*1000*	-	*976*	*1166*	*50*	*1030*	*1545*	
ND	1400	-	1355	1619	50	1425	1568	ATV6L0M14Q6
HD	*1100*	-	*1070*	*1279*	*50*	*1130*	*1695*	
ND	1600	-	1547	1849	50	1620	1782	ATV6L0M16Q6
HD	*1300*	-	*1262*	*1508*	*50*	*1330*	*1995*	
ND	1800	-	1740	2080	50	1820	2002	ATV6L0M18Q6
HD	*1400*	-	*1357*	*1622*	*50*	*1425*	*2138*	
ND	2200	-	2128	2543	50	2220	2442	ATV6L0M22Q6
HD	*1700*	-	*1644*	*1965*	*50*	*1720*	*2580*	
ND	2600	-	2517	3008	50	2620	2882	ATV6L0M26Q6
HD	*2100*	-	*2030*	*2426*	*50*	*2120*	*3180*	

(1) Integrated motor chokes allowing a shielded motor cable length up to 300 m/984 ft in category C3.
(2) These values are given for a nominal switching frequency of 2.5 kHz for use in continuous operation.
The switching frequency is adjustable from 2 to 4.9 kHz for all ratings.
Above 2.5 kHz, the drive will automatically reduce the switching frequency in the event of an excessive temperature rise.
For continuous operation above the nominal switching frequency, derate the nominal drive current (see the derating curves in the Integration Manual).
(3) Typical value for the indicated motor power and for the maximum prospective line Isc.
(4) APM-L architecture is ready for 12-pulse supply, which allows a THDi ≤9%.

Variable speed drives
Altivar Process Modular
Modular Liquid-cooled drives
Three-phase supply voltage: 690 V 50/60 Hz

ATVM_CP20136

ATV9L0M22Q6

ATVM_CP20136

ATV9L0M26Q6

690 V (-15...10%) IP00 Modular Liquid-cooled drives *(1)*

Motor			Line supply			Altivar Process		
Power indicated on rating plate *(2)*			Line current *(3)*	Apparent power	Maximum prospective line Isc	Maximum continuous current *(2)*	Max. transient current for 60 s	Reference
ND: Normal duty *HD: Heavy duty*			690 V	690 V				
	kW	*HP*	A	kVA	kA	A	A	
Altivar Process Modular Liquid-cooled								
THDi ≤ 48% at 100% load in Normal duty with 6-pulse supply *(4)*								
ND	200	-	218	261	50	215	258	ATV9L0C20Q6
HD	*160*	-	*184*	*220*	*50*	*175*	*263*	
ND	280	-	290	347	50	308	370	ATV9L0C28Q6
HD	*220*	-	*236*	*282*	*50*	*240*	*360*	
ND	315	-	322	385	50	340	408	ATV9L0C31Q6
HD	*250*	-	*262*	*313*	*50*	*275*	*413*	
ND	400	-	399	477	50	425	510	ATV9L0C40Q6
HD	*315*	-	*322*	*385*	*50*	*340*	*510*	
ND	450	-	446	533	50	480	576	ATV9L0C45Q6
HD	*355*	-	*359*	*429*	*50*	*384*	*576*	
ND	560	-	563	673	50	590	708	ATV9L0C56Q6
HD	*450*	-	*462*	*552*	*50*	*480*	*720*	
ND	710	-	700	837	50	740	888	ATV9L0C71Q6
HD	*560*	-	*563*	*673*	*50*	*590*	*885*	
ND	900	-	875	1046	50	930	1116	ATV9L0C90Q6
HD	*710*	-	*700*	*837*	*50*	*740*	*1110*	
ND	1200	-	1260	1506	50	1230	1476	ATV9L0M12Q6
HD	*1000*	-	*976*	*1166*	*50*	*1030*	*1545*	
ND	1400	-	1355	1619	50	1425	1710	ATV9L0M14Q6
HD	*1100*	-	*1070*	*1279*	*50*	*1130*	*1695*	
ND	1600	-	1547	1849	50	1620	1944	ATV9L0M16Q6
HD	*1300*	-	*1262*	*1508*	*50*	*1330*	*1995*	
ND	1800	-	1740	2080	50	1820	2184	ATV9L0M18Q6
HD	*1400*	-	*1357*	*1622*	*50*	*1425*	*2138*	
ND	2200	-	2128	2543	50	2220	2664	ATV9L0M22Q6
HD	*1700*	-	*1644*	*1965*	*50*	*1720*	*2580*	
ND	2600	-	2517	3008	50	2620	3144	ATV9L0M26Q6
HD	*2100*	-	*2030*	*2426*	*50*	*2120*	*3180*	

(1) Integrated motor chokes allowing a shielded motor cable length up to 300 m/984 ft in category C3.

(2) These values are given for a nominal switching frequency of 2.5 kHz for use in continuous operation.
The switching frequency is adjustable from 2 to 4.9 kHz for all ratings.
Above 2.5 kHz, the drive will automatically reduce the switching frequency in the event of an excessive temperature rise.
For continuous operation above the nominal switching frequency, derate the nominal drive current (see the derating curves in the Integration Manual).

(3) Typical value for the indicated motor power and for the maximum prospective line Isc.

(4) APM-L architecture is ready for 12-pulse supply, which allows a THDi ≤9%.

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Variable speed drives
Altivar Process Modular
Braking units 400 V power supply
Standard and Low Harmonic/Regenerative drives

MODBUOC16Q4APM

Braking units 400 V power supply

Drive				Braking unit						
Nominal power			Reference	Power rating		Minimum resistor value	Braking power			Reference
ND: Normal duty *HD: Heavy duty*							Cycle *(1)*			
							1	2	3	
	kW	*HP*		kW	*HP*	Ω				
400 V power supply - Standard drives										
ND	110	–	ATV9A0C11Q4	160	–	3x 6.7	198	116.16	75	MODBUOC16Q4APM
HD	*90*	–								
ND	132	–	ATV9A0C13Q4							
HD	*110*	–								
ND	160	–	ATV9A0C16Q4							
HD	*132*	–								
ND	200	–	ATV9A0C20Q4	315	–	3x 3.35	375	220	130	MODBUOC31Q4APM
HD	*160*	–								
ND	250	–	ATV9A0C25Q4							
HD	*200*	–								
ND	315	–	ATV9A0C31Q4							
HD	*250*	–								
ND	355	–	ATV9A0C35Q4	500	–	3x 2.23	600	352	225	MODBUOC50Q4APM
HD	*280*	–								
ND	400	–	ATV9A0C40Q4							
HD	*315*	–								
ND	450	–	ATV9A0C45Q4							
HD	*355*	–								
ND	500	–	ATV9A0C50Q4							
HD	*400*	–								
ND	560	–	ATV9A0C56Q4	630	–	6x 3.35	750	440	260	MODBUOC63Q4APM
ND	630	–	ATV9A0C63Q4							
ND	710	–	ATV9A0C71Q4	800	–	6x 2.68 or 3x 2.23 + 3x 3.35	945	554.4	355	MODBUOC80Q4APM
ND	800	–	ATV9A0C80Q4							
400 V power supply - Low Harmonic/Regenerative drives										
ND	110	–	ATV9B0C11Q4	160	–	3x 6.7	198	116.16	75	MODBUOC16Q4APM
HD	*90*	–								
ND	132	–	ATV9B0C13Q4							
HD	*110*	–								
ND	160	–	ATV9B0C16Q4							
HD	*132*	–								
ND	200	–	ATV9B0C20Q4	315	–	3x 3.35	375	220	130	MODBUOC31Q4APM
HD	*160*	–								
ND	250	–	ATV9B0C25Q4							
HD	*200*	–								
ND	315	–	ATV9B0C31Q4							
HD	*250*	–								
ND	355	–	ATV9B0C35Q4	500		3x 2.23	600	352	225	MODBUOC50Q4APM
HD	*280*	–		–						
ND	400	–	ATV9B0C40Q4							
HD	*315*	–								
ND	450	–	ATV9B0C45Q4							
HD	*355*	–								
ND	500	–	ATV9B0C50Q4							
HD	*400*	–								
HD	*450*	–	ATV9B0C56Q4							
HD	*500*	–	ATV9B0C63Q4							
HD	*560*	–	ATV9B0C71Q4							
HD	*630*	–	ATV9B0C80Q4							

(1) Value of the average power that can be dissipated at 50 °C/122 °F. For a 240 s period:
- *Cycle 1: 12 s braking at overload (=5%)*
- *Cycle 2: 120 s braking at overload (=50%)*
- *Cycle 3: 240 s continuous braking (=100%)*

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Variable speed drives
Altivar Process Modular
Braking units 400 V power supply
Liquid-cooled drives

MODBUOC16Q4APM

Braking units 400 V power supply (continued)

Drive				Braking unit						
Nominal power			Reference	Power rating		Minimum resistor value	Braking power			Reference
ND: Normal duty *HD: Heavy duty*							Cycle *(1)*			
							1	2	3	
	kW	*HP*		kW	*HP*	Ω				
400 V power supply - Liquid-cooled drives										
ND	132	-	ATV9L0C13Q4	160	–	3x 6.7	198	116.16	75	MODBUOC16Q4APM
HD	110	-								
ND	160	-	ATV9L0C16Q4							
HD	132	-								
ND	200	-	ATV9L0C20Q4	315	–	3x 3.35	375	220	130	MODBUOC31Q4APM
HD	160	-								
ND	250	-	ATV9L0C25Q4							
HD	200	-								
ND	315	-	ATV9L0C31Q4							
HD	250	-								
ND	400	-	ATV9L0C40Q4	500	–	3x 2.23	600	352	225	MODBUOC50Q4APM
HD	315	-								
ND	500	-	ATV9L0C50Q4							
HD	400	-								
ND	630	-	ATV9L0C63Q4	630	–	6x 3.35	750	440	260	MODBUOC63Q4APM
HD	500	-								
ND	800	-	ATV9L0C80Q4	800	–	6x 2.68 or 3x 2.23 + 3x 3.35	945	554.4	355	MODBUOC80Q4APM
HD	630	-								
ND	900	-	ATV9L0C90Q4							
HD	710	-								
ND	1000	-	ATV9L0M10Q4							
HD	800	-								
ND	1200	-	ATV9L0M12Q4							
HD	1000	-								
ND	1500	-	ATV9L0M15Q4							
HD	1200	-								
ND	1800	-	ATV9L0M18Q4							
HD	1400	-								

(1) Value of the average power that can be dissipated at 50 °C/122 °F. For a 240 s period:
- *Cycle 1: 12 s braking at overload (=5%)*
- *Cycle 2: 120 s braking at overload (=50%)*
- *Cycle 3: 240 s continuous braking (=100%)*

Variable speed drives
Altivar Process Modular
Braking units 440 V power supply
Standard and Low Harmonic/Regenerative drives

ATVM_CP19039B

MODBUOC16R4APM

Braking units 440 V power supply

Drive				Braking unit						
Nominal power			Reference	Power rating		Minimum resistor value	Braking power			Reference
ND: Normal duty *HD: Heavy duty*							Cycle *(1)*			
							1	2	3	
	kW	*HP*		kW	*HP*	Ω				
440 V power supply - Standard drives										
ND	110	–	ATV9A0C11R4	160	–	3x 6.7	198	116.16	75	MODBUOC16R4APM
HD	90	–								
ND	132	–	ATV9A0C13R4							
HD	110	–								
ND	160	–	ATV9A0C16R4							
HD	132	–								
ND	200	–	ATV9A0C20R4	315	–	3x 3.35	375	220	130	MODBUOC31R4APM
HD	160	–								
ND	250	–	ATV9A0C25R4							
HD	200	–								
ND	315	–	ATV9A0C31R4							
HD	250	–								
ND	355	–	ATV9A0C35R4	500	–	3x 2.23	600	352	225	MODBUOC50R4APM
HD	280	–								
ND	400	–	ATV9A0C40R4							
HD	315	–								
ND	450	–	ATV9A0C45R4							
HD	355	–								
ND	500	–	ATV9A0C50R4							
HD	400	–								
ND	560	–	ATV9A0C56R4	630	–	6x 3.35	750	440	260	MODBUOC63R4APM
ND	630	–	ATV9A0C63R4							
ND	710	–	ATV9A0C71R4	800	–	6x 2.68 or 3x 2.23 + 3x 3.35	945	554.4	355	MODBUOC80R4APM
ND	800	–	ATV9A0C80R4							
440 V power supply - Low Harmonic/Regenerative drives										
ND	110	–	ATV9B0C11R4	160	–	3x 6.7	198	116.16	75	MODBUOC16R4APM
HD	90	–								
ND	132	–	ATV9B0C13R4							
HD	110	–								
ND	160	–	ATV9B0C16R4							
HD	132	–								
ND	200	–	ATV9B0C20R4	315	–	3x 3.35	375	220	130	MODBUOC31R4APM
HD	160	–								
ND	250	–	ATV9B0C25R4							
HD	200	–								
ND	315	–	ATV9B0C31R4							
HD	250	–								
ND	355	–	ATV9B0C35R4	500	–	3x 2.23	600	352	225	MODBUOC50R4APM
HD	280	–								
ND	400	–	ATV9B0C40R4							
HD	315	–								
ND	450	–	ATV9B0C45R4							
HD	355	–								
ND	500	–	ATV9B0C50R4							
HD	400	–								
HD	*450*	–	ATV9B0C56Q4							
HD	*500*	–	ATV9B0C63Q4							
HD	*560*	–	ATV9B0C71Q4							
HD	*630*	–	ATV9B0C80Q4							

(1) Value of the average power that can be dissipated at 50 °C/122 °F. For a 240 s period:
- *Cycle 1: 12 s braking at overload (=5%)*
- *Cycle 2: 120 s braking at overload (=50%)*
- *Cycle 3: 240 s continuous braking (=100%)*

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Variable speed drives
Altivar Process Modular
Braking units 440 V power supply
Liquid-cooled drives

MODBUOC16R4APM

Braking units 440 V power supply (continued)

Drive				Braking unit						
Nominal power			Reference	Power rating		Minimum resistor value	Braking power			Reference
ND: Normal duty *HD: Heavy duty*							Cycle *(1)*			
							1	2	3	
	kW	*HP*		kW	*HP*	Ω				
440 V power supply - Liquid-cooled drives										
ND	132	-	ATV9L0C13R4	160	–	3x 6.7	198	116.16	75	MODBUOC16R4APM
HD	110	-								
ND	160	-	ATV9L0C16R4							
HD	132	-								
ND	200	-	ATV9L0C20R4	315	–	3x 3.35	375	220	130	MODBUOC31R4APM
HD	160	-								
ND	250	-	ATV9L0C25R4							
HD	200	-								
ND	315	-	ATV9L0C31R4							
HD	250	-								
ND	400	-	ATV9L0C40R4	500	–	3x 2.23	600	352	225	MODBUOC50R4APM
HD	315	-								
ND	500	-	ATV9L0C50R4							
HD	400	-								
ND	630	-	ATV9L0C63R4	630	–	6x 3.35	750	440	260	MODBUOC63R4APM
HD	500	-								
ND	800	-	ATV9L0C80R4	800	–	6x 2.68 or 3x 2.23 + 3x 3.35	945	554.4	355	MODBUOC80R4APM
HD	630	-								
ND	900	-	ATV9L0C90R4							
HD	710	-								
ND	1000	-	ATV9L0M10R4							
HD	800	-								
ND	1200	-	ATV9L0M12R4							
HD	1000	-								
ND	1500	-	ATV9L0M15R4							
HD	1200	-								
ND	1800	-	ATV9L0M18R4							
HD	1400	-								

(1) Value of the average power that can be dissipated at 50 °C/122 °F. For a 240 s period:
- *Cycle 1: 12 s braking at overload (=5%)*
- *Cycle 2: 120 s braking at overload (=50%)*
- *Cycle 3: 240 s continuous braking (=100%)*

Variable speed drives
Altivar Process Modular
Braking units 480 V power supply
Standard and Low Harmonic/Regenerative drives

ATVM_OP19057

MODBUOC80T4APM

Braking units 480 V power supply

Drive				Braking unit						
Nominal power			Reference	Power rating		Minimum resistor value	Braking power			Reference
ND: Normal duty *HD: Heavy duty*							Cycle *(1)*			
							1	2	3	
	kW	*HP*		kW	*HP*	Ω				
480 V power supply - Standard drives										
ND	–	*150*	ATV9A0C11T4	–	*250*	3x 6.7	198	116.16	75	MODBUOC16T4APM
HD	–	*125*								
ND	–	*200*	ATV9A0C13T4							
HD	–	*150*								
ND	–	*250*	ATV9A0C16T4							
HD	–	*200*								
ND	–	*300*	ATV9A0C20T4	–	*500*	3x 3.35	375	220	130	MODBUOC31T4APM
HD	–	*250*								
ND	–	*400*	ATV9A0C25T4							
HD	–	*300*								
ND	–	*500*	ATV9A0C31T4							
HD	–	*400*								
ND	–	*550*	ATV9A0C35T4	–	*700*	3x 2.23	600	352	225	MODBUOC50T4APM
HD	–	*450*								
ND	–	*600*	ATV9A0C40T4							
HD	–	*500*								
ND	–	*650*	ATV9A0C45T4							
HD	–	*550*								
ND	–	*700*	ATV9A0C50T4							
HD	–	*600*								
ND	–	*800*	ATV9A0C56T4	–	*900*	6x 3.35	750	440	260	MODBUOC63T4APM
ND	–	*900*	ATV9A0C63T4							
ND	–	*1000*	ATV9A0C71T4	–	*1100*	6x 2.68 or 3x 2.23 + 3x 3.35	945	554.4	355	MODBUOC80T4APM
ND	–	*1100*	ATV9A0C80T4							
480 V power supply - Low Harmonic/Regenerative drives										
ND	–	*150*	ATV9B0C11T4	–	*250*	3x 6.7	198	116.16	75	MODBUOC16T4APM
HD	–	*125*								
ND	–	*200*	ATV9B0C13T4							
HD	–	*150*								
ND	–	*250*	ATV9B0C16T4							
HD	–	*200*								
ND	–	*300*	ATV9B0C20T4	–	*500*	3x 3.35	375	220	130	MODBUOC31T4APM
HD	–	*250*								
ND	–	*400*	ATV9B0C25T4							
HD	–	*300*								
ND	–	*500*	ATV9B0C31T4							
HD	–	*400*								
ND	–	*550*	ATV9B0C35T4	–	*700*	3x 2.23	600	352	225	MODBUOC50T4APM
HD	–	*450*								
ND	–	*600*	ATV9B0C40T4							
HD	–	*500*								
ND	–	*650*	ATV9B0C45T4							
HD	–	*550*								
ND	–	*700*	ATV9B0C50T4							
HD	–	*600*								
HD	–	*650*	ATV9B0C56T4							
HD	–	*700*	ATV9B0C63T4							
HD	–	*800*	ATV9B0C71T4							
HD	–	*900*	ATV9B0C80T4							

(1) Value of the average power that can be dissipated at 50 °C/122 °F. For a 240 s period:
- *Cycle 1: 12 s braking at overload (=5%)*
- *Cycle 2: 120 s braking at overload (=50%)*
- *Cycle 3: 240 s continuous braking (=100%)*

Variable speed drives
Altivar Process Modular
Braking units 480 V power supply
Liquid-cooled drives

MODBUOC16T4APM

Braking units 480 V power supply (continued)

Drive				Braking unit						
Nominal power			Reference	Power rating		Minimum resistor value	Braking power			Reference
ND: Normal duty *HD: Heavy duty*							Cycle *(1)*			
							1	2	3	
	kW	*HP*		kW	*HP*	Ω				
480 V power supply - Liquid-cooled drives										
ND	-	200	ATV9L0C13T4	–	250	3x 6.7	198	116.16	75	MODBUOC16T4APM
HD	-	150								
ND	-	250	ATV9L0C16T4							
HD	-	200								
ND	-	300	ATV9L0C20T4	–	500	3x 3.35	375	220	130	MODBUOC31T4APM
HD	-	250								
ND	-	400	ATV9L0C25T4							
HD	-	300								
ND	-	500	ATV9L0C31T4							
HD	-	400								
ND	-	600	ATV9L0C40T4	–	700	3x 2.23	600	352	225	MODBUOC50T4APM
HD	-	500								
ND	-	700	ATV9L0C50T4							
HD	-	600								
ND	-	900	ATV9L0C63T4	–	900	6x 3.35	750	440	260	MODBUOC63T4APM
HD	-	700								
ND	-	1100	ATV9L0C80T4	–	1100	6x 2.68 or 3x 2.23 + 3x 3.35	945	554.4	355	MODBUOC80T4APM
HD	-	900								
ND	-	1300	ATV9L0C90T4							
HD	-	1000								
ND	-	1400	ATV9L0M10T4							
HD	-	1100								
ND	-	1700	ATV9L0M12T4							
HD	-	1400								
ND	-	2200	ATV9L0M15T4							
HD	-	1700								
ND	-	2500	ATV9L0M18T4							
HD	-	2000								

(1) Value of the average power that can be dissipated at 50 °C/122 °F. For a 240 s period:
- *Cycle 1: 12 s braking at overload (=5%)*
- *Cycle 2: 120 s braking at overload (=50%)*
- *Cycle 3: 240 s continuous braking (=100%)*

Variable speed drives
Altivar Process Modular
Braking units 500 V power supply
Standard and Liquid-cooled drives

MODBUOC40N6APM

Braking units 500 V power supply

Drive				Braking unit						
Nominal power			Reference	Power rating		Minimum resistor value	Braking power			Reference
ND: Normal duty *HD: Heavy duty*							Cycle *(1)*			
							1	2	3	
	kW	*HP*		kW	HP	Ω				
500 V power supply - Standard drives										
ND	75	–	ATV9A0C11N6	132	–	3x 11	240	140.8	85	MODBUOC20N6APM
HD	*55*	–								
ND	90	–	ATV9A0C13N6							
HD	*75*	–								
ND	110	–	ATV9A0C16N6							
HD	*90*	–								
ND	132	–	ATV9A0C20N6							
HD	*110*	–								
ND	160	–	ATV9A0C25N6	280	–	3x 5.5	472.5	277.2	165	MODBUOC40N6APM
HD	*132*	–								
ND	220	–	ATV9A0C31N6							
HD	*160*	–								
ND	280	–	ATV9A0C40N6							
HD	*220*	–								
ND	355	–	ATV9A0C50N6	450	–	3x 3.67	750	440	285	MODBUOC63N6APM
HD	*280*	–								
ND	450	–	ATV9A0C63N6							
HD	*355*	–								
ND	560	–	ATV9A0C80N6	560	–	6x 5.5	945	554.4	330	MODBUOC80N6APM
HD	*450*	–								
ND	710	–	ATV9A0M10N6	710	–	6x 4.4 or 3x 3.67 + 3x 5.5	1200	704	450	MODBUOM10N6APM
HD	*560*	–								
ND	800	–	ATV9A0M12N6	800	–	6x 3.67	1500	785	550	MODBUOM12N6APM
HD	*710*	–								
500 V power supply - Liquid-cooled drives										
ND	132	-	ATV9L0C20N6	132	–	3x 11	240	140.8	85	MODBUOC20N6APM
HD	110	-								
ND	200	-	ATV9L0C28N6	280	–	3x 5.5	472.5	277.2	165	MODBUOC40N6APM
HD	160	-								
ND	220	-	ATV9L0C31N6							
HD	180	-								
ND	250	-	ATV9L0C40N6							
HD	220	-								
ND	315	-	ATV9L0C45N6	450	–	3x 3.67	750	440	285	MODBUOC63N6APM
HD	250	-								
ND	400	-	ATV9L0C56N6							
HD	315	-								
ND	500	-	ATV9L0C71N6	560	–	6x 5.5	945	554.4	330	MODBUOC80N6APM
HD	400	-								
ND	630	-	ATV9L0C90N6	710	–	6x 4.4 or 3x 3.67 + 3x 5.5	1200	704	450	MODBUOM10N6APM
HD	500	-								
ND	800	-	ATV9L0M12N6	800	–	6x 3.67	1500	785	550	MODBUOM12N6APM
HD	710	-								
ND	1000	-	ATV9L0M14N6							
HD	800	-								
ND	1200	-	ATV9L0M16N6							
HD	900	-								
ND	1300	-	ATV9L0M18N6							
HD	1000	-								
ND	1600	-	ATV9L0M22N6							
HD	1200	-								
ND	1900	-	ATV9L0M26N6							
HD	1500	-								

(1) Value of the average power that can be dissipated at 50 °C/122 °F. For a 240 s period:
- Cycle 1: 12 s braking at overload (=5%)
- Cycle 2: 120 s braking at overload (=50%)
- Cycle 3: 240 s continuous braking (=100%)

Variable speed drives
Altivar Process Modular
Braking units 600 V power supply
Standard and Liquid-cooled drives

MODBUOC40T6APM

Braking units 600 V power supply

Drive				Braking unit						
Nominal power ND: Normal duty *HD: Heavy duty*			Reference	Power rating		Minimum resistor value	Braking power Cycle *(1)*			Reference
							1	2	3	
	kW	*HP*		kW	HP	Ω				
600 V power supply - Standard drives										
ND	–	125	ATV9A0C11T6	–	*200*	3x 11	240	140.8	85	MODBUOC20T6APM
HD	–	100								
ND	–	150	ATV9A0C13T6							
HD	–	125								
ND	–	175	ATV9A0C16T6							
HD	–	150								
ND	–	200	ATV9A0C20T6							
HD	–	175								
ND	–	250	ATV9A0C25T6	–	*450*	3x 5.5	472.5	277.2	165	MODBUOC40T6APM
HD	–	200								
ND	–	350	ATV9A0C31T6							
HD	–	250								
ND	–	450	ATV9A0C40T6							
HD	–	350								
ND	–	550	ATV9A0C50T6	–	*650*	3x 3.67	750	440	285	MODBUOC63T6APM
HD	–	450								
ND	–	650	ATV9A0C63T6							
HD	–	550								
ND	–	800	ATV9A0C80T6	–	*800*	6x 5.5	945	554.4	330	MODBUOC80T6APM
HD	–	650								
ND	–	1000	ATV9A0M10T6	–	*1000*	6x 4.4 or 3x 3.67 + 3x 5.5	1200	704	450	MODBUOM10T6APM
HD	–	800								
ND	–	1200	ATV9A0M12T6	–	*1200*	6x 3.67	1500	785	550	MODBUOM12T6APM
HD	–	1000								
600 V power supply - Liquid-cooled drives										
ND	-	200	ATV9L0C20T6	–	200	3x 11	240	140.8	85	MODBUOC20T6APM
HD	-	150								
ND	-	300	ATV9L0C28T6	–	450	3x 5.5	472.5	277.2	165	MODBUOC40T6APM
HD	-	200								
ND	-	350	ATV9L0C31T6							
HD	-	250								
ND	-	450	ATV9L0C40T6							
HD	-	350								
ND	-	500	ATV9L0C45T6	–	650	3x 3.67	750	440	285	MODBUOC63T6APM
HD	-	400								
ND	-	600	ATV9L0C56T6							
HD	-	500								
ND	-	700	ATV9L0C71T6	–	800	6x 5.5	945	554.4	330	MODBUOC80T6APM
HD	-	600								
ND	-	900	ATV9L0C90T6	–	1000	6x 4.4 or 3x 3.67 + 3x 5.5	1200	704	450	MODBUOM10T6APM
HD	-	700								
ND	-	1200	ATV9L0M12T6	–	1200	6x 3.67	1500	785	550	MODBUOM12T6APM
HD	-	1000								
ND	-	1400	ATV9L0M14T6							
HD	-	1100								
ND	-	1600	ATV9L0M16T6							
HD	-	1300								
ND	-	1800	ATV9L0M18T6							
HD	-	1400								
ND	-	2200	ATV9L0M22T6							
HD	-	1700								
ND	-	2600	ATV9L0M26T6							
HD	-	2100								

(1) Value of the average power that can be dissipated at 50 °C/122 °F. For a 240 s period:
- Cycle 1: 12 s braking at overload (=5%)
- Cycle 2: 120 s braking at overload (=50%)
- Cycle 3: 240 s continuous braking (=100%)

Variable speed drives
Altivar Process Modular
Braking units 690 V power supply
Standard and Liquid-cooled drives

MODBUOM12Q6APM

Braking units 690 V power supply

Drive				Braking unit						
Nominal power ND: Normal duty *HD: Heavy duty*			Reference	Power rating		Minimum resistor value	Braking power Cycle *(1)*			Reference
							1	2	3	
	kW	*HP*		kW	*HP*	Ω				
690 V power supply - Standard drives										
ND	110	–	ATV9A0C11Q6	200	–	3x 11	240	140.8	85	MODBUOC20Q6APM
HD	*90*	–								
ND	132	–	ATV9A0C13Q6							
HD	*110*	–								
ND	160	–	ATV9A0C16Q6							
HD	*132*	–								
ND	200	–	ATV9A0C20Q6							
HD	*160*	–								
ND	250	–	ATV9A0C25Q6	400	–	3x 5.5	472.5	277.2	165	MODBUOC40Q6APM
HD	*200*	–								
ND	315	–	ATV9A0C31Q6							
HD	*250*	–								
ND	400	–	ATV9A0C40Q6							
HD	*315*	–								
ND	500	–	ATV9A0C50Q6	630	–	3x 3.67	750	440	285	MODBUOC63Q6APM
HD	*400*	–								
ND	630	–	ATV9A0C63Q6							
HD	*500*	–								
ND	800	–	ATV9A0C80Q6	800	–	6x 5.5	945	554.4	330	MODBUOC80Q6APM
HD	*630*	–								
ND	1000	–	ATV9A0M10Q6	1000	–	6x 4.4 or 3x 3.67 + 3x 5.5	1200	704	450	MODBUOM10Q6APM
HD	*800*	–								
ND	1200	–	ATV9A0M12Q6	1200	–	6x 3.67	1500	785	550	MODBUOM12Q6APM
HD	*1000*	–								
690 V power supply - Liquid-cooled drives										
ND	200	-	ATV9L0C20Q6	200	–	3x 11	240	140.8	85	MODBUOC20Q6APM
HD	160	-								
ND	280	-	ATV9L0C28Q6	400	–	3x 5.5	472.5	277.2	165	MODBUOC40Q6APM
HD	220	-								
ND	315	-	ATV9L0C31Q6							
HD	250	-								
ND	400	-	ATV9L0C40Q6							
HD	315	-								
ND	450	-	ATV9L0C45Q6	630	–	3x 3.67	750	440	285	MODBUOC63Q6APM
HD	355	-								
ND	560	-	ATV9L0C56Q6							
HD	450	-								
ND	710	-	ATV9L0C71Q6	800	–	6x 5.5	945	554.4	330	MODBUOC80Q6APM
HD	560	-								
ND	900	-	ATV9L0C90Q6	1000	–	6x 4.4 or 3x 3.67 + 3x 5.5	1200	704	450	MODBUOM10Q6APM
HD	710	-								
ND	1200	-	ATV9L0M12Q6	1200	–	6x 3.67	1500	785	550	MODBUOM12Q6APM
HD	1000	-								
ND	1400	-	ATV9L0M14Q6							
HD	1100	-								
ND	1600	-	ATV9L0M16Q6							
HD	1300	-								
ND	1800	-	ATV9L0M18Q6							
HD	1400	-								
ND	2200	-	ATV9L0M22Q6							
HD	1700	-								
ND	2600	-	ATV9L0M26Q6							
HD	2100	-								

(1) Value of the average power that can be dissipated at 50 °C/122 °F. For a 240 s period:
- Cycle 1: 12 s braking at overload (=5%)
- Cycle 2: 120 s braking at overload (=50%)
- Cycle 3: 240 s continuous braking (=100%)

Variable speed drives
Altivar Process Modular
Standard architectures without braking unit
400...480 V power supply

Variable speed drives
Altivar Process Modular
Standard architectures without braking unit
500...690 V power supply

Table showing possible combinations to create architectures

Motor		Drive	Control units	Power modules	Front covers	Cabinets for IP 20/21/23/40/41/43/54 integration			
ND: Normal duty HD: Heavy duty						400 mm width	600 mm width	800 mm width	1,000 mm width
kW	*HP*								
Standard drives three-phase supply voltage: 400…480 V 50/60 Hz									
ND 110…160 HD 90…132		ATV6A0C11Q4...C16Q4 ATV6A0C11R4...C16R4	1 x APM6A0CTLN401	1 x APM1A0C16N401	–	1	–	–	–
		ATV9A0C11Q4...C16Q4 ATV9A0C11R4...C16R4	1 x APM9A0CTLN401						
	ND 150…250 *HD 125…200*	ATV6A0C11T4...C16T4 ATV9A0C11T4...C16T4	1 x APM6A0CTLN401 1 x APM9A0CTLN401						
ND 200…315 HD 160…250		ATV6A0C20Q4...C31Q4 ATV6A0C20R4...C31R4	1 x APM6A0CTLN401	2 x APM1A0C16N401	1 x VW3A97A01	–	1	–	–
		ATV9A0C20Q4...C31Q4 ATV9A0C20R4...C31R4	1 x APM9A0CTLN401						
	ND 300…500 *HD 250…400*	ATV6A0C20T4...C31T4 ATV9A0C20T4...C31T4	1 x APM6A0CTLN401 1 x APM9A0CTLN401						
ND 355…500 HD 280…400		ATV6A0C35Q4...C50Q4 ATV6A0C35R4...C50R4	1 x APM6A0CTLN401	3 x APM1A0C16N401	2 x VW3A97A01	–	–	1	–
		ATV9A0C35Q4...C50Q4 ATV9A0C35R4...C50R4	1 x APM9A0CTLN401						
	ND 550…700 *HD 450…600*	ATV6A0C35T4...C50T4 ATV9A0C35T4...C50T4	1 x APM6A0CTLN401 1 x APM9A0CTLN401						
ND 560…630 HD 450…500		ATV6A0C56Q4...C63Q4 ATV6A0C56R4...C63R4	1 x APM6A0CTLN401	4 x APM1A0C16N401	3 x VW3A97A01	–	2	–	–
		ATV9A0C56Q4...C63Q4 ATV9A0C56R4...C63R4	1 x APM9A0CTLN401						
	ND 800…900 *HD 650…700*	ATV6A0C56T4...C63T4 ATV9A0C56T4...C63T4	1 x APM6A0CTLN401 1 x APM9A0CTLN401						
ND 710…800 HD 560…630		ATV6A0C71Q4...C80Q4 ATV6A0C71R4...C80R4	1 x APM6A0CTLN401	5 x APM1A0C16N401	4 x VW3A97A01	–	1	1	–
		ATV9A0C71Q4...C80Q4 ATV9A0C71R4...C80R4	1 x APM9A0CTLN401						
	ND 1000…1100 *HD 800…900*	ATV6A0C71T4...C80T4 ATV9A0C71T4...C80T4	1 x APM6A0CTLN401 1 x APM9A0CTLN401						
Low Harmonic/Regenerative drives three-phase supply voltage: 400…480 V 50/60 Hz									
ND 110…160 HD 90…132		ATV6B0C11Q4...C16Q4 ATV6B0C11R4...C16R4	1 x APM6B0CTLN4	1 x APM1B0C16N4	–	–	1	–	–
		ATV9B0C11Q4...C16Q4 ATV9B0C11R4...C16R4	1 x APM9B0CTLN4						
	ND 150…250 *HD 125…200*	ATV6B0C11T4...C16T4 ATV9B0C11T4...C16T4	1 x APM6B0CTLN4 1 x APM9B0CTLN4						
ND 200…315 HD 160…250		ATV6B0C20Q4...C31Q4 ATV6B0C20R4...C31R4	1 x APM6B0CTLN4	2 x APM1B0C16N4	1 x VW3A97B01	–	–	–	1
		ATV9B0C20Q4...C31Q4 ATV9B0C20R4...C31R4	1 x APM9B0CTLN4						
	ND 300…500 *HD 250…400*	ATV6B0C20T4...C31T4 ATV9B0C20T4...C31T4	1 x APM6B0CTLN4 1 x APM9B0CTLN4						
ND 355…500 HD 280…400		ATV6B0C35Q4...C50Q4 ATV6B0C35R4...C50R4	1 x APM6B0CTLN4	3 x APM1B0C16N4	2 x VW3A97B01	–	1	–	1
		ATV9B0C35Q4...C50Q4 ATV9B0C35R4...C50R4	1 x APM9B0CTLN4						
	ND 550…700 *HD 450…600*	ATV6B0C35T4...C50T4 ATV9B0C35T4...C50T4	1 x APM6B0CTLN4 1 x APM9B0CTLN4						
ND 560…630 HD 450…500		ATV6B0C56Q4...C63Q4 ATV6B0C56R4...C63R4	1 x APM6B0CTLN4	4 x APM1B0C16N4	3 x VW3A97B01	–	–	–	2
		ATV9B0C56Q4...C63Q4 ATV9B0C56R4...C63R4	1 x APM9B0CTLN4						
	ND 800…900 *HD 650…700*	ATV6B0C56T4...C63T4 ATV9B0C56T4...C63T4	1 x APM6B0CTLN4 1 x APM9B0CTLN4						
ND 710…800 HD 560…630		ATV6B0C71Q4...C80Q4 ATV6B0C71R4...C80R4	1 x APM6B0CTLN4	5 x APM1B0C16N4	4 x VW3A97B01	–	1	–	2
		ATV9B0C71Q4...C80Q4 ATV9B0C71R4...C80R4	1 x APM9B0CTLN4						
	ND 1000…1100 *HD 800…900*	ATV6B0C71T4...C80T4 ATV9B0C71T4...C80T4	1 x APM6B0CTLN4 1 x APM9B0CTLN4						
Pages		35	22	20	23	*(1) (2)*			

(1) These cabinet recommendations are for standard integration. For flexible solutions, please contact your Schneider Electric supplier.
(2) Cabinets must have a minimum depth of 600 mm/23.6 in., and a minimum height of:
- *2,150 mm/84.6 in. (including the roof-top extension) for IP20/21/23/40/41/43 standard cabinet integration*
- *2,350 mm/92.5 in. (including the plinth and roof-top extension) for IP54 standard cabinet integration*

Table showing possible combinations to create architectures

Motor		Drive	Control units	Power modules	Front covers	Cabinets for IP 20/21/23/40/41/43/54 integration			
ND: Normal duty HD: Heavy duty						400 mm width	600 mm width	800 mm width	1,000 mm width
kW	*HP*								
Standard drives three-phase supply voltage: 500…690 V 50/60 Hz									
ND 75…132 HD 55…110		ATV6A0C11N6...C20N6 ATV9A0C11N6...C20N6	1 x APM6A0CTLY6 1 x APM9A0CTLY6	1 x APM1A0C20Y6	–	1	–	–	–
ND 110…200 HD 90…160		ATV6A0C16Q6...C20Q6 ATV9A0C16Q6...C20Q6	1 x APM6A0CTLY6 1 x APM9A0CTLY6						
	ND 175…200 *HD 150…175*	ATV6A0C16T6...C20T6 ATV9A0C16T6...C20T6	1 x APM6A0CTLY6 1 x APM6A0CTLY6						
ND 160…280 HD 132…220		ATV6A0C25N6...C40N6 ATV9A0C25N6...C40N6	1 x APM6A0CTLY6 1 x APM9A0CTLY6	2 x APM1A0C20Y6	1 x VW3A97A01	–	1	–	–
ND 250…400 HD 200…315		ATV6A0C25Q6...C40Q6 ATV9A0C25Q6...C40Q6	1 x APM6A0CTLY6 1 x APM9A0CTLY6						
	ND 250…450 *HD 200…350*	ATV6A0C25T6...C40T6 ATV9A0C25T6...C40T6	1 x APM6A0CTLY6 1 x APM9A0CTLY6						
ND 355…450 HD 280…355		ATV6A0C50N6...C63N6 ATV9A0C50N6...C63N6	1 x APM6A0CTLY6 1 x APM9A0CTLY6	3 x APM1A0C20Y6	2 x VW3A97A01	–	–	1	–
ND 500…630 HD 400…500		ATV6A0C50Q6...C63Q6 ATV9A0C50Q6...C63Q6	1 x APM6A0CTLY6 1 x APM9A0CTLY6						
	ND 550…650 *HD 450…550*	ATV6A0C50T6...C63T6 ATV9A0C50T6...N63T6	1 x APM6A0CTLY6 1 x APM9A0CTLY6						
ND 560 HD 450		ATV6A0C80N6 ATV9A0C80N6	1 x APM6A0CTLY6 1 x APM9A0CTLY6	4 x APM1A0C20Y6	3 x VW3A97A01	–	2	–	–
ND 800 HD 630		ATV6A0C80Q6 ATV9A0C80Q6	1 x APM6A0CTLY6 1 x APM9A0CTLY6						
	ND 800 *HD 650*	ATV6A0C80T6 ATV9A0C80T6	1 x APM6A0CTLY6 1 x APM9A0CTLY6						
ND 710 HD 560		ATV6A0M10N6 ATV9A0M10N6	1 x APM6A0CTLY6 1 x APM9A0CTLY6	5 x APM1A0C20Y6	4 x VW3A97A01	–	1	1	–
ND 1000 HD 800		ATV6A0M10Q6 ATV9A0M10Q6	1 x APM6A0CTLY6 1 x APM9A0CTLY6						
	ND 1000 *HD 800*	ATV6A0M10T6 ATV9A0M10T6	1 x APM6A0CTLY6 1 x APM9A0CTLY6						
ND 800 HD 710		ATV6A0M12N6 ATV9A0M12N6	1 x APM6A0CTLY6 1 x APM9A0CTLY6	6 x APM1A0C20Y6	5 x VW3A97A01	–	–	2	–
ND 1200 HD 1000		ATV6A0M12Q6 ATV9A0M12Q6	1 x APM6A0CTLY6 1 x APM9A0CTLY6						
	ND 1200 *HD 1000*	ATV6A0M12T6 ATV9A0M12T6	1 x APM6A0CTLY6 1 x APM9A0CTLY6						
Low Harmonic/Regenerative drives three-phase supply voltage: 500…690 V 50/60 Hz									
ND 75...132 HD 55…110		ATV6B0C11N6...C20N6 ATV9B0C11N6...C20N6	1 x APM6B0CTLY6 1 x APM9B0CTLY6	1 x APM1B0C20Y6	–	–	1	–	–
ND 110…200 HD 90…160		ATV6B0C11Q6...C20Q6 ATV9B0C11Q6...C20Q6	1 x APM6B0CTLY6 1 x APM9B0CTLY6						
	ND 125…200 *HD 100…175*	ATV6B0C11T6...C20T6 ATV9B0C11T6...C20T6	1 x APM6B0CTLY6 1 x APM9B0CTLY6						
ND 160…280 HD 132…220		ATV6B0C25N6...C40N6 ATV9B0C25N6...C40N6	1 x APM6B0CTLY6 1 x APM9B0CTLY6	2 x APM1B0C20Y6	1 x VW3A97B01	–	–	–	1
ND 250…400 HD 200…315		ATV6B025Q6...C40Q6 ATV9B025Q6...C40Q6	1 x APM6B0CTLY6 1 x APM9B0CTLY6						
	ND 250…450 *HD 200…350*	ATV6B0C25T6...C40T6 ATV9B0C25T6...C40T6	1 x APM6B0CTLY6 1 x APM9B0CTLY6						
ND 355…450 HD 280…355		ATV6B0C50N6...C63N6 ATV9B0C50N6...C63N6	1 x APM6B0CTLY6 1 x APM9B0CTLY6	3 x APM1B0C20Y6	2 x VW3A97B01	–	1	–	1
ND 500…630 HD 400…500		ATV6B0C50Q6...C63Q6 ATV9B0C50Q6...C63Q6	1 x APM6B0CTLY6 1 x APM9B0CTLY6						
	ND 550…650 *HD 450…550*	ATV6B0C50T6...C63T6 ATV9B0C50T6...C63T6	1 x APM6B0CTLY6 1 x APM9B0CTLY6						
ND 560 HD 450		ATV6B0C80N6 ATV9B0C80N6	1 x APM6B0CTLY6 1 x APM9B0CTLY6	4 x APM1B0C20Y6	3 x VW3A97B01	–	–	–	2
ND 800 HD 630		ATV6B0C80Q6 ATV9B0C80Q6	1 x APM6B0CTLY6 1 x APM9B0CTLY6						
	ND 800 *HD 650*	ATV6B0C80T6 ATV9B0C80T6	1 x APM6B0CTLY6 1 x APM9B0CTLY6						
ND 710 HD 560		ATV6A0M10N6 ATV9A0M10N6	1 x APM6B0CTLY6 1 x APM9B0CTLY6	5 x APM1B0C20Y6	4 x VW3A97B01	–	1	–	2
ND 1000 HD 800		ATV6A0M10Q6 ATV9A0M10Q6	1 x APM6B0CTLY6 1 x APM9B0CTLY6						
	ND 1000 *HD 800*	ATV6A0M10T6 ATV9A0M10T6	1 x APM6B0CTLY6 1 x APM9B0CTLY6						
ND 800 HD 710		ATV6B0M12N6 ATV9B0M12N6	1 x APM6B0CTLY6 1 x APM9B0CTLY6	6 x APM1B0C20Y6	5 x VW3A97B01	–	–	–	3
ND 1200 HD 1000		ATV6B0M12Q6 ATV9B0M12Q6	1 x APM6B0CTLY6 1 x APM9B0CTLY6						
	ND 1200 *HD 1000*	ATV6B0M12T6 ATV9B0M12T6	1 x APM6B0CTLY6 1 x APM9B0CTLY6						
Pages		41	22	20	23	*(1) (2)*			

Variable speed drives
Altivar Process Modular
Standard architectures with braking unit
400...480 V power supply

Variable speed drives
Altivar Process Modular
Standard architectures with braking unit
500...690 V power supply

Table showing possible combinations to create architectures

Motor		Braking units	Control units for braking units	Braking unit power modules	Front covers for braking units	Cabinets (drive + braking unit) for IP 20/21/23/40/41/43/54 integration			
ND: Normal duty HD: Heavy duty						400 mm width	600 mm width	800 mm width	1,000 mm width
kW	*HP*								
Standard drives three-phase supply voltage: 400…480 V 50/60 Hz									
ND 110…160 HD 90…132		1 x MODBUOC16Q4APM 1 x MODBUOC16R4APM	1 x APMBC0CTLN4	1 x APMBC0C50N4	–	–	1	–	–
	ND 150…250 HD 125…200	1 x MODBUOC16T4APM							
ND 200…315 HD 160…250		1 x MODBUOC31Q4APM 1 x MODBUOC31R4APM	1 x APMBC0CTLN4	1 x APMBC0C50N4	–	–	–	1	–
	ND 300…500 HD 250…400	1 x MODBUOC31T4APM							
ND 355…500 HD 280…400		1 x MODBUOC50Q4APM 1 x MODBUOC50R4APM	1 x APMBC0CTLN4	1 x APMBC0C50N4	–	1	–	1	–
	ND 550…700 HD 450…600	1 x MODBUOC50T4APM							
ND 560…630 HD 450…500		2 x MODBUOC63Q4APM 2 x MODBUOC63R4APM	1 x APMBC0CTLN4	2 x APMBC0C50N4	1 x VW3A97A01	–	–	2	–
	ND 800…900 HD 650…700	2 x MODBUOC63T4APM							
ND 710…800 HD 560…630		2 x MODBUOC80Q4APM 2 x MODBUOC80R4APM	1 x APMBC0CTLN4	2 x APMBC0C50N4	1 x VW3A97A01	–	2	1	–
	ND 1000…1100 HD 800…900	2 x MODBUOC80T4APM							
Low Harmonic/Regenerative drives three-phase supply voltage: 400…480 V 50/60 Hz									
ND 110…160 HD 90…132		1 x MODBUOC16Q4APM 1 x MODBUOC16R4APM	1 x APMBC0CTLN4	1 x APMBC0C50N4	–	1	1	–	–
	ND 150…250 HD 125…200	1 x MODBUOC16T4APM							
ND 200…315 HD 160…250		1 x MODBUOC31Q4APM 1 x MODBUOC31R4APM	1 x APMBC0CTLN4	1 x APMBC0C50N4	–	1	–	–	1
	ND 300…500 HD 250…400	1 x MODBUOC31T4APM							
ND 355…500 HD 280…400		1 x MODBUOC50Q4APM 1 x MODBUOC50R4APM	1 x APMBC0CTLN4	1 x APMBC0C50N4	–	1	1	–	1
	ND 550…700 HD 450…600	1 x MODBUOC50T4APM							
ND 560…630 HD 450…500		1 x MODBUOC50Q4APM 1 x MODBUOC50R4APM	1 x APMBC0CTLN4	1 x APMBC0C50N4	–	1	–	–	2
	ND 800…900 HD 650…700	1 x MODBUOC50T4APM							
ND 710…800 HD 560…630		1 x MODBUOC50Q4APM 1 x MODBUOC50R4APM	1 x APMBC0CTLN4	1 x APMBC0C50N4	–	1	1	–	2
	ND 1000…1100 HD 800…900	1 x MODBUOC50T4APM							
Pages		71	27	27	23	*(1) (2)*			

(1) These cabinet recommendations are for standard integration. For flexible solutions, please contact your Schneider Electric supplier.
(2) Cabinets must have a minimum depth of 600 mm/23.6 in., and a minimum height of:
- *2,150 mm/84.6 in. (including the roof-top extension) for IP20/21/23/40/41/43 standard cabinet integration*
- *2,350 mm/92.5 in. (including the plinth and roof-top extension) for IP54 standard cabinet integration*

Table showing possible combinations to create architectures

Motor		Braking units	Control units for braking units	Braking unit power modules	Front covers for braking units	Cabinets (drive + braking unit) for IP 20/21/23/40/41/43/54 integration			
ND: Normal duty HD: Heavy duty						400 mm width	600 mm width	800 mm width	1,000 mm width
kW	*HP*								
Standard drives three-phase supply voltage: 500…690 V 50/60 Hz									
ND 75…132 HD 55…110		1 x MODBUOC20N6APM	1 x APMBC0CTLY6	1 x APMBC0C50Y6	–	–	1	–	–
ND 110…200 HD 90…160		1 x MODBUOC20Q6APM							
	ND 175…200 HD 150…175	1 x MODBUOC20T6APM							
ND 160…280 HD 132…220		1 x MODBUOC40N6APM	1 x APMBC0CTLY6	1 x APMBC0C50Y6	–	–	–	1	–
ND 250…400 HD 200…315		1 x MODBUOC40Q6APM							
	ND 250…450 HD 200…350	1 x MODBUOC40T6APM							
ND 355…450 HD 280…355		1 x MODBUOC63N6APM	1 x APMBC0CTLY6	1 x APMBC0C50Y6	–	1	–	1	–
ND 500…630 HD 400…500		1 x MODBUOC63Q6APM							
	ND 550…650 HD 450…550	1 x MODBUOC63T6APM							
ND 560 HD 450		2 x MODBUOC80N6APM	1 x APMBC0CTLY6	2 x APMBC0C50Y6	1 x VW3A97A01	–	–	2	–
ND 800 HD 630		2 x MODBUOC80Q6APM							
	ND 800 HD 650	2 x MODBUOC80T6APM							
ND 710 HD 560		2 x MODBUOM10N6APM	1 x APMBC0CTLY6	2 x APMBC0C50Y6	1 x VW3A97A01	–	2	1	–
ND 1000 HD 800		2 x MODBUOM10Q6APM							
	ND 1000 HD 800	2 x MODBUOM10T6APM							
ND 800 HD 710		2 x MODBUOM12N6APM	1 x APMBC0CTLY6	2 x APMBC0C50Y6	1 x VW3A97A01	–	1	2	–
ND 1200 HD 1000		2 x MODBUOM12Q6APM							
	ND 1200 HD 1000	2 x MODBUOM12T6APM							
Pages		77	27	27	23	*(1) (2)*			

Variable speed drives
Altivar Process Modular
Reduced height architectures without braking unit
400...480 power supply

Variable speed drives
Altivar Process Modular
Reduced height architectures without braking unit
500...690 power supply

Table showing possible combinations to create architectures

Motor		Drive	Control units	Power modules	Mains module	Front covers	Cabinets for IP 20/21/23/ 40/41/43/54 integration	
ND: Normal duty HD: Heavy duty							600 mm width	800 mm width
kW	*HP*							
Standard drives three-phase supply voltage: 400…480 V 50/60 Hz - Reduced Height version								
ND 110…160 HD 90…132		ATV6A0C11Q4...C16Q4	1 x APM6A0CTLN401	1 x APM1A0C16N4RH	1 x APMCA01LCN4RH	–	–	1
		ATV6A0C11R4...C16R4						
		ATV9A0C11Q4...C16Q4	1 x APM9A0CTLN401					
		ATV9A0C11R4...C16R4						
	ND 150…250 *HD 125…200*	ATV6A0C11T4...C16T4	1 x APM6A0CTLN401					
		ATV9A0C11T4...C16T4	1 x APM9A0CTLN401					
ND 200…315 HD 160…250		ATV6A0C20Q4...C31Q4	1 x APM6A0CTLN401	2 x APM1A0C16N4RH	1 x APMCA02LCN4RH	1 x VW3A97A01	2	–
		ATV6A0C20R4...C31R4						
		ATV9A0C20Q4...C31Q4	1 x APM9A0CTLN401					
		ATV9A0C20R4...C31R4						
	ND 300…500 *HD 250…400*	ATV6A0C20T4...C31T4	1 x APM6A0CTLN401					
		ATV9A0C20T4...C31T4	1 x APM9A0CTLN401					
ND 355…500 HD 280…400		ATV6A0C35Q4...C50Q4	1 x APM6A0CTLN401	3 x APM1A0C16N4RH	1 x APMCA03LCN4RH	2 x VW3A97A01	1	1
		ATV6A0C35R4...C50R4						
		ATV9A0C35Q4...C50Q4	1 x APM9A0CTLN401					
		ATV9A0C35R4...C50R4						
	ND 550…700 *HD 450…600*	ATV6A0C35T4...C50T4	1 x APM6A0CTLN401					
		ATV9A0C35T4...C50T4	1 x APM9A0CTLN401					
ND 560…630 HD 450…500		ATV6A0C56Q4...C63Q4	1 x APM6A0CTLN401	4 x APM1A0C16N4RH	2 x APMCA02LCN4RH	3 x VW3A97A01	4	–
		ATV6A0C56R4...C63R4						
		ATV9A0C56Q4...C63Q4	1 x APM9A0CTLN401					
		ATV9A0C56R4...C63R4						
	ND 800…900 *HD 650…700*	ATV6A0C56T4...C63T4	1 x APM6A0CTLN401					
		ATV9A0C56T4...C63T4	1 x APM9A0CTLN401					
ND 710…800 HD 560…630		ATV6A0C71Q4...C80Q4	1 x APM6A0CTLN401	5 x APM1A0C16N4RH	1 x APMCA02LCN4RH + 1 x APMCA03LCN4RH	4 x VW3A97A01	3	1
		ATV6A0C71R4...C80R4						
		ATV9A0C71Q4...C80Q4	1 x APM9A0CTLN401					
		ATV9A0C71R4...C80R4						
	ND 1000…1100 *HD 800…900*	ATV6A0C71T4...C80T4	1 x APM6A0CTLN401					
		ATV9A0C71T4...C80T4	1 x APM9A0CTLN401					
Pages		35	22	20	21	23	*(1) (2)*	

Table showing possible combinations to create architectures

Motor		Drive	Control units	Power modules	Mains module	Front covers	Cabinets for IP 20/21/23/ 40/41/43/54 integration	
ND: Normal duty HD: Heavy duty							600 mm width	800 mm width
kW	*HP*							
Standard drives three-phase supply voltage: 500…690 V 50/60 Hz - Reduced Height version								
ND 75…132 HD 55…110		ATV6A0C11N6...C20N6	1 x APM6A0CTLY6	1 x APM1A0C20Y6RH	1 x APMCA01LCY6RH	–	–	1
		ATV9A0C11N6...C20N6	1 x APM9A0CTLY6					
ND 110…200 HD 90…160		ATV6A0C16Q6...C20Q6	1 x APM6A0CTLY6					
		ATV9A0C16Q6...C20Q6	1 x APM9A0CTLY6					
	ND 175…200	ATV6A0C16T6...C20T6	1 x APM6A0CTLY6					
	HD 150…175	ATV9A0C16T6...C20T6	1 x APM9A0CTLY6					
ND 160…280 HD 132…220		ATV6A0C25N6...C40N6	1 x APM6A0CTLY6	2 x APM1A0C16Y6RH	1 x APMCA02LCY6RH	1 x VW3A97A01	2	–
		ATV9A0C25N6...C40N6	1 x APM9A0CTLY6					
ND 250…400 HD 200…315		ATV6A0C25Q6...C40Q6	1 x APM6A0CTLY6					
		ATV9A0C25Q6...C40Q6	1 x APM9A0CTLY6					
	ND 250…450 *HD 200…350*	ATV6A0C25T6...C40T6	1 x APM6A0CTLY6					
		ATV9A0C25T6...C40T6	1 x APM9A0CTLY6					
ND 355…450 HD 280…355		ATV6A0C50N6...C63N6	1 x APM6A0CTLY6	3 x APM1A0C16Y6RH	1 x APMCA03LCY6RH	2 x VW3A97A01	1	1
		ATV9A0C50N6...C63N6	1 x APM9A0CTLY6					
ND 500…630 HD 400…500		ATV6A0C50Q6...C63Q6	1 x APM6A0CTLY6					
		ATV9A0C50Q6...C63Q6	1 x APM9A0CTLY6					
	ND 550…650 *HD 450…550*	ATV6A0C50T6...C63T6	1 x APM6A0CTLY6					
		ATV9A0C50T6...N63T6	1 x APM9A0CTLY6					
ND 560 HD 450		ATV6A0C80N6	1 x APM6A0CTLY6	4 x APM1A0C16Y6RH	2 x APMCA02LCY6RH	3 x VW3A97A01	4	–
		ATV9A0C80N6	1 x APM9A0CTLY6					
ND 800 HD 630		ATV6A0C80Q6	1 x APM6A0CTLY6					
		ATV9A0C80Q6	1 x APM9A0CTLY6					
	ND 800 *HD 650*	ATV6A0C80T6	1 x APM6A0CTLY6					
		ATV9A0C80T6	1 x APM9A0CTLY6					
ND 710 HD 560		ATV6A0M10N6	1 x APM6A0CTLY6	5 x APM1A0C16Y6RH	1 x APMCA02LCY6RH + 1 x APMCA03LCY6RH	4 x VW3A97A01	3	1
		ATV9A0M10N6	1 x APM9A0CTLY6					
ND 1000 HD 800		ATV6A0M10Q6	1 x APM6A0CTLY6					
		ATV9A0M10Q6	1 x APM9A0CTLY6					
	ND 1000 *HD 800*	ATV6A0M10T6	1 x APM6A0CTLY6					
		ATV9A0M10T6	1 x APM9A0CTLY6					
ND 800 HD 710		ATV6A0M12N6	1 x APM6A0CTLY6	6 x APM1A0C16Y6RH	2 x APMCA03LCY6RH	5 x VW3A97A01	2	2
		ATV9A0M12N6	1 x APM9A0CTLY6					
ND 1200 HD 1000		ATV6A0M12Q6	1 x APM6A0CTLY6					
		ATV9A0M12Q6	1 x APM9A0CTLY6					
	ND 1200 *HD 1000*	ATV6A0M12T6	1 x APM6A0CTLY6					
		ATV9A0M12T6	1 x APM9A0CTLY6					
Pages		41	22	20	21	23	*(1) (2)*	

(1) These cabinet recommendations are for standard integration. For flexible solutions, please contact your Schneider Electric supplier.
(2) Cabinets must have a minimum depth of 600 mm/23.6 in., and a minimum height of:
- *2,150 mm/84.6 in. (including the roof-top extension) for IP20/21/23/40/41/43 standard cabinet integration*
- *2,350 mm/92.5 in. (including the plinth and roof-top extension) for IP54 standard cabinet integration*

Variable speed drives
Altivar Process Modular
Reduced height architectures with braking unit
400...480 V power supply

Table showing possible combinations to create architectures

Motor		Braking units	Control units for braking units	Braking unit power modules	Front covers for braking units	Cabinets (drive + braking unit) for IP 20/21/23/40/41/43/54 integration	
ND: Normal duty						600 mm width	800 mm width
HD: Heavy duty							
kW	*HP*						
Standard drives three-phase supply voltage: 400…480 V 50/60 Hz - reduced height version							
ND 110…160 HD 90…132		1 x MODBUOC16Q4APM	1 x APMBC0CTLN4	1 x APMBC0C50N4	–	2	–
		1 x MODBUOC16R4APM					
	ND 150…250 *HD 125…200*	1 x MODBUOC16T4APM					
ND 200…315 HD 160…250		1 x MODBUOC31Q4APM	1 x APMBC0CTLN4	1 x APMBC0C50N4	–	1	1
		1 x MODBUOC31R4APM					
	ND 300…500 *HD 250…400*	1 x MODBUOC31T4APM					
ND 355…500 HD 280…400		1 x MODBUOC50Q4APM	1 x APMBC0CTLN4	1 x APMBC0C50N4	–	3	–
		1 x MODBUOC50R4APM					
	ND 550…700 *HD 450…600*	1 x MODBUOC50T4APM					
ND 560…630 HD 450…500		2 x MODBUOC63Q4APM	1 x APMBC0CTLN4	2 x APMBC0C50N4	1 x VW3A97A01	5	–
		2 x MODBUOC63R4APM					
	ND 800…900 *HD 650…700*	2 x MODBUOC63T4APM					
ND 710…800 HD 560…630		2 x MODBUOC80Q4APM	1 x APMBC0CTLN4	2 x APMBC0C50N4	1 x VW3A97A01	4	1
		2 x MODBUOC80R4APM					
	ND 1000…1100 *HD 800…900*	2 x MODBUOC80T4APM					
Pages		71	27	27	23	*(1) (2)*	

(1) These cabinet recommendations are for standard integration. For flexible solutions, please contact your Schneider Electric supplier.
(2) Cabinets must have a minimum depth of 600 mm/23.6 in., and a minimum height of:
- *2,150 mm/84.6 in. (including the roof-top extension) for IP20/21/23/40/41/43 standard cabinet integration*
- *2,350 mm/92.5 in. (including the plinth and roof-top extension) for IP54 standard cabinet integration*

Variable speed drives
Altivar Process Modular
Reduced height architectures with braking unit
500...690 V power supply

Table showing possible combinations to create architectures

Motor		Braking units	Control units for braking units	Braking unit power modules	Front covers for braking units	Cabinets (drive + braking unit) for IP 20/21/23/40/41/43/54 integration	
ND: Normal duty						600 mm width	800 mm width
HD: Heavy duty							
kW	*HP*						
Standard drives three-phase supply voltage: 500…690 V 50/60 Hz - reduced height version							
ND 75…132 HD 55…110		1 x MODBUOC20N6APM	1 x APMBC0CTLY6	1 x APMBC0C50Y6	–	2	–
ND 110…200 HD 90…160		1 x MODBUOC20Q6APM					
	ND 175…200 *HD 150…175*	1 x MODBUOC20T6APM					
ND 160…280 HD 132…220		1 x MODBUOC40N6APM	1 x APMBC0CTLY6	1 x APMBC0C50Y6	–	1	1
ND 250…400 HD 200…315		1 x MODBUOC40Q6APM					
	ND 250…450 *HD 200…350*	1 x MODBUOC40T6APM					
ND 355…450 HD 280…355		1 x MODBUOC63N6APM	1 x APMBC0CTLY6	1 x APMBC0C50Y6	–	3	–
ND 500…630 HD 400…500		1 x MODBUOC63Q6APM					
	ND 550…650 *HD 450…550*	1 x MODBUOC63T6APM					
ND 560 HD 450		2 x MODBUOC80N6APM	1 x APMBC0CTLY6	2 x APMBC0C50Y6	1 x VW3A97A01	5	–
ND 800 HD 630		2 x MODBUOC80Q6APM					
	ND 800 *HD 650*	2 x MODBUOC80T6APM					
ND 710 HD 560		2 x MODBUOM10N6APM	1 x APMBC0CTLY6	2 x APMBC0C50Y6	1 x VW3A97A01	4	1
ND 1000 HD 800		2 x MODBUOM10Q6APM					
	ND 1000 *HD 800*	2 x MODBUOM10T6APM					
ND 800 HD 710		2 x MODBUOM12N6APM	1 x APMBC0CTLY6	2 x APMBC0C50Y6	1 x VW3A97A01	3	2
ND 1200 HD 1000		2 x MODBUOM12Q6APM					
	ND 1200 *HD 1000*	2 x MODBUOM12T6APM					
Pages		77	27	27	23	*(1) (2)*	

Variable speed drives
Altivar Process Modular
Standard liquid-cooled architectures without braking unit
Universal version 380...480 V power supply

Table showing possible combinations to create architectures

Motor		Drive	Control units	Power modules	Line choke module	Motor protection module	Cabinet cooling module *(3)*	Cabinets for IP 20/21/23/40/41/43/ 54/55/66 integration
ND: Normal duty								600 mm width
HD: Heavy duty								
kW	*HP*							
Standard liquid-cooled drives three-phase supply voltage: 380…480 V 50/60 Hz - Universal version								
ND 132...200 HD 110...160		ATV6L0C13Q4...C20Q4	1 x APM6L0CTLN4	1 x APM1L0C20N4	1 x APM1L0LCMN4	1 x APM1L0MPMN4	1 x APM1L0CCM230	1
		ATV9L0C13Q4...C20Q4	1 x APM9L0CTLN4					
ND 250...315 HD 200...250		ATV6L0C25Q4...C31Q4	1 x APM6L0CTLN4	1 x APM1L0C31N4				
		ATV9L0C25Q4...C31Q4	1 x APM9L0CTLN4					
ND 132...200 HD 110...160		ATV6L0C13R4...C20R4	1 x APM6L0CTLN4	1 x APM1L0C20N4				
		ATV9L0C13R4...C20R4	1 x APM9L0CTLN4					
ND 250...315 HD 200...250		ATV6L0C25R4...C31R4	1 x APM6L0CTLN4	1 x APM1L0C31N4				
		ATV9L0C25R4...C31R4	1 x APM9L0CTLN4					
	ND 200...300 HD 150...250	ATV6L0C13T4...C20T4	1 x APM6L0CTLN4	1 x APM1L0C20N4			1 x APM1L0CCM115	
		ATV9L0C13T4...C20T4	1 x APM9L0CTLN4					
	ND 400...500 HD 300...400	ATV6L0C25T4...C31T4	1 x APM6L0CTLN4	1 x APM1L0C31N4				
		ATV9L0C25T4...C31T4	1 x APM9L0CTLN4					
ND 400 HD 315		ATV6L0C40Q4	1 x APM6L0CTLN4	2 x APM1L0C20N4	2 x APM1L0LCMN4	2 x APM1L0MPMN4	2 x APM1L0CCM230	2
		ATV9L0C40Q4	1 x APM9L0CTLN4					
ND 500...630 HD 400...500		ATV6L0C50Q4...C63Q4	1 x APM6L0CTLN4	2 x APM1L0C31N4				
		ATV9L0C50Q4...C63Q4	1 x APM9L0CTLN4					
ND 400 HD 315		ATV6L0C40R4	1 x APM6L0CTLN4	2 x APM1L0C20N4				
		ATV9L0C40R4	1 x APM9L0CTLN4					
ND 500...630 HD 400...500		ATV6L0C50R4...C63R4	1 x APM6L0CTLN4	2 x APM1L0C31N4				
		ATV9L0C50R4...C63R4	1 x APM9L0CTLN4					
	ND 600 HD 500	ATV6L0C40T4	1 x APM6L0CTLN4	2 x APM1L0C20N4			2 x APM1L0CCM115	
		ATV9L0C40T4	1 x APM9L0CTLN4					
	ND 700...900 HD 600...700	ATV6L0C50T4...C63T4	1 x APM6L0CTLN4	2 x APM1L0C31N4				
		ATV9L0C50T4...C63T4	1 x APM9L0CTLN4					
ND 800...900 HD 710...710		ATV6L0C80Q4...C90Q4	1 x APM6L0CTLN4	3 x APM1L0C31N4	3 x APM1L0LCMN4	3 x APM1L0MPMN4	3 x APM1L0CCM230	3
		ATV9L0C80Q4...C90Q4	1 x APM9L0CTLN4					
ND 800...900 HD 710...710		ATV6L0C80R4...C90R4	1 x APM6L0CTLN4					
		ATV9L0C80R4...C90R4	1 x APM9L0CTLN4					
	ND 1100...1300 HD 900...1000	ATV6L0C80T4...C90T4	1 x APM6L0CTLN4				3 x APM1L0CCM115	
		ATV9L0C80T4...C90T4	1 x APM9L0CTLN4					
ND 1000...1200 HD 800...1000		ATV6L0M10Q4...M12Q4	1 x APM6L0CTLN4	4 x APM1L0C31N4	4 x APM1L0LCMN4	4 x APM1L0MPMN4	4 x APM1L0CCM230	4
		ATV9L0M10Q4...M12Q4	1 x APM9L0CTLN4					
ND 1000...1200 HD 800...1000		ATV6L0M10R4...M12R4	1 x APM6L0CTLN4					
		ATV9L0M10R4...M12R4	1 x APM9L0CTLN4					
	ND 1400...1700 HD 1100...1400	ATV6L0M10T4...M12T4	1 x APM6L0CTLN4				4 x APM1L0CCM115	
		ATV9L0M10T4...M12T4	1 x APM9L0CTLN4					
ND 1500 HD 1200		ATV6L0M15Q4	1 x APM6L0CTLN4	5 x APM1L0C31N4	5 x APM1L0LCMN4	5 x APM1L0MPMN4	5 x APM1L0CCM230	5
		ATV9L0M15Q4	1 x APM9L0CTLN4					
ND 1500 HD 1200		ATV6L0M15R4	1 x APM6L0CTLN4					
		ATV9L0M15R4	1 x APM9L0CTLN4					
	ND 2200 HD 1700	ATV6L0M15T4	1 x APM6L0CTLN4				5 x APM1L0CCM115	
		ATV9L0M15T4	1 x APM9L0CTLN4					
ND 1800 HD 1400		ATV6L0M18Q4	1 x APM6L0CTLN4	6 x APM1L0C31N4	6 x APM1L0LCMN4	6 x APM1L0MPMN4	6 x APM1L0CCM230	6
		ATV9L0M18Q4	1 x APM9L0CTLN4					
ND 1800 HD 1400		ATV6L0M18R4	1 x APM6L0CTLN4					
		ATV9L0M18R4	1 x APM9L0CTLN4					
	ND 2500 HD 2000	ATV6L0M18T4	1 x APM6L0CTLN4				6 x APM1L0CCM115	
		ATV9L0M18T4	1 x APM9L0CTLN4					
Pages		59	22	20	27	27	27	*(1) (2)*

(1) These cabinet recommendations are for standard integration. For flexible solutions, please contact your Schneider Electric supplier.
(2) Cabinets must have a minimum depth of 600 mm/23.6 in., and a minimum height of:
- *2,150 mm/84.6 in. (including the roof-top extension) for IP20/21/23/40/41/43 standard cabinet integration*
- *2,350 mm/92.5 in. (including the plinth and roof-top extension) for IP54 standard cabinet integration*

(3) Depending on the available control voltage, a module with 115 VAC or 230 VAC can be used.

Variable speed drives
Altivar Process Modular
Standard liquid-cooled architectures without braking unit
Universal version 500...690 V power supply

Table showing possible combinations to create architectures

Motor		Drive	Control units	Power modules	Line choke module	Motor protection module	Cabinet cooling module *(3)*	Cabinets for IP 20/21/23/40/41/43/ 54/55/66 integration
ND: Normal duty								600 mm width
HD: Heavy duty								
kW	*HP*							
Standard liquid-cooled drives three-phase supply voltage: 500…690 V 50/60 Hz - Universal version								
ND 132...200 HD 110...160		ATV6L0C20N6...C28N6	1 x APM6L0CTLY6	1 x APM1L0C28Y6	1 x APM1L0LCMY6	1 x APM1L0MPMY6	1 x APM1L0CCM230	1
		ATV9L0C20N6...C28N6	1 x APM9L0CTLY6					
ND 220...315 HD 180...250		ATV6L0C31N6...C45N6	1 x APM6L0CTLY6	1 x APM1L0C45Y6				
		ATV9L0C31N6...C45N6	1 x APM9L0CTLY6					
ND 200...280 HD 160...220		ATV6L0C20Q6...C28Q6	1 x APM6L0CTLY6	1 x APM1L0C28Y6				
		ATV9L0C20Q6...C28Q6	1 x APM9L0CTLY6					
ND 315...450 HD 250...355		ATV6L0C31Q6...C45Q6	1 x APM6L0CTLY6	1 x APM1L0C45Y6				
		ATV9L0C31Q6...C45Q6	1 x APM9L0CTLY6					
	ND 200...300 HD 150...200	ATV6L0C20T6...C28T6	1 x APM6L0CTLY6	1 x APM1L0C28Y6			1 x APM1L0CCM115	
		ATV9L0C20T6...C28T6	1 x APM9L0CTLY6					
	ND 350...500 HD 250...400	ATV6L0C31T6...C45T6	1 x APM6L0CTLY6	1 x APM1L0C45Y6				
		ATV9L0C31T6...C45T6	1 x APM9L0CTLY6					
ND 400 HD 315		ATV6L0C56N6	1 x APM6L0CTLY6	2 x APM1L0C28Y6	2 x APM1L0LCMY6	2 x APM1L0MPMY6	2 x APM1L0CCM230	2
		ATV9L0C56N6	1 x APM9L0CTLY6					
ND 500...630 HD 400...500		ATV6L0C71N6...C90N6	1 x APM6L0CTLY6	2 x APM1L0C45Y6				
		ATV9L0C71N6...C90N6	1 x APM9L0CTLY6					
ND 560 HD 450		ATV6L0C56Q6	1 x APM6L0CTLY6	2 x APM1L0C28Y6				
		ATV9L0C56Q6	1 x APM9L0CTLY6					
ND 710...900 HD 560...710		ATV6L0C71Q6...C90Q6	1 x APM6L0CTLY6	2 x APM1L0C45Y6				
		ATV9L0C71Q6...C90Q6	1 x APM9L0CTLY6					
	ND 600 HD 500	ATV6L0C56T6	1 x APM6L0CTLY6	2 x APM1L0C28Y6			2 x APM1L0CCM115	
		ATV9L0C56T6	1 x APM9L0CTLY6					
	ND 700...900 HD 600...700	ATV6L0C71T6...C90T6	1 x APM6L0CTLY6	2 x APM1L0C45Y6				
		ATV9L0C71T6...C90T6	1 x APM9L0CTLY6					
ND 800...1000 HD 710...800		ATV6L0M12N6...M14N6	1 x APM6L0CTLY6	3 x APM1L0C45Y6	3 x APM1L0LCMY6	3 x APM1L0MPMY6	3 x APM1L0CCM230	3
		ATV9L0M12N6...M14N6	1 x APM9L0CTLY6					
ND 1200...1400 HD 1000...1100		ATV6L0M12Q6...M14Q6	1 x APM6L0CTLY6					
		ATV9L0M12Q6...M14Q6	1 x APM9L0CTLY6					
	ND 1200...1400 HD 1000...1100	ATV6L0M12T6...M14T6	1 x APM6L0CTLY6				3 x APM1L0CCM115	
		ATV9L0M12T6...M14T6	1 x APM9L0CTLY6					
ND 1200...1300 HD 900...1000		ATV6L0M16N6...M18N6	1 x APM6L0CTLY6	4 x APM1L0C45Y6	4 x APM1L0LCMY6	4 x APM1L0MPMY6	4 x APM1L0CCM230	4
		ATV9L0M16N6...M18N6	1 x APM9L0CTLY6					
ND 1600...1800 HD 1300...1400		ATV6L0M16Q6...M18Q6	1 x APM6L0CTLY6					
		ATV9L0M16Q6...M18Q6	1 x APM9L0CTLY6					
	ND 1600...1800 HD 1300...1400	ATV6L0M16T6...M18T6	1 x APM6L0CTLY6				4 x APM1L0CCM115	
		ATV9L0M16T6...M18T6	1 x APM9L0CTLY6					
ND 1600 HD 1200		ATV6L0M22N6	1 x APM6L0CTLY6	5 x APM1L0C45Y6	5 x APM1L0LCMY6	5 x APM1L0MPMY6	5 x APM1L0CCM230	5
		ATV9L0M22N6	1 x APM9L0CTLY6					
ND 2200 HD 1700		ATV6L0M22Q6	1 x APM6L0CTLY6					
		ATV9L0M22Q6	1 x APM9L0CTLY6					
	ND 2200 HD 1700	ATV6L0M22T6	1 x APM6L0CTLY6				5 x APM1L0CCM115	
		ATV9L0M22T6	1 x APM9L0CTLY6					
ND 1900 HD 1500		ATV6L0M26N6	1 x APM6L0CTLY6	6 x APM1L0C45Y6	6 x APM1L0LCMY6	6 x APM1L0MPMY6	6 x APM1L0CCM230	6
		ATV9L0M26N6	1 x APM9L0CTLY6					
ND 2600 HD 2100		ATV6L0M26Q6	1 x APM6L0CTLY6					
		ATV9L0M26Q6	1 x APM9L0CTLY6					
	ND 2600 HD 2100	ATV6L0M26T6	1 x APM6L0CTLY6				6 x APM1L0CCM115	
		ATV9L0M26T6	1 x APM9L0CTLY6					
Pages		65	22	20	27	27	27	*(1) (2)*

Variable speed drives
Altivar Process Modular
Standard liquid-cooled architectures without braking unit
Compact version 380...480 V power supply

Table showing possible combinations to create architectures

Motor		Drive	Control units	Power modules	Line filter module	Line paralleling module	Motor protection module	Cabinets for IP 20/21/23/40/41/43/54/55/66 integration		
ND: Normal duty								400 mm width	600 mm width	800 mm width
HD: Heavy duty										
kW	*HP*									
Standard liquid-cooled drives three-phase supply voltage: 380…480 V 50/60 Hz - Compact version										
ND 132...200 HD 110...160		ATV6L0C13Q4...C20Q4	1 x APM6L0CTLN4	1 x APM1L0C20N4	1 x APM1L0LFMN4	1 x APM1L0LPMN4	1 x APM1L0MPMN4	1	–	–
		ATV9L0C13Q4...C20Q4	1 x APM9L0CTLN4							
ND 250...315 HD 200...250		ATV6L0C25Q4...C31Q4	1 x APM6L0CTLN4	1 x APM1L0C31N4						
		ATV9L0C25Q4...C31Q4	1 x APM9L0CTLN4							
ND 132...200 HD 110...160		ATV6L0C13R4...C20R4	1 x APM6L0CTLN4	1 x APM1L0C20N4						
		ATV9L0C13R4...C20R4	1 x APM9L0CTLN4							
ND 250...315 HD 200...250		ATV6L0C25R4...C31R4	1 x APM6L0CTLN4	1 x APM1L0C31N4						
		ATV9L0C25R4...C31R4	1 x APM9L0CTLN4							
	ND 200...300 HD 150...250	ATV6L0C13T4...C20T4	1 x APM6L0CTLN4	1 x APM1L0C20N4						
		ATV9L0C13T4...C20T4	1 x APM9L0CTLN4							
	ND 400...500 HD 300...400	ATV6L0C25T4...C31T4	1 x APM6L0CTLN4	1 x APM1L0C31N4						
		ATV9L0C25T4...C31T4	1 x APM9L0CTLN4							
ND 400 HD 315		ATV6L0C40Q4	1 x APM6L0CTLN4	2 x APM1L0C20N4	1 x APM1L0LFMN4	2 x APM1L0LPMN4	2 x APM1L0MPMN4	–	1	–
		ATV9L0C40Q4	1 x APM9L0CTLN4							
ND 500...630 HD 400...500		ATV6L0C50Q4...C63Q4	1 x APM6L0CTLN4	2 x APM1L0C31N4						
		ATV9L0C50Q4...C63Q4	1 x APM9L0CTLN4							
ND 400 HD 315		ATV6L0C40R4	1 x APM6L0CTLN4	2 x APM1L0C20N4						
		ATV9L0C40R4	1 x APM9L0CTLN4							
ND 500...630		ATV6L0C50R4...C63R4	1 x APM6L0CTLN4	2 x APM1L0C31N4						
HD 400...500		ATV9L0C50R4...C63R4	1 x APM9L0CTLN4							
	ND 600 HD 500	ATV6L0C40T4	1 x APM6L0CTLN4	2 x APM1L0C20N4						
		ATV9L0C40T4	1 x APM9L0CTLN4							
	ND 700...900 HD 600...700	ATV6L0C50T4...C63T4	1 x APM6L0CTLN4	2 x APM1L0C31N4						
		ATV9L0C50T4...C63T4	1 x APM9L0CTLN4							
ND 800...900 HD 710...710		ATV6L0C80Q4...C90Q4	1 x APM6L0CTLN4	3 x APM1L0C31N4	1 x APM1L0LFMN4	3 x APM1L0LPMN4	3 x APM1L0MPMN4	–	–	1
		ATV9L0C80Q4...C90Q4	1 x APM9L0CTLN4							
ND 800...900 HD 710...710		ATV6L0C80R4...C90R4	1 x APM6L0CTLN4							
		ATV9L0C80R4...C90R4	1 x APM9L0CTLN4							
	ND 1100...1300 HD 900...1000	ATV6L0C80T4...C90T4	1 x APM6L0CTLN4							
		ATV9L0C80T4...C90T4	1 x APM9L0CTLN4							
ND 1000...1200 HD 800...1000		ATV6L0M10Q4...M12Q4	1 x APM6L0CTLN4	4 x APM1L0C31N4	2 x APM1L0LFMN4	4 x APM1L0LPMN4	4 x APM1L0MPMN4	–	2	–
		ATV9L0M10Q4...M12Q4	1 x APM9L0CTLN4							
ND 1000...1200 HD 800...1000		ATV6L0M10R4...M12R4	1 x APM6L0CTLN4							
		ATV9L0M10R4...M12R4	1 x APM9L0CTLN4							
	ND 1400...1700 HD 1100...1400	ATV6L0M10T4...M12T4	1 x APM6L0CTLN4							
		ATV9L0M10T4...M12T4	1 x APM9L0CTLN4							
ND 1500 HD 1200		ATV6L0M15Q4	1 x APM6L0CTLN4	5 x APM1L0C31N4	2 x APM1L0LFMN4	5 x APM1L0LPMN4	5 x APM1L0MPMN4	–	1	1
		ATV9L0M15Q4	1 x APM9L0CTLN4							
ND 1500 HD 1200		ATV6L0M15R4	1 x APM6L0CTLN4							
		ATV9L0M15R4	1 x APM9L0CTLN4							
	ND 2200 HD 1700	ATV6L0M15T4	1 x APM6L0CTLN4							
		ATV9L0M15T4	1 x APM9L0CTLN4							
ND 1800 HD 1400		ATV6L0M18Q4	1 x APM6L0CTLN4	6 x APM1L0C31N4	2 x APM1L0LFMN4	6 x APM1L0LPMN4	6 x APM1L0MPMN4	–	–	2
		ATV9L0M18Q4	1 x APM9L0CTLN4							
ND 1800 HD 1400		ATV6L0M18R4	1 x APM6L0CTLN4							
		ATV9L0M18R4	1 x APM9L0CTLN4							
	ND 2500 HD 2000	ATV6L0M18T4	1 x APM6L0CTLN4							
		ATV9L0M18T4	1 x APM9L0CTLN4							
Pages		59	22	20	27	27	27	(1) (2)		

(1) These cabinet recommendations are for standard integration. For flexible solutions, please contact your Schneider Electric supplier.
(2) Cabinets must have a minimum depth of 600 mm/23.6 in., and a minimum height of:
- *2,150 mm/84.6 in. (including the roof-top extension) for IP20/21/23/40/41/43 standard cabinet integration*
- *2,350 mm/92.5 in. (including the plinth and roof-top extension) for IP54 standard cabinet integration*

Variable speed drives
Altivar Process Modular
Standard liquid-cooled architectures without braking unit
Compact version 500...690 V power supply

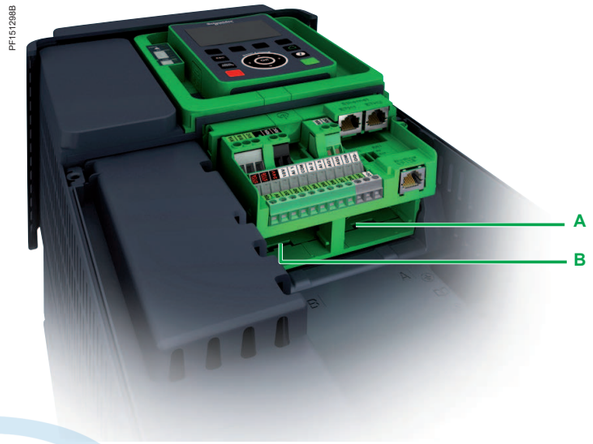
Table showing possible combinations to create architectures

Motor		Drive	Control units	Power modules	Line filter module	Line paralleling module	Motor protection module	Cabinets for IP 20/21/23/40/41/43/54/55/66 integration		
ND: Normal duty								400 mm width	600 mm width	800 mm width
HD: Heavy duty										
kW	*HP*									
Standard liquid-cooled drives three-phase supply voltage: 500…690 V 50/60 Hz - Compact version										
ND 132...200 HD 110...160		ATV6L0C20N6...C28N6	1 x APM6L0CTLY6	1 x APM1L0C28Y6	1 x APM1L0LFMY6	1 x APM1L0LPMY6	1 x APM1L0MPMY6	1	–	–
		ATV9L0C20N6...C28N6	1 x APM9L0CTLY6							
ND 220...315 HD 180...250		ATV6L0C31N6...C45N6	1 x APM6L0CTLY6	1 x APM1L0C45Y6						
		ATV9L0C31N6...C45N6	1 x APM9L0CTLY6							
ND 200...280 HD 160...220		ATV6L0C20Q6...C28Q6	1 x APM6L0CTLY6	1 x APM1L0C28Y6						
		ATV9L0C20Q6...C28Q6	1 x APM9L0CTLY6							
ND 315...450 HD 250...355		ATV6L0C31Q6...C45Q6	1 x APM6L0CTLY6	1 x APM1L0C45Y6						
		ATV9L0C31Q6...C45Q6	1 x APM9L0CTLY6							
	ND 200...300 HD 150...200	ATV6L0C20T6...C28T6	1 x APM6L0CTLY6	1 x APM1L0C28Y6						
		ATV9L0C20T6...C28T6	1 x APM9L0CTLY6							
	ND 350...500 HD 250...400	ATV6L0C31T6...C45T6	1 x APM6L0CTLY6	1 x APM1L0C45Y6						
		ATV9L0C31T6...C45T6	1 x APM9L0CTLY6							
ND 400 HD 315		ATV6L0C56N6	1 x APM6L0CTLY6	2 x APM1L0C28Y6	1 x APM1L0LFMY6	2 x APM1L0LPMY6	2 x APM1L0MPMY6	–	1	–
		ATV9L0C56N6	1 x APM9L0CTLY6							
ND 500...630 HD 400...500		ATV6L0C71N6...C90N6	1 x APM6L0CTLY6	2 x APM1L0C45Y6						
		ATV9L0C71N6...C90N6	1 x APM9L0CTLY6							
ND 560 HD 450		ATV6L0C56Q6	1 x APM6L0CTLY6	2 x APM1L0C28Y6						
		ATV9L0C56Q6	1 x APM9L0CTLY6							
ND 710...900		ATV6L0C71Q6...C90Q6	1 x APM6L0CTLY6	2 x APM1L0C45Y6						
HD 560...710		ATV9L0C71Q6...C90Q6	1 x APM9L0CTLY6							
	ND 600 HD 500	ATV6L0C56T6	1 x APM6L0CTLY6	2 x APM1L0C28Y6						
		ATV9L0C56T6	1 x APM9L0CTLY6							
	ND 700...900 HD 600...700	ATV6L0C71T6...C90T6	1 x APM6L0CTLY6	2 x APM1L0C45Y6						
		ATV9L0C71T6...C90T6	1 x APM9L0CTLY6							
ND 800...1000 HD 710...800		ATV6L0M12N6...M14N6	1 x APM6L0CTLY6	3 x APM1L0C45Y6	1 x APM1L0LFMY6	3 x APM1L0LPMY6	3 x APM1L0MPMY6	–	–	1
		ATV9L0M12N6...M14N6	1 x APM9L0CTLY6							
ND 1200...1400 HD 1000...1100		ATV6L0M12Q6...M14Q6	1 x APM6L0CTLY6							
		ATV9L0M12Q6...M14Q6	1 x APM9L0CTLY6							
	ND 1200...1400 HD 1000...1100	ATV6L0M12T6...M14T6	1 x APM6L0CTLY6							
		ATV9L0M12T6...M14T6	1 x APM9L0CTLY6							
ND 1200...1300 HD 900...1000		ATV6L0M16N6...M18N6	1 x APM6L0CTLY6	4 x APM1L0C45Y6	2 x APM1L0LFMY6	4 x APM1L0LPMY6	4 x APM1L0MPMY6	–	2	–
		ATV9L0M16N6...M18N6	1 x APM9L0CTLY6							
ND 1600...1800 HD 1300...1400		ATV6L0M16Q6...M18Q6	1 x APM6L0CTLY6							
		ATV9L0M16Q6...M18Q6	1 x APM9L0CTLY6							
	ND 1600...1800 HD 1300...1400	ATV6L0M16T6...M18T6	1 x APM6L0CTLY6							
		ATV9L0M16T6...M18T6	1 x APM9L0CTLY6							
ND 1600 HD 1200		ATV6L0M22N6	1 x APM6L0CTLY6	5 x APM1L0C45Y6	2 x APM1L0LFMY6	5 x APM1L0LPMY6	5 x APM1L0MPMY6	–	1	1
		ATV9L0M22N6	1 x APM9L0CTLY6							
ND 2200 HD 1700		ATV6L0M22Q6	1 x APM6L0CTLY6							
		ATV9L0M22Q6	1 x APM9L0CTLY6							
	ND 2200 HD 1700	ATV6L0M22T6	1 x APM6L0CTLY6							
		ATV9L0M22T6	1 x APM9L0CTLY6							
ND 1900 HD 1500		ATV6L0M26N6	1 x APM6L0CTLY6	6 x APM1L0C45Y6	2 x APM1L0LFMY6	6 x APM1L0LPMY6	6 x APM1L0MPMY6	–	–	2
		ATV9L0M26N6	1 x APM9L0CTLY6							
ND 2600 HD 2100		ATV6L0M26Q6	1 x APM6L0CTLY6							
		ATV9L0M26Q6	1 x APM9L0CTLY6							
	ND 2600 HD 2100	ATV6L0M26T6	1 x APM6L0CTLY6							
		ATV9L0M26T6	1 x APM9L0CTLY6							
Pages		65	22	20	27	27	27	(1) (2)		

Variable speed drives
Altivar Process Modular
Compatibility table

Module compatibility table			
Safety module			
Description	**Reference**	**Compatibility**	**Slot**
Safety module	VW3A3802	ATV900	C *(2)*
Encoder interface modules			
Description	**Reference**	**Compatibility**	**Slot**
Digital encoder interface module	VW3A3420	ATV900	B
Analog encoder interface module	VW3A3422	ATV900	B
Resolver interface module	VW3A3423	ATV900	B
HTL encoder interface module	VW3A3424	ATV900	B
Additional I/O modules			
Description	**Reference**	**Compatibility**	**Slot**
Extended I/O module *(1)*	VW3A3203	ATV600 and ATV900	A or B or C *(2)*
Extended relay module *(1)*	VW3A3204	ATV600 and ATV900	A or B or C *(2)*
Fieldbus modules			
Description	**Reference**	**Compatibility**	**Slot**
EtherNet/IP and Modbus TCP dual port	VW3A3720	ATV600	A
EtherNet/IP, Modbus TCP, and MD-Link dual port	VW3A3721	ATV600	A
CANopen daisy chain	VW3A3608	ATV600 and ATV900	A
CANopen SUB-D	VW3A3618	ATV600 and ATV900	A
CANopen screw terminal block	VW3A3628	ATV600 and ATV900	A
PROFINET	VW3A3627	ATV600 and ATV900	A
PROFIBUS DP V1	VW3A3607	ATV600 and ATV900	A
POWERLINK Network	VW3A3619	ATV600 and ATV900	A
BACnet MS/TP	VW3A3725	ATV600	A
EtherCAT	VW3A3601	ATV900	A
DeviceNet	VW3A3609	ATV600 and ATV900	A

(1) These references can only be used once per drive, e.g. VW3A3203 in slot A and VW3A3204 in slot B.
(2) The Altivar 900 drive must be equipped with an additional module support VW3A3800 to be able to insert the safety module VW3A3802.



Altivar Process drives slots

For more information on compatible options and accessories, please contact your Schneider Electric supplier or consult the product selector available on our partner portal.

For more details on I/O, encoder, and communication modules, please refer to the Altivar Process ATV600 and ATV900 catalogs:

Altivar Process catalogs
Click to open the documents

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Variable speed drives
Altivar Process Modular
Motor starters
IEC 400 V Standard drives

Applications

Circuit breaker/contactor/drive combinations help to ensure continuity of service in the installation.
The type of circuit breaker/contactor coordination selected can reduce maintenance costs in the event of a motor short-circuit on the drive input by minimizing the time required to make the necessary repairs and the cost of replacement equipment. The suggested combinations provide coordination according to the drive rating.
The selection according to IEC considers components loaded to a maximum of 80% up to 1600 A nominal current to avoid the temperature rise test requirement according to IEC 61439-1.
The selection according to UL considers the requirement for disconnect switches not carrying full load currents more than 80% of their nominal current.

The drive controls the motor, provides a monitoring function against short-circuits between the drive and the motor, and helps protect the motor cable against overloads. Overload monitoring is provided by the drive's motor thermal monitoring function if this has been enabled. Otherwise, an external monitoring device such as a probe or thermal overload relay must be provided.

Selecting short-circuit protection devices (fuses or circuit breakers) is key to helping to protect the overall installation against potential damage caused by short-circuits. It is recommended that you refer to the APM Integration Manuals.

NS1250N Micrologic 5.0

+

LC1F1400●●

+

ATV6A0C71Q4

IEC standard motor starters

Nominal power ND: Normal duty *HD: Heavy duty*			Drive	Circuit breaker			Line contactor	
			Reference *(1)*	Type *(2)*	Rating at 50 °C	Ii	Reference *(3)*	Rating at 60 °C
	kW	*HP*			A	A	A	A
Three-phase supply voltage: 400 V 50/60 Hz								
ND	110	–	ATV●A0C11Q4	NSX250N Micrologic 2.2 250	250	3000 (4)	LC1F225●●	280
HD	*90*			*NSX250N Micrologic 2.2 250*	*250*	*3000 (4)*	*LC1F185●●*	*240*
ND	132	–	ATV●A0C13Q4	NSX400N Micrologic 2.3 400	400	4800 (4)	LC1F265●●	300
HD	*110*			*NSX250N Micrologic 2.2 250*	*250*	*3000 (4)*	*LC1F225●●*	*280*
ND	160	–	ATV●A0C16Q4	NSX400N Micrologic 2.3 400	400	4800 (4)	LC1F330●●	360
HD	*132*			*NSX400N Micrologic 2.3 400*	*400*	*4800 (4)*	*LC1F265●●*	*300*
ND	200	–	ATV●A0C20Q4	NSX630N Micrologic 2.3 630	600	6900 (4)	LC1F500●●	580
HD	*160*			*NSX400N Micrologic 2.3 400*	*400*	*4800 (4)*	*LC1F400●●*	*430*
ND	250	–	ATV●A0C25Q4	NSX630N Micrologic 2.3 630	600	6900 (4)	LC1F500●●	580
HD	*200*			*NSX630N Micrologic 2.3 630*	*600*	*6900 (4)*	*LC1F500●●*	*580*
ND	315	–	ATV●A0C31Q4	NS800N Micrologic 5.0	800	1600 (5)	LC1F630●●	850
HD	*250*			*NSX630N Micrologic 2.3 630*	*600*	*6900 (4)*	*LC1F500●●*	*580*
ND	355	–	ATV●A0C35Q4	NS800N Micrologic 5.0	800	1600 (5)	LC1F630●●	850
HD	*280*			*NS630N Micrologic 5.0*	*630*	*1260 (5)*	*LC1F630●●*	*850*
ND	400	–	ATV●A0C40Q4	NS1000N Micrologic 5.0	1000	2000 (5)	LC1F1250●●	1060
HD	*315*			*NS800N Micrologic 5.0*	*800*	*1600 (5)*	*LC1F630●●*	*850*
ND	450	–	ATV●A0C45Q4	NS1000N Micrologic 5.0	1000	2000 (5)	LC1F1250●●	1060
HD	*355*			*NS800N Micrologic 5.0*	*800*	*1600 (5)*	*LC1F630●●*	*850*
ND	500	–	ATV●A0C50Q4	NS1250N Micrologic 5.0	1250	2500 (5)	LC1F1250●●	1060
HD	*400*			*NS1000N Micrologic 5.0*	*1000*	*2000 (5)*	*LC1F1250●●*	*1060*
ND	560	–	ATV●A0C56Q4	NS1250N Micrologic 5.0	1250	2500 (5)	LC1F1400●●	1190
HD	*450*			*NS1000N Micrologic 5.0*	*1000*	*2000 (5)*	*LC1F1250●●*	*1060*
ND	630	–	ATV●A0C63Q4	NS1600N Micrologic 5.0	1600	3200 (5)	LC1F1700●●	1450
HD	*500*			*NS1250N Micrologic 5.0*	*1250*	*2500 (5)*	*LC1F1400●●*	*1190*
ND	710	–	ATV●A0C71Q4	NS1600N Micrologic 5.0	1600	3200 (5)	LC1F2100●●	1750
HD	*560*			*NS1250N Micrologic 5.0*	*1250*	*2500 (5)*	*LC1F1400●●*	*1190*
ND	800	–	ATV●A0C80Q4	MTZ2 20H1 Micrologic 5.0 X	2000	4000 (5)	LC1F2100●●	1750
HD	*630*			*NS1600N Micrologic 5.0*	*1600*	*3200 (5)*	*LC1F1700●●*	*1450*

(1) Replace the dot ● with "6" for ATV6A0 or "9" for ATV9A0.
(2) The type of circuit breaker is selected for Icu min. 50 kA.
(3) Replace the dots ●● with the control circuit voltage code indicated in the documentation for the contactor.
(4) Rated instantaneous short-circuit current setting Ii: fixed
(5) Rated instantaneous short-circuit current setting Ii: 2

Variable speed drives
Altivar Process Modular
Motor starters
IEC 440 V Standard drives

NS800N Micrologic 5.0

+

LC1F630●●

+

ATV9A0C45R4

IEC standard motor starters

Nominal power			Drive	Circuit breaker			Line contactor	
ND: Normal duty *HD: Heavy duty*			Reference *(1)*	Type *(2)*	Rating at 50 °C	Ii	Reference *(3)*	Rating at 60 °C
	kW	*HP*			A	A	A	A
Three-phase supply voltage: 440 V 50/60 Hz								
ND	110	–	**ATV●A0C11R4**	**NSX250N Micrologic 2.2 250**	250	3000 (4)	**LC1F185●●**	240
HD	*90*			***NSX250N Micrologic 2.2 250***	*250*	*3000 (4)*	***LC1D115●●***	*200*
ND	132	–	**ATV●A0C13R4**	**NSX400H Micrologic 2.3 400**	400	4800 (4)	**LC1F225●●**	280
HD	*110*			***NSX250N Micrologic 2.2 250***	*250*	*3000 (4)*	***LC1F185●●***	*240*
ND	160	–	**ATV●A0C16R4**	**NSX400H Micrologic 2.3 400**	400	4800 (4)	**LC1F330●●**	360
HD	*132*			***NSX400H Micrologic 2.3 400***	*400*	*4800 (4)*	***LC1F225●●***	*280*
ND	200	–	**ATV●A0C20R4**	**NSX630H Micrologic 2.3 630**	600	6900 (4)	**LC1F400●●**	430
HD	*160*			***NSX400H Micrologic 2.3 400***	*400*	*4800 (4)*	***LC1F330●●***	*360*
ND	250	–	**ATV●A0C25R4**	**NSX630H Micrologic 2.3 630**	600	6900 (4)	**LC1F500●●**	580
HD	*200*			***NSX630H Micrologic 2.3 630***	*600*	*6900 (4)*	***LC1F400●●***	*430*
ND	315	–	**ATV●A0C31R4**	**NS630bN Micrologic 5.0**	630	1260 (5)	**LC1F630●●**	850
HD	*250*			***NSX630H Micrologic 2.3 630***	*600*	*6900 (4)*	***LC1F500●●***	*580*
ND	355	–	**ATV●A0C35R4**	**NS800N Micrologic 5.0**	800	1600 (5)	**LC1F630●●**	850
HD	*280*			***NSX630H Micrologic 2.3 630***	*600*	*6900 (4)*	***LC1F500●●***	*580*
ND	400	–	**ATV●A0C40R4**	**NS800N Micrologic 5.0**	800	1600 (5)	**LC1F630●●**	850
HD	*315*			***NS630bN Micrologic 5.0***	*630*	*1260 (5)*	***LC1F630●●***	*850*
ND	450	–	**ATV●A0C45R4**	**NS1000N Micrologic 5.0**	1000	2000 (5)	**LC1F1250●●**	1060
HD	*355*			***NS800N Micrologic 5.0***	*800*	*1600 (5)*	***LC1F630●●***	*850*
ND	500	–	**ATV●A0C50R4**	**NS1000N Micrologic 5.0**	1000	2000 (5)	**LC1F1250●●**	1060
HD	*400*			***NS800N Micrologic 5.0***	*800*	*1600 (5)*	***LC1F630●●***	*850*
ND	560	–	**ATV●A0C56R4**	**NS1250N Micrologic 5.0**	1250	2500 (5)	**LC1F1400●●**	1190
HD	*450*			***NS1000N Micrologic 5.0***	*1000*	*2000 (5)*	***LC1F1250●●***	*1060*
ND	630	–	**ATV●A0C63R4**	**NS1250N Micrologic 5.0**	1250	2500 (5)	**LC1F1700●●**	1450
HD	*500*			***NS1000N Micrologic 5.0***	*1000*	*2000 (5)*	***LC1F1250●●***	*1060*
ND	710	–	**ATV●A0C71R4**	**NS1600N Micrologic 5.0**	1600	3200 (5)	**LC1F1700●●**	1450
HD	*560*			***NS1250N Micrologic 5.0***	*1250*	*2500 (5)*	***LC1F1400●●***	*1190*
ND	800	–	**ATV●A0C80R4**	**NS1600N Micrologic 5.0**	1600	3200 (5)	**LC1F2100●●**	1750
HD	*630*			***NS1250N Micrologic 5.0***	*1250*	*2500 (5)*	***LC1F1700●●***	*1450*

(1) Replace the dot ● with "6" for ATV6A0 or "9" for ATV9A0.
(2) The type of circuit breaker is selected for Icu min. 50 kA.
(3) Replace the dots ●● with the control circuit voltage code indicated in the documentation for the contactor.
(4) Rated instantaneous short-circuit current setting Ii: fixed
(5) Rated instantaneous short-circuit current setting Ii: 2

Variable speed drives
Altivar Process Modular
Motor starters
UL 480 V Standard drives

LLL36600U31X

+

LC1F400••

+

ATV9A0C25T4

UL standard motor starters

Nominal power ND: Normal duty HD: Heavy duty			Drive	Circuit breaker			Line contactor	
			Reference (1)	Type (2)	Rating at 50 °C	Ii	Reference (3)	Rating at 60 °C
	kW	HP			A	A	A	A
Three-phase supply voltage: 480 V 50/60 Hz								
ND	–	150	ATV•A0C11T4	JLL36250U31X	250	500 (4)	LC1F185••	240
HD		*125*		*JLL36250U31X*	*250*	*500 (4)*	*LC1D115••*	*200*
ND	–	200	ATV•A0C13T4	LLL36400U31X	400	800 (4)	LC1F225••	280
HD		*150*		*JLL36250U31X*	*250*	*500 (4)*	*LC1F185••*	*240*
ND	–	250	ATV•A0C16T4	LLL36400U31X	400	800 (4)	LC1F330••	360
HD		*200*		*LLL36400U31X*	*400*	*800 (4)*	*LC1F225••*	*280*
ND	–	300	ATV•A0C20T4	LLL36600U31X	600	1200 (4)	LC1F400••	430
HD		*250*		*LLL36400U31X*	*400*	*800 (4)*	*LC1F330••*	*360*
ND	–	400	ATV•A0C25T4	LLL36600U31X	600	1200 (4)	LC1F500••	580
HD		*300*		*LLL36600U31X*	*600*	*1200 (4)*	*LC1F400••*	*430*
ND	–	500	ATV•A0C31T4	PLL34080U31A	736	1600 (4)	LC1F630••	850
HD		*400*		*LLL36600U31X*	*600*	*1200 (4)*	*LC1F500••*	*580*
ND	–	550	ATV•A0C35T4	PLL34080U31A	736	1600 (4)	LC1F630••	850
HD		*450*		*PLL34080U31A*	*736*	*1600 (4)*	*LC1F630••*	*850*
ND	–	600	ATV•A0C40T4	PLL34100U44A	920	2000 (4)	LC1F630••	850
HD		*500*		*PLL34080U31A*	*736*	*1600 (4)*	*LC1F630••*	*850*
ND	–	650	ATV•A0C45T4	PLL34100U44A	920	2000 (4)	LC1F1250••	1060
HD		*550*		*PLL34080U31A*	*736*	*1600 (4)*	*LC1F630••*	*850*
ND	–	700	ATV•A0C50T4	PLL34100U44A	920	2000 (4)	LC1F1250••	1060
HD		*600*		*PLL34100U44A*	*920*	*2000 (4)*	*LC1F630••*	*850*
ND	–	800	ATV•A0C56T4	PLL34120U44A	1104	2400 (4)	LC1F1250••	1060
HD		*650*		*PLL34100U44A*	*920*	*2000 (4)*	*LC1F1250••*	*1060*
ND	–	900	ATV•A0C63T4	RLF36160U44A	1472	3200 (4)	LC1F1400••	1190
HD		*700*		*PLL34120U44A*	*1104*	*2400 (4)*	*LC1F1250••*	*1060*
ND	–	1000	ATV•A0C71T4	RLF36160U44A	1472	3200 (4)	LC1F1700••	1450
HD		*800*		*PLL34120U44A*	*1104*	*2400 (4)*	*LC1F1250••*	*1060*
ND	–	1100	ATV•A0C80T4	RLF36160U44A	1472	3200 (4)	LC1F1700••	1450
HD		*900*		*RLF36160U44A*	*1472*	*3200 (4)*	*LC1F1400••*	*1190*

(1) Replace the dot • with "6" for ATV6A0 or "9" for ATV9A0.
(2) The type of circuit breaker is selected for Icu min. 50 kA.
(3) Replace the dots •• with the control circuit voltage code indicated in the documentation for the contactor.
(4) Rated instantaneous short-circuit current setting Ii: fixed
(5) Rated instantaneous short-circuit current setting Ii: 2

Variable speed drives
Altivar Process Modular
Motor starters
IEC 500 V and UL 600V Standard drives

JRL36250U31X

+

LC1D115●●

+

ATV6A0C13T6

IEC and UL standard motor starters

Nominal power ND: Normal duty HD: Heavy duty			Drive	Circuit breaker			Line contactor	
			Reference (1)	Type (2)	Rating at 50 °C	Ii	Reference (3)	Rating at 60 °C
	kW	HP			A	A	A	A
Three-phase supply voltage: 500 V 50/60 Hz								
ND	75	–	ATV●A0C11N6	NSX160L Micrologic 2.2 160	160	2400 (4)	LC1D115●●	200
HD	*55*			***NSX160L Micrologic 2.2 160***	*160*	*2400 (4)*	***LC1D80●●***	*125*
ND	90	–	ATV●A0C13N6	NSX250L Micrologic 2.2 250	250	3000 (4)	LC1D115●●	200
HD	*75*			***NSX160L Micrologic 2.2 160***	*160*	*2400 (4)*	***LC1D115●●***	*200*
ND	110	–	ATV●A0C16N6	NSX250L Micrologic 2.2 250	250	3000 (4)	LC1D115●●	200
HD	*90*			***NSX250L Micrologic 2.2 250***	*250*	*3000 (4)*	***LC1D115●●***	*200*
ND	132	–	ATV●A0C20N6	NSX250L Micrologic 2.2 250	250	3000 (4)	LC1F185●●	240
HD	*110*			***NSX250L Micrologic 2.2 250***	*250*	*3000 (4)*	***LC1D115●●***	*200*
ND	160	–	ATV●A0C25N6	NSX400L Micrologic 2.3 400	400	4800 (4)	LC1F265●●	300
HD	*132*			***NSX250L Micrologic 2.2 250***	*250*	*3000 (4)*	***LC1F185●●***	*240*
ND	220	–	ATV●A0C31N6	NSX400L Micrologic 2.3 400	400	4800 (4)	LC1F400●●	430
HD	*160*			***NSX400L Micrologic 2.3 400***	*400*	*4800 (4)*	***LC1F265●●***	*300*
ND	280	–	ATV●A0C40N6	NSX630L Micrologic 2.3 630	600	6900 (4)	LC1F500●●	580
HD	*220*			***NSX400L Micrologic 2.3 400***	*400*	*4800 (4)*	***LC1F400●●***	*430*
ND	355	–	ATV●A0C50N6	NS630bH Micrologic 5.0	630	1260 (5)	LC1F630●●	850
HD	*280*			***NSX630L Micrologic 2.3 630***	*600*	*6900 (4)*	***LC1F500●●***	*580*
ND	450	–	ATV●A0C63N6	NS800H Micrologic 5.0	800	1600 (5)	LC1F630●●	850
HD	*355*			***NS630bH Micrologic 5.0***	*630*	*1260 (5)*	***LC1F630●●***	*850*
ND	560	–	ATV●A0C80N6	NS1000H Micrologic 5.0	1000	2000 (5)	LC1F1250●●	1060
HD	*450*			***NS800H Micrologic 5.0***	*800*	*1600 (5)*	***LC1F630●●***	*850*
ND	710	–	ATV●A0M10N6	NS1250H Micrologic 5.0	1250	2500 (5)	LC1F1700●●	1450
HD	*560*			***NS1000H Micrologic 5.0***	*1000*	*2000 (5)*	***LC1F1250●●***	*1060*
ND	800	–	ATV●A0M12N6	NS1600H Micrologic 5.0	1600	3200 (5)	LC1F1700●●	1450
HD	*710*			***NS1250H Micrologic 5.0***	*1250*	*2500 (5)*	***LC1F1700●●***	*1450*
Three-phase supply voltage: 600 V 50/60 Hz								
ND	–	125	ATV●A0C11T6	HRL36150U31X	150	300 (4)	LC1D115●●	200
HD		*100*		***HRL36150U31X***	*150*	*300 (4)*	***LC1D80●●***	*125*
ND	–	150	ATV●A0C13T6	JRL36250U31X	250	500 (4)	LC1D115●●	200
HD		*125*		***HRL36150U31X***	*150*	*300 (4)*	***LC1D115●●***	*200*
ND	–	175	ATV●A0C16T6	JRL36250U31X	250	500 (4)	LC1D115●●	200
HD		*150*		***JRL36250U31X***	*250*	*500 (4)*	***LC1D115●●***	*200*
ND	–	200	ATV●A0C20T6	JRL36250U31X	250	500 (4)	LC1F185●●	240
HD		*175*		***JRL36250U31X***	*250*	*500 (4)*	***LC1D115●●***	*200*
ND	–	250	ATV●A0C25T6	LRL36400U31X	400	800 (4)	LC1F225●●	280
HD		*200*		***JRL36250U31X***	*250*	*500 (4)*	***LC1F185●●***	*240*
ND	–	350	ATV●A0C31T6	LRL36400U31X	400	800 (4)	LC1F400●●	430
HD		*250*		***LRL36400U31X***	*400*	*800 (4)*	***LC1F225●●***	*280*
ND	–	450	ATV●A0C40T6	LRL36600U31X	600	1200 (4)	LC1F500●●	580
HD		*350*		***LRL36400U31X***	*400*	*800 (4)*	***LC1F400●●***	*430*
ND	–	550	ATV●A0C50T6	LRL36600U31X	600	1200 (4)	LC1F500●●	580
HD		*450*		***LRL36600U31X***	*600*	*1200 (4)*	***LC1F500●●***	*580*
ND	–	650	ATV●A0C63T6	MTZ2 08L Micrologic 3.0 X	736	1600 (4)	LC1F630●●	850
HD		*550*		***LRL36600U31X***	*600*	*1200 (4)*	***LC1F500●●***	*580*
ND	–	800	ATV●A0C80T6	MTZ2 12L Micrologic 6.0 X	1104	2400 (4)	LC1F630●●	850
HD		*650*		***MTZ2 08L Micrologic 3.0 X***	*736*	*1600 (4)*	***LC1F630●●***	*850*
ND	–	1000	ATV●A0M10T6	MTZ2 12L Micrologic 6.0 X	1104	2400 (4)	LC1F1250●●	1060
HD		*800*		***MTZ2 12L Micrologic 6.0 X***	*1104*	*2400 (4)*	***LC1F630●●***	*850*
ND	–	1200	ATV●A0M12T6	MTZ2 16L Micrologic 6.0 X	1472	3200 (4)	LC1F1700●●	1450
HD		*1000*		***MTZ2 12L Micrologic 6.0 X***	*1104*	*2400 (4)*	***LC1F1250●●***	*1060*

(1) Replace the dot ● with "6" for ATV6A0 or "9" for ATV9A0.
(2) The type of circuit breaker is selected for Icu min. 50 kA.
(3) Replace the dots ●● with the control circuit voltage code indicated in the documentation for the contactor.
(4) Rated instantaneous short-circuit current setting Ii: fixed
(5) Rated instantaneous short-circuit current setting Ii: 2

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Variable speed drives
Altivar Process Modular
Motor starters
IEC 690 V Standard drives

NSX400HB1 Micrologic 2.3 400

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LC1F330●●

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ATV9A0C25Q6

IEC standard motor starters

Nominal power			Drive	Circuit breaker			Line contactor	
ND: Normal duty *HD: Heavy duty*			Reference *(1)*	Type *(2)*	Rating at 50 °C	Ii	Reference *(3)*	Rating at 60 °C
	kW	*HP*			A	A	A	A
Three-phase supply voltage: 690 V 50/60 Hz								
ND	*110*	–	**ATV●A0C11Q6**	**NSX250HB1 Micrologic 2.2 160**	160	2400 (4)	**LC1D115●●**	200
HD	*90*			***NSX250HB1 Micrologic 2.2 160***	*160*	*2400 (4)*	***LC1D80●●***	*125*
ND	*132*	–	**ATV●A0C13Q6**	**NSX250HB1 Micrologic 2.2 250**	250	3000 (4)	**LC1D115●●**	200
HD	*110*			***NSX250HB1 Micrologic 2.2 160***	*160*	*2400 (4)*	***LC1D115●●***	*200*
ND	*160*	–	**ATV●A0C16Q6**	**NSX250HB1 Micrologic 2.2 250**	250	3000 (4)	**LC1F185●●**	240
HD	*132*			***NSX250HB1 Micrologic 2.2 250***	*250*	*3000 (4)*	***LC1D115●●***	*200*
ND	*200*	–	**ATV●A0C20Q6**	**NSX250HB1 Micrologic 2.2 250**	250	3000 (4)	**LC1F225●●**	280
HD	*160*			***NSX250HB1 Micrologic 2.2 250***	*250*	*3000 (4)*	***LC1F185●●***	*240*
ND	*250*	–	**ATV●A0C25Q6**	**NSX400HB1 Micrologic 2.3 400**	400	4800 (4)	**LC1F330●●**	360
HD	*200*			***NSX400HB1 Micrologic 2.3 400***	*400*	*4800 (4)*	***LC1F225●●***	*280*
ND	*315*	–	**ATV●A0C31Q6**	**NSX400HB1 Micrologic 2.3 400**	400	4800 (4)	**LC1F400●●**	430
HD	*250*			***NSX400HB1 Micrologic 2.3 400***	*400*	*4800 (4)*	***LC1F330●●***	*360*
ND	*400*	–	**ATV●A0C40Q6**	**NSX630HB1 Micrologic 2.3 630**	600	6900 (4)	**LC1F500●●**	580
HD	*315*			***NSX400HB1 Micrologic 2.3 400***	*400*	*4800 (4)*	***LC1F400●●***	*430*
ND	*500*	–	**ATV●A0C50Q6**	**NS630bLB Micrologic 5.0**	630	1260 (5)	**LC1F630●●**	850
HD	*400*			***NSX630HB1 Micrologic 2.3 630***	*600*	*6900 (4)*	***LC1F500●●***	*580*
ND	*630*	–	**ATV●A0C63Q6**	**NS800LB Micrologic 5.0**	800	1600 (5)	**LC1F630●●**	850
HD	*500*			***NS630bLB Micrologic 5.0***	*630*	*1260 (5)*	***LC1F630●●***	*850*
ND	*800*	–	**ATV●A0C80Q6**	**MTZ2 10H1 Micrologic 5.0 X**	1000	2000 (5)	**LC1F1250●●**	1060
HD	*630*			***NS800LB Micrologic 5.0***	*800*	*1600 (5)*	***LC1F630●●***	*850*
ND	*1000*	–	**ATV●A0M10Q6**	**MTZ2 12H1 Micrologic 5.0 X**	1250	2500 (5)	**LC1F1700●●**	1450
HD	*800*			***MTZ2 10H1 Micrologic 5.0 X***	*1000*	*2000 (5)*	***LC1F1250●●***	*1060*
ND	*1200*	–	**ATV●A0M12Q6**	**MTZ2 16H1 Micrologic 5.0 X**	1600	3200 (5)	**LC1F2100●●**	1750
HD	*1000*			***MTZ2 12H1 Micrologic 5.0 X***	*1250*	*2500 (5)*	***LC1F1700●●***	*1450*

(1) Replace the dot ● with "6" for ATV6A0 or "9" for ATV9A0.
(2) The type of circuit breaker is selected for Icu min. 50 kA.
(3) Replace the dots ●● with the control circuit voltage code indicated in the documentation for the contactor.
(4) Rated instantaneous short-circuit current setting Ii: fixed
(5) Rated instantaneous short-circuit current setting Ii: 2

Variable speed drives
Altivar Process Modular
Motor starters
IEC 400 V Low Harmonic/Regen drives

NSX630N Micrologic 2.3 630

+

LC1F500●●

+

ATV9B0C25Q4

IEC standard motor starters

Nominal power			Drive	Circuit breaker			Line contactor	
ND: Normal duty *HD: Heavy duty*			Reference *(1)*	Type *(2)*	Rating at 50 °C	Ii	Reference *(3)*	Rating at 60 °C
	kW	HP			A	A	A	A
Three-phase supply voltage: 400 V 50/60 Hz								
ND	110	–	ATV●B0C11Q4	NSX250N Micrologic 2.2 250	250	3000 (4)	LC1F225●●	280
HD	*90*			***NSX250N Micrologic 2.2 250***	*250*	*3000 (4)*	***LC1F185●●***	*240*
ND	132	–	ATV●B0C13Q4	NSX400N Micrologic 2.3 400	400	4800 (4)	LC1F265●●	300
HD	*110*			***NSX250N Micrologic 2.2 250***	*250*	*3000 (4)*	***LC1F225●●***	*280*
ND	160	–	ATV●B0C16Q4	NSX400N Micrologic 2.3 400	400	4800 (4)	LC1F330●●	360
HD	*132*			***NSX400N Micrologic 2.3 400***	*400*	*4800 (4)*	***LC1F265●●***	*300*
ND	200	–	ATV●B0C20Q4	NSX630N Micrologic 2.3 630	600	6900 (4)	LC1F500●●	580
HD	*160*			***NSX400N Micrologic 2.3 400***	*400*	*4800 (4)*	***LC1F400●●***	*430*
ND	250	–	ATV●B0C25Q4	NSX630N Micrologic 2.3 630	600	6900 (4)	LC1F500●●	580
HD	*200*			***NSX630N Micrologic 2.3 630***	*600*	*6900 (4)*	***LC1F500●●***	*580*
ND	315	–	ATV●B0C31Q4	NS800N Micrologic 5.0	800	1600 (5)	LC1F630●●	850
HD	*250*			***NSX630N Micrologic 2.3 630***	*600*	*6900 (4)*	***LC1F500●●***	*580*
ND	355	–	ATV●B0C35Q4	NS800N Micrologic 5.0	800	1600 (5)	LC1F630●●	850
HD	*280*			***NS630bN Micrologic 5.0***	*630*	*1260 (5)*	***LC1F630●●***	*850*
ND	400	–	ATV●B0C40Q4	NS1000N Micrologic 5.0	1000	2000 (5)	LC1F1250●●	1060
HD	*315*			***NS800N Micrologic 5.0***	*800*	*1600 (5)*	***LC1F630●●***	*850*
ND	450	–	ATV●B0C45Q4	NS1000N Micrologic 5.0	1000	2000 (5)	LC1F1250●●	1060
HD	*355*			***NS800N Micrologic 5.0***	*800*	*1600 (5)*	***LC1F630●●***	*850*
ND	500	–	ATV●B0C50Q4	NS1250N Micrologic 5.0	1250	2500 (5)	LC1F1250●●	1060
HD	*400*			***NS1000N Micrologic 5.0***	*1000*	*2000 (5)*	***LC1F1250●●***	*1060*
ND	560	–	ATV●B0C56Q4	NS1250N Micrologic 5.0	1250	2500 (5)	LC1F1400●●	1190
HD	*450*			***NS1000N Micrologic 5.0***	*1000*	*2000 (5)*	***LC1F1250●●***	*1060*
ND	630	–	ATV●B0C63Q4	NS1600N Micrologic 5.0	1600	3200 (5)	LC1F1700●●	1450
HD	*500*			***NS1250N Micrologic 5.0***	*1250*	*2500 (5)*	***LC1F1400●●***	*1190*
ND	710	–	ATV●B0C71Q4	NS1600N Micrologic 5.0	1600	3200 (5)	LC1F2100●●	1750
HD	*560*			***NS1250N Micrologic 5.0***	*1250*	*2500 (5)*	***LC1F1400●●***	*1190*
ND	800	–	ATV●B0C80Q4	MTZ2 20H1 Micrologic 5.0 X	2000	4000 (5)	LC1F2100●●	1750
HD	*630*			***NS1600N Micrologic 5.0***	*1600*	*3200 (5)*	***LC1F1700●●***	*1450*

(1) Replace the dot ● with "6" for ATV6A0 or "9" for ATV9A0.
(2) The type of circuit breaker is selected for Icu min. 50 kA.
(3) Replace the dots ●● with the control circuit voltage code indicated in the documentation for the contactor.
(4) Rated instantaneous short-circuit current setting Ii: fixed
(5) Rated instantaneous short-circuit current setting Ii: 2

Variable speed drives
Altivar Process Modular
Motor starters
IEC 440 V Low Harmonic/Regen drives

NSX250N Micrologic 2.2 250

+

LC1D115●●

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ATV6B0C11R4

IEC standard motor starters

Nominal power			Drive	Circuit breaker			Line contactor	
ND: Normal duty *HD: Heavy duty*			Reference *(1)*	Type *(2)*	Rating at 50 °C	Ii	Reference *(3)*	Rating at 60 °C
	kW	*HP*			A	A	A	A
Three-phase supply voltage: 440 V 50/60 Hz								
ND	*110*	–	**ATV●B0C11R4**	**NSX250N Micrologic 2.2 250**	250	3000 (4)	**LC1D115●●**	200
HD	*90*			***NSX250N Micrologic 2.2 250***	*250*	*3000 (4)*	***LC1D115●●***	*200*
ND	*132*	–	**ATV●B0C13R4**	**NSX250N Micrologic 2.2 250**	250	3000 (4)	**LC1F185●●**	240
HD	*110*			***NSX250N Micrologic 2.2 250***	*250*	*3000 (4)*	***LC1D115●●***	*200*
ND	*160*	–	**ATV●B0C16R4**	**NSX400H Micrologic 2.3 400**	400	4800 (4)	**LC1F265●●**	300
HD	*132*			***NSX250N Micrologic 2.2 250***	*250*	*3000 (4)*	***LC1F185●●***	*240*
ND	*200*	–	**ATV●B0C20R4**	**NSX400H Micrologic 2.3 400**	400	4800 (4)	**LC1F330●●**	360
HD	*160*			***NSX400H Micrologic 2.3 400***	*400*	*4800 (4)*	***LC1F265●●***	*300*
ND	*250*	–	**ATV●B0C25R4**	**NSX630H Micrologic 2.3 630**	600	6900 (4)	**LC1F500●●**	580
HD	*200*			***NSX400H Micrologic 2.3 400***	*400*	*4800 (4)*	***LC1F330●●***	*360*
ND	*315*	–	**ATV●B0C31R4**	**NSX630H Micrologic 2.3 630**	600	6900 (4)	**LC1F500●●**	580
HD	*250*			***NSX630H Micrologic 2.3 630***	*600*	*6900 (4)*	***LC1F500●●***	*580*
ND	*355*	–	**ATV●B0C35R4**	**NS630bN Micrologic 5.0**	630	1260 (5)	**LC1F630●●**	850
HD	*280*			***NSX630H Micrologic 2.3 630***	*600*	*6900 (4)*	***LC1F500●●***	*580*
ND	*400*	–	**ATV●B0C40R4**	**NS800N Micrologic 5.0**	800	1600 (5)	**LC1F630●●**	850
HD	*315*			***NSX630H Micrologic 2.3 630***	*600*	*6900 (4)*	***LC1F500●●***	*580*
ND	*450*	–	**ATV●B0C45R4**	**NS800N Micrologic 5.0**	800	1600 (5)	**LC1F630●●**	850
HD	*355*			***NS630bN Micrologic 5.0***	*630*	*1260 (5)*	***LC1F630●●***	*850*
ND	*500*	–	**ATV●B0C50R4**	**NS1000N Micrologic 5.0**	1000	2000 (5)	**LC1F1250●●**	1060
HD	*400*			***NS800N Micrologic 5.0***	*800*	*1600 (5)*	***LC1F630●●***	*850*
ND	*560*	–	**ATV●B0C56R4**	**NS1000N Micrologic 5.0**	1000	2000 (5)	**LC1F1250●●**	1060
HD	*450*			***NS800N Micrologic 5.0***	*800*	*1600 (5)*	***LC1F630●●***	*850*
ND	*630*	–	**ATV●B0C63R4**	**NS1250N Micrologic 5.0**	1250	2500 (5)	**LC1F1400●●**	1190
HD	*500*			***NS1000N Micrologic 5.0***	*1000*	*2000 (5)*	***LC1F1250●●***	*1060*
ND	*710*	–	**ATV●B0C71R4**	**NS1250N Micrologic 5.0**	1250	2500 (5)	**LC1F1700●●**	1450
HD	*560*			***NS1000N Micrologic 5.0***	*1000*	*2000 (5)*	***LC1F1250●●***	*1060*
ND	*800*	–	**ATV●B0C80R4**	**NS1600N Micrologic 5.0**	1600	3200 (5)	**LC1F1700●●**	1450
HD	*630*			***NS1250N Micrologic 5.0***	*1250*	*2500 (5)*	***LC1F1400●●***	*1190*

(1) Replace the dot ● with "6" for ATV6A0 or "9" for ATV9A0.
(2) The type of circuit breaker is selected for Icu min. 50 kA.
(3) Replace the dots ●● with the control circuit voltage code indicated in the documentation for the contactor.
(4) Rated instantaneous short-circuit current setting Ii: fixed
(5) Rated instantaneous short-circuit current setting Ii: 2

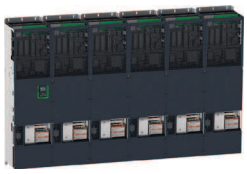
Variable speed drives
Altivar Process Modular
Motor starters
UL 480 V Low Harmonic/Regen drives

RLF36160U44A

+

LC1F1700●●

+



ATV9B0C80T4

UL standard motor starters

Nominal power			Drive	Circuit breaker			Line contactor	
ND: Normal duty *HD: Heavy duty*			Reference *(1)*	Type *(2)*	Rating at 50 °C	Ii	Reference *(3)*	Rating at 60 °C
	kW	*HP*			A	A	A	A
Three-phase supply voltage: 480 V 50/60 Hz								
ND	–	*150*	**ATV●B0C11T4**	**JLL36250U31X**	250	500 (4)	**LC1D115●●**	200
HD		*125*		***JLL36250U31X***	*250*	*500 (4)*	***LC1D115●●***	*200*
ND	–	*200*	**ATV●B0C13T4**	**JLL36250U31X**	250	500 (4)	**LC1F225●●**	280
HD		*150*		***JLL36250U31X***	*250*	*500 (4)*	***LC1D115●●***	*200*
ND	–	*250*	**ATV●B0C16T4**	**LLL36400U31X**	400	800 (4)	**LC1F330●●**	360
HD		*200*		***JLL36250U31X***	*250*	*500 (4)*	***LC1F225●●***	*280*
ND	–	*300*	**ATV●B0C20T4**	**LLL36400U31X**	400	800 (4)	**LC1F400●●**	430
HD		*250*		***LLL36400U31X***	*400*	*800 (4)*	***LC1F330●●***	*360*
ND	–	*400*	**ATV●B0C25T4**	**LLL36600U31X**	600	1200 (4)	**LC1F500●●**	580
HD		*300*		***LLL36400U31X***	*400*	*800 (4)*	***LC1F400●●***	*430*
ND	–	*500*	**ATV●B0C31T4**	**PLL34080U31A**	736	1600 (4)	**LC1F630●●**	850
HD		*400*		***LLL36600U31X***	*600*	*1200 (4)*	***LC1F500●●***	*580*
ND	–	*550*	**ATV●B0C35T4**	**PLL34080U31A**	736	1600 (4)	**LC1F630●●**	850
HD		*450*		***LLL36600U44X***	*600*	*1200 (4)*	***LC1F500●●***	*580*
ND	–	*600*	**ATV●B0C40T4**	**PLL34080U31A**	736	1600 (4)	**LC1F630●●**	850
HD		*500*		***PLL34080U31A***	*736*	*1600 (4)*	***LC1F630●●***	*850*
ND	–	*650*	**ATV●B0C45T4**	**PLL34100U44A**	920	2000 (4)	**LC1F630●●**	850
HD		*550*		***PLL34080U31A***	*736*	*1600 (4)*	***LC1F630●●***	*850*
ND	–	*700*	**ATV●B0C50T4**	**PLL34100U44A**	920	2000 (4)	**LC1F630●●**	850
HD		*600*		***PLL34080U31A***	*736*	*1600 (4)*	***LC1F630●●***	*850*
ND	–	*800*	**ATV●B0C56T4**	**PLL34120U44A**	1104	2400 (4)	**LC1F1250●●**	1060
HD		*650*		***PLL34100U44A***	*920*	*2000 (4)*	***LC1F630●●***	*850*
ND	–	*900*	**ATV●B0C63T4**	**PLL34120U44A**	1104	2400 (4)	**LC1F1400●●**	1190
HD		*700*		***PLL34100U44A***	*920*	*2000 (4)*	***LC1F630●●***	*850*
ND	–	*1000*	**ATV●B0C71T4**	**RLF36160U44A**	1472	3200 (4)	**LC1F1700●●**	1450
HD		*800*		***PLL34120U44A***	*1104*	*2400 (4)*	***LC1F1250●●***	*1060*
ND	–	*1100*	**ATV●B0C80T4**	**RLF36160U44A**	1472	3200 (4)	**LC1F1700●●**	1450
HD		*900*		***PLL34120U44A***	*1104*	*2400 (4)*	***LC1F1400●●***	*1190*

(1) Replace the dot ● with "6" for ATV6A0 or "9" for ATV9A0.
(2) The type of circuit breaker is selected for Icu min. 50 kA.
(3) Replace the dots ●● with the control circuit voltage code indicated in the documentation for the contactor.
(4) Rated instantaneous short-circuit current setting Ii: fixed
(5) Rated instantaneous short-circuit current setting Ii: 2

Variable speed drives
Altivar Process Modular
Motor starters
IEC 500 V and UL 600V Low Harmonic/Regen drives

LRL36600U31X

+

LC1F500●

+

ATV6A0C50T6

IEC and UL standard motor starters

Nominal power ND: Normal duty HD: Heavy duty			Drive	Circuit breaker			Line contactor	
			Reference (1)	Type (2)	Rating at 50 °C	Ii	Reference (3)	Rating at 60 °C
	kW	HP			A	A	A	A
Three-phase supply voltage: 500 V 50/60 Hz								
ND	75	–	ATV●B0C11N6	NSX160L Micrologic 2.2 160	160	2400 (4)	LC1D80●●	125
HD	*55*			***NSX100L Micrologic 2.2 100***	*100*	*1500 (4)*	***LC1D80●●***	*125*
ND	90	–	ATV●B0C13N6	NSX160L Micrologic 2.2 160	160	2400 (4)	LC1D115●●	200
HD	*75*			***NSX160L Micrologic 2.2 160***	*160*	*2400 (4)*	***LC1D80●●***	*125*
ND	110	–	ATV●B0C16N6	NSX250L Micrologic 2.2 250	250	3000 (4)	LC1D115●●	200
HD	*90*			***NSX160L Micrologic 2.2 160***	*160*	*2400 (4)*	***LC1D115●●***	*200*
ND	132	–	ATV●B0C20N6	NSX250L Micrologic 2.2 250	250	3000 (4)	LC1F185●●	240
HD	*110*			***NSX250L Micrologic 2.2 250***	*250*	*3000 (4)*	***LC1D115●●***	*200*
ND	160	–	ATV●B0C25N6	NSX400L Micrologic 2.3 400	400	4800 (4)	LC1F225●●	280
HD	*132*			***NSX250L Micrologic 2.2 250***	*250*	*3000 (4)*	***LC1F185●●***	*240*
ND	220	–	ATV●B0C31N6	NSX400L Micrologic 2.3 400	400	4800 (4)	LC1F330●●	360
HD	*160*			***NSX400L Micrologic 2.3 400***	*400*	*4800 (4)*	***LC1F225●●***	*280*
ND	280	–	ATV●B0C40N6	NSX630L Micrologic 2.3 630	600	6900 (4)	LC1F500●●	580
HD	*220*			***NSX400L Micrologic 2.3 400***	*400*	*4800 (4)*	***LC1F330●●***	*360*
ND	355	–	ATV●B0C50N6	NSX630L Micrologic 2.3 630	600	6900 (4)	LC1F630●●	850
HD	*280*			***NSX630L Micrologic 2.3 630***	*600*	*6900 (4)*	***LC1F500●●***	*580*
ND	450	–	ATV●B0C63N6	NS800H Micrologic 5.0	800	1600 (5)	LC1F630●●	850
HD	*355*			***NSX630L Micrologic 2.3 630***	*600*	*6900 (4)*	***LC1F500●●***	*580*
ND	560	–	ATV●B0C80N6	NS1000H Micrologic 5.0	1000	2000 (5)	LC1F1250●●	1060
HD	*450*			***NS800H Micrologic 5.0***	*800*	*1600 (5)*	***LC1F630●●***	*850*
ND	710	–	ATV●B0M10N6	NS1250H Micrologic 5.0	1250	2500 (5)	LC1F1400●●	1190
HD	*560*			***NS1000H Micrologic 5.0***	*1000*	*2000 (5)*	***LC1F1250●●***	*1060*
ND	800	–	ATV●B0M12N6	NS1250H Micrologic 5.0	1250	2500 (5)	LC1F1700●●	1450
HD	*710*			***NS1250H Micrologic 5.0***	*1250*	*2500 (5)*	***LC1F1400●●***	*1190*
Three-phase supply voltage: 600 V 50/60 Hz								
ND	–	125	ATV●B0C11T6	HRL36150U31X	150	300 (4)	LC1D115●●	200
HD		*100*		***HRL36150U31X***	*150*	*300 (4)*	***LC1D80●●***	*125*
ND	–	150	ATV●B0C13T6	JRL36250U31X	250	500 (4)	LC1D115●●	200
HD		*125*		***HRL36150U31X***	*150*	*300 (4)*	***LC1D115●●***	*200*
ND	–	175	ATV●B0C16T6	JRL36250U31X	250	500 (4)	LC1D115●●	200
HD		*150*		***JRL36250U31X***	*250*	*500 (4)*	***LC1D115●●***	*200*
ND	–	200	ATV●B0C20T6	JRL36250U31X	250	500 (4)	LC1F185●●	240
HD		*175*		***JRL36250U31X***	*250*	*500 (4)*	***LC1D115●●***	*200*
ND	–	250	ATV●B0C25T6	JRL36250U31X	250	500 (4)	LC1F225●●	280
HD		*200*		***JRL36250U31X***	*250*	*500 (4)*	***LC1D115●●***	*200*
ND	–	350	ATV●B0C31T6	LRL36400U31X	400	800 (4)	LC1F330●●	360
HD		*250*		***JRL36250U31X***	*250*	*500 (4)*	***LC1F225●●***	*280*
ND	–	450	ATV●B0C40T6	LRL36600U31X	600	1200 (4)	LC1F500●●	580
HD		*350*		***LRL36400U31X***	*400*	*800 (4)*	***LC1F330●●***	*360*
ND	–	550	ATV●B0C50T6	LRL36600U31X	600	1200 (4)	LC1F500●●	580
HD		*450*		***LRL36600U31X***	*600*	*1200 (4)*	***LC1F500●●***	*580*
ND	–	650	ATV●B0C63T6	MTZ2 08L Micrologic 3.0 X	736	1600 (4)	LC1F630●●	850
HD		*550*		***LRL36600U31X***	*600*	*1200 (4)*	***LC1F500●●***	*580*
ND	–	800	ATV●B0C80T6	MTZ2 12L Micrologic 6.0 X	1104	2400 (4)	LC1F630●●	850
HD		*650*		***MTZ2 08L Micrologic 3.0 X***	*736*	*1600 (4)*	***LC1F630●●***	*850*
ND	–	1000	ATV●B0M10T6	MTZ2 12L Micrologic 6.0 X	1104	2400 (4)	LC1F1250●●	1060
HD		*800*		***MTZ2 12L Micrologic 6.0 X***	*1104*	*2400 (4)*	***LC1F630●●***	*850*
ND	–	1200	ATV●B0M12T6	MTZ2 16L Micrologic 6.0 X	1472	3200 (4)	LC1F1400●●	1190
HD		*1000*		***MTZ2 12L Micrologic 6.0 X***	*1104*	*2400 (4)*	***LC1F1250●●***	*1060*

(1) Replace the dot ● with "6" for ATV6A0 or "9" for ATV9A0.
(2) The type of circuit breaker is selected for Icu min. 50 kA.
(3) Replace the dots ●● with the control circuit voltage code indicated in the documentation for the contactor.
(4) Rated instantaneous short-circuit current setting Ii: fixed
(5) Rated instantaneous short-circuit current setting Ii: 2

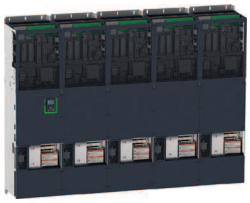
Variable speed drives
Altivar Process Modular
Motor starters
IEC 690 V Low Harmonic/Regen drives

MTZ2 16H1

+

LC1F1700●●

+



ATV6B0M10Q6

IEC standard motor starters

Nominal power			Drive	Circuit breaker			Line contactor	
ND: Normal duty *HD: Heavy duty*			Reference *(1)*	Type *(2)*	Rating at 50 °C	Ii	Reference *(3)*	Rating at 60 °C
	kW	HP			A	A	A	A
Three-phase supply voltage: 690 V 50/60 Hz								
ND	110	–	ATV●B0C11Q6	NSX250HB1 Micrologic 2.2 160	160	2400 (4)	LC1D115●●	200
HD	*90*			***NSX250HB1 Micrologic 2.2 160***	*160*	*2400 (4)*	***LC1D80●●***	*125*
ND	132	–	ATV●B0C13Q6	NSX250HB1 Micrologic 2.2 160	160	2400 (4)	LC1D115●●	200
HD	*110*			***NSX250HB1 Micrologic 2.2 160***	*160*	*2400 (4)*	***LC1D115●●***	*200*
ND	160	–	ATV●B0C16Q6	NSX250HB1 Micrologic 2.2 250	250	3000 (4)	LC1D115●●	200
HD	*132*			***NSX250HB1 Micrologic 2.2 160***	*160*	*2400 (4)*	***LC1D115●●***	*200*
ND	200	–	ATV●B0C20Q6	NSX250HB1 Micrologic 2.2 250	250	3000 (4)	LC1F185●●	240
HD	*160*			***NSX250HB1 Micrologic 2.2 250***	*250*	*3000 (4)*	***LC1D115●●***	*200*
ND	250	–	ATV●B0C25Q6	NSX400HB1 Micrologic 2.3 400	400	4800 (4)	LC1F265●●	300
HD	*200*			***NSX250HB1 Micrologic 2.2 250***	*250*	*3000 (4)*	***LC1F185●●***	*240*
ND	315	–	ATV●B0C31Q6	NSX400HB1 Micrologic 2.3 400	400	4800 (4)	LC1F330●●	360
HD	*250*			***NSX400HB1 Micrologic 2.3 400***	*400*	*4800 (4)*	***LC1F265●●***	*300*
ND	400	–	ATV●B0C40Q6	NSX630HB1 Micrologic 2.3 630	600	6900 (4)	LC1F500●●	580
HD	*315*			***NSX400HB1 Micrologic 2.3 400***	*400*	*4800 (4)*	***LC1F330●●***	*360*
ND	500	–	ATV●B0C50Q6	NSX630HB1 Micrologic 2.3 630	600	6900 (4)	LC1F500●●	580
HD	*400*			***NSX630HB1 Micrologic 2.3 630***	*600*	*6900 (4)*	***LC1F500●●***	*580*
ND	630	–	ATV●B0C63Q6	NS800LB Micrologic 5.0	800	1600 (5)	LC1F630●●	850
HD	*500*			***NSX630HB1 Micrologic 2.3 630***	*600*	*6900 (4)*	***LC1F500●●***	*580*
ND	800	–	ATV●B0C80Q6	MTZ2 10H1 Micrologic 5.0 X	1000	2000 (5)	LC1F1250●●	1060
HD	*630*			***NS800LB Micrologic 5.0***	*800*	*1600 (5)*	***LC1F630●●***	*850*
ND	1000	–	ATV●B0M10Q6	MTZ2 12H1 Micrologic 5.0 X	1250	2500 (5)	LC1F1400●●	1190
HD	*800*			***MTZ2 10H1 Micrologic 5.0 X***	*1000*	*2000 (5)*	***LC1F1250●●***	*1060*
ND	1200	–	ATV●B0M12Q6	MTZ2 16H1 Micrologic 5.0 X	1600	3200 (5)	LC1F1700●●	1450
HD	*1000*			***MTZ2 12H1 Micrologic 5.0 X***	*1250*	*2500 (5)*	***LC1F1400●●***	*1190*

(1) Replace the dot ● with "6" for ATV6A0 or "9" for ATV9A0.
(2) The type of circuit breaker is selected for Icu min. 50 kA.
(3) Replace the dots ●● with the control circuit voltage code indicated in the documentation for the contactor.
(4) Rated instantaneous short-circuit current setting Ii: fixed
(5) Rated instantaneous short-circuit current setting Ii: 2

Variable speed drives
Altivar Process Modular
Motor starters
IEC 400 V - 6-pulse Liquid-cooled drives

NS1000N Micrologic 5.0

+

LC1F1250●●

+

ATV9L0C50Q4

IEC standard motor starters

Nominal power			Drive	Circuit breaker			Line contactor	
ND: Normal duty *HD: Heavy duty*			Reference *(1)*	Type *(2)*	Rating at 50 °C	Ii	Reference *(3)*	Rating at 60 °C
	kW	HP			A	A	A	A
Three-phase supply voltage: 400 V 50/60 Hz								
ND	132	–	**ATV●L0C13Q4**	**NSX400N Micrologic 2.3 400**	400	4800 (5)	**LC1F330●●**	360
HD	*110*			***NSX400N Micrologic 2.3 400***	*400*	*4800 (5)*	***LC1F225●●***	*280*
ND	160	–	**ATV●L0C16Q4**	**NSX400N Micrologic 2.3 400**	400	4800 (5)	**LC1F330●●**	360
HD	*132*			***NSX400N Micrologic 2.3 400***	*400*	*4800 (5)*	***LC1F330●●***	*360*
ND	200	–	**ATV●L0C20Q4**	**NSX630N Micrologic 2.3 630**	600	6900 (5)	**LC1F500●●**	580
HD	*160*			***NSX400N Micrologic 2.3 400***	*400*	*4800 (5)*	***LC1F330●●***	*360*
ND	250	–	**ATV●L0C25Q4**	**NSX630N Micrologic 2.3 630**	600	6900 (5)	**LC1F500●●**	580
HD	*200*			***NSX630N Micrologic 2.3 630***	*600*	*6900 (5)*	***LC1F500●●***	*580*
ND	315	–	**ATV●L0C31Q4**	**NS800N Micrologic 5.0**	800	1600 (6)	**LC1F630●●**	850
HD	*250*			***NSX630N Micrologic 2.3 630***	*600*	*6900 (5)*	***LC1F500●●***	*580*
ND	400	–	**ATV●L0C40Q4**	**NS1000N Micrologic 5.0**	1000	2000 (6)	**LC1F1250●●**	1060
HD	*315*			***NS800N Micrologic 5.0***	*800*	*1600 (6)*	***LC1F630●●***	*850*
ND	500	–	**ATV●L0C50Q4**	**NS1250N Micrologic 5.0**	1250	2500 (6)	**LC1F1250●●**	1060
HD	*400*			***NS1000N Micrologic 5.0***	*1000*	*2000 (6)*	***LC1F1250●●***	*1060*
ND	630	–	**ATV●L0C63Q4**	**NS1600N Micrologic 5.0**	1600	3200 (6)	**LC1F1700●●**	1450
HD	*500*			***NS1250N Micrologic 5.0***	*1250*	*2500 (6)*	***LC1F1250●●***	*1060*
ND	800	–	**ATV●L0C80Q4**	**MTZ2 20H1 Micrologic 5.0 X**	2000	4000 (6)	**LC1F2100●●**	1750
HD	*630*			***NS1600N Micrologic 5.0***	*1600*	*3200 (6)*	***LC1F1700●●***	*1450*
ND	900	–	**ATV●L0C90Q4**	**MTZ2 20H1 Micrologic 5.0 X**	2000	4000 (6)	**LC1F2600●●**	2600
HD	*710*			***NS1600N Micrologic 5.0***	*1600*	*3200 (6)*	***LC1F2100●●***	*1750*
ND	1000	–	**ATV●L0M10Q4** (4)	**MTZ2 20H1 Micrologic 5.0 X**	2000	4000 (6)	**LC1F2100●●**	1750
HD	*800*		***ATV●L0M10Q4***	***MTZ2 20H1 Micrologic 5.0 X***	*2000*	*4000 (6)*	***LC1F2100●●***	*1750*
ND	1200	–	**ATV●L0M12Q4** (4)	**MTZ2 25H1 Micrologic 5.0 X**	2500	5000 (6)	**LC1F2600●●**	2600
HD	*1000*			***MTZ2 20H1 Micrologic 5.0 X***	*2000*	*4000 (6)*	***LC1F2100●●***	*1750*
ND	1500	–	**ATV●L0M15Q4** (4)	**MTZ2 32H1 Micrologic 5.0 X**	3200	6400 (6)	**LC1F2600●●**	2600
HD	*1200*			***MTZ2 25H1 Micrologic 5.0 X***	*2500*	*5000 (6)*	***LC1F2600●●***	*2600*
ND	1800	–	**ATV●L0M18Q4** (4)	**MTZ2 32H1 Micrologic 5.0 X**	3200	6400 (6)	**3 x LC1F1700●●**	3262
HD	*1400*			***MTZ2 25H1 Micrologic 5.0 X***	*2500*	*5000 (6)*	***LC1F2600●●***	*2600*

(1) Replace the dot ● with "6" for ATV6A0 or "9" for ATV9A0.
(2) The type of circuit breaker is selected for Icu min. 50 kA.
(3) Replace the dots ●● with the control circuit voltage code indicated in the documentation for the contactor.
(4) A temperature rise test is required to fulfill IEC 61439-1.
(5) Rated instantaneous short-circuit current setting Ii: fixed
(6) Rated instantaneous short-circuit current setting Ii: 2

Variable speed drives
Altivar Process Modular
Motor starters
IEC 440 V - 6-pulse Liquid-cooled drives

NSX400H Micrologic 2.3 400

+

LC1F265●●

+

ATV9L0C13R4

IEC standard motor starters

Nominal power			Drive	Circuit breaker			Line contactor	
ND: Normal duty *HD: Heavy duty*			Reference *(1)*	Type *(2)*	Rating at 50 °C	Ii	Reference *(3)*	Rating at 60 °C
	kW	*HP*			A	A	A	A
Three-phase supply voltage: 440 V 50/60 Hz								
ND	132	–	**ATV●L0C13R4**	**NSX400H Micrologic 2.3 400**	400	4800 (5)	**LC1F265●●**	300
HD	*110*			***NSX250N Micrologic 2.2 250***	*250*	*3000 (5)*	***LC1F225●●***	*280*
ND	160	–	**ATV●L0C16R4**	**NSX400H Micrologic 2.3 400**	400	4800 (5)	**LC1F330●●**	360
HD	*132*			***NSX400H Micrologic 2.3 400***	*400*	*4800 (5)*	***LC1F265●●***	*300*
ND	200	–	**ATV●L0C20R4**	**NSX630H Micrologic 2.3 630**	600	6900 (5)	**LC1F400●●**	430
HD	*160*			***NSX400H Micrologic 2.3 400***	*400*	*4800 (5)*	***LC1F330●●***	*360*
ND	250	–	**ATV●L0C25R4**	**NSX630H Micrologic 2.3 630**	600	6900 (5)	**LC1F500●●**	580
HD	*200*			***NSX630H Micrologic 2.3 630***	*600*	*6900 (5)*	***LC1F400●●***	*430*
ND	315	–	**ATV●L0C31R4**	**NS630bN Micrologic 5.0**	630	1260 (6)	**LC1F630●●**	850
HD	*250*			***NSX630H Micrologic 2.3 630***	*600*	*6900 (5)*	***LC1F500●●***	*580*
ND	400	–	**ATV●L0C40R4**	**NS800N Micrologic 5.0**	800	1600 (6)	**LC1F630●●**	850
HD	*315*			***NS800N Micrologic 5.0***	*800*	*1600 (6)*	***LC1F630●●***	*850*
ND	500	–	**ATV●L0C50R4**	**NS1000N Micrologic 5.0**	1000	2000 (6)	**LC1F1250●●**	1060
HD	*400*			***NS800N Micrologic 5.0***	*800*	*1600 (6)*	***LC1F630●●***	*850*
ND	630	–	**ATV●L0C63R4**	**NS1250N Micrologic 5.0**	1250	2500 (6)	**LC1F1700●●**	1450
HD	*500*			***NS1000N Micrologic 5.0***	*1000*	*2000 (6)*	***LC1F1250●●***	*1060*
ND	800	–	**ATV●L0C80R4**	**NS1600N Micrologic 5.0**	1600	3200 (6)	**LC1F2100●●**	1750
HD	*630*			***NS1250N Micrologic 5.0***	*1250*	*2500 (6)*	***LC1F1700●●***	*1450*
ND	900	–	**ATV●L0C90R4**	**MTZ2 20H1 Micrologic 5.0 X**	2000	4000 (6)	**LC1F2100●●**	1750
HD	*710*			***NS1600N Micrologic 5.0***	*1600*	*3200 (6)*	***LC1F1700●●***	*1450*
ND	1000	–	**ATV●L0M10R4** (4)	**MTZ2 20H1 Micrologic 5.0 X**	2000	4000 (6)	**LC1F2600●●**	2600
HD	*800*		***ATV●L0M10R4***	***NS1600N Micrologic 5.0***	*1600*	*3200 (6)*	***LC1F2100●●***	*1750*
ND	1200	–	**ATV●L0M12R4** (4)	**MTZ2 20H1 Micrologic 5.0 X**	2000	4000 (6)	**LC1F2600●●**	2600
HD	*1000*		***ATV●L0M12R4***	***MTZ2 20H1 Micrologic 5.0 X***	*2000*	*4000 (6)*	***LC1F2600●●***	*2600*
ND	1500	–	**ATV●L0M15R4** (4)	**MTZ2 25H1 Micrologic 5.0 X**	2500	5000 (6)	**LC1F2600●●**	2600
HD	*1200*			***MTZ2 20H1 Micrologic 5.0 X***	*2000*	*4000 (6)*	***LC1F2600●●***	*2600*
ND	1800	–	**ATV●L0M18R4** (4)	**MTZ2 32H1 Micrologic 5.0 X**	3200	6400 (6)	**3 x LC1F1700●●**	3262
HD	*1400*			***MTZ2 25H1 Micrologic 5.0 X***	*2500*	*5000 (6)*	***LC1F2600●●***	*2600*

(1) Replace the dot ● with "6" for ATV6A0 or "9" for ATV9A0.
(2) The type of circuit breaker is selected for Icu min. 50 kA.
(3) Replace the dots ●● with the control circuit voltage code indicated in the documentation for the contactor.
(4) A temperature rise test is required to fulfill IEC 61439-1.
(5) Rated instantaneous short-circuit current setting Ii: fixed
(6) Rated instantaneous short-circuit current setting Ii: 2

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Variable speed drives
Altivar Process Modular
Motor starters
UL 480 V - 6-pulse Liquid-cooled drives

RLF36160U44A

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LC1F1400●●

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ATV6L0C80T4

UL standard motor starters

Nominal power ND: Normal duty HD: Heavy duty			Drive Reference (1)	Circuit breaker Type (2)	Rating at 50 °C	Ii	Line contactor Reference (3)	Rating at 60 °C
	kW	HP			A	A	A	A
Three-phase supply voltage: 480 V 50/60 Hz								
ND	–	200	ATV●L0C13T4	LLL36400U31X	400	800 (4)	LC1F265●●	300
HD		*150*		*JLL36250U31X*	*250*	*500 (4)*	*LC1F185●●*	*240*
ND	–	250	ATV●L0C16T4	LLL36400U31X	400	800 (4)	LC1F330●●	360
HD		*200*		*LLL36400U31X*	*400*	*800 (4)*	*LC1F265●●*	*300*
ND	–	300	ATV●L0C20T4	LLL36600U31X	600	1200 (4)	LC1F400●●	430
HD		*250*		*LLL36400U31X*	*400*	*800 (4)*	*LC1F330●●*	*360*
ND	–	400	ATV●L0C25T4	LLL36600U31X	600	1200 (4)	LC1F500●●	580
HD		*300*		*LLL36600U31X*	*600*	*1200 (4)*	*LC1F400●●*	*430*
ND	–	500	ATV●L0C31T4	PLL34080U31A	736	1600 (4)	LC1F630●●	850
HD		*400*		*LLL36600U31X*	*600*	*1200 (4)*	*LC1F500●●*	*580*
ND	–	600	ATV●L0C40T4	PLL34100U44A	920	2000 (4)	LC1F630●●	850
HD		*500*		*PLL34080U31A*	*736*	*1600 (4)*	*LC1F630●●*	*850*
ND	–	700	ATV●L0C50T4	PLL34120U44A	1104	2400 (4)	LC1F1250●●	1060
HD		*600*		*PLL34100U44A*	*920*	*2000 (4)*	*LC1F630●●*	*850*
ND	–	900	ATV●L0C63T4	RLF36160U44A	1472	3200 (4)	LC1F1400●●	1190
HD		*700*		*PLL34120U44A*	*1104*	*2400 (4)*	*LC1F1250●●*	*1060*
ND	–	1100	ATV●L0C80T4	RLF36160U44A	1472	3200 (4)	LC1F1700●●	1450
HD		*900*		*RLF36160U44A*	*1472*	*3200 (4)*	*LC1F1400●●*	*1190*
ND	–	1300	ATV●L0C90T4	RLF36200U44A	1840	4000 (4)	LC1F2100●●	1750
HD		*1000*		*RLF36160U44A*	*1472*	*3200 (4)*	*LC1F1700●●*	*1450*
ND	–	1400	ATV●L0M10T4	RLF36200U44A	1840	4000 (4)	LC1F2600●●	2600
HD		*1100*		*RLF36160U44A*	*1472*	*3200 (4)*	*LC1F1700●●*	*1450*
ND	–	1700	ATV●L0M12T4	RLF36250U44A	2300	5000 (4)	LC1F2600●●	2600
HD		*1400*		*RLF36200U44A*	*1840*	*4000 (4)*	*LC1F2600●●*	*2600*
ND	–	2200	ATV●L0M15T4	MTZ3 40H Micrologic 6.0 X	3680	8000 (4)	3 x LC1F1700●●	3262
HD		*1700*		*RLF36250U44A*	*2300*	*5000 (4)*	*LC1F2600●●*	*2600*
ND	–	2500	ATV●L0M18T4	MTZ3 40H Micrologic 6.0 X	3680	8000 (4)	3 x LC1F1700●●	3262
HD		*2000*		*RLF36300U44A*	*2760*	*6000 (4)*	*LC1F2600●●*	*2600*

(1) Replace the dot ● with "6" for ATV6A0 or "9" for ATV9A0.
(2) The type of circuit breaker is selected for Icu min. 50 kA.
(3) Replace the dots ●● with the control circuit voltage code indicated in the documentation for the contactor.
(4) Rated instantaneous short-circuit current setting Ii: 2

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Variable speed drives
Altivar Process Modular
Motor starters
IEC 500 V - 6-pulse Liquid-cooled drives

MTZ2 20H1

+

LC1F2600●●

+

ATV6L0M18N6

IEC standard motor starters

Nominal power			Drive	Circuit breaker			Line contactor	
ND: Normal duty *HD: Heavy duty*			Reference *(1)*	Type *(2)*	Rating at 50 °C	Ii	Reference *(3)*	Rating at 60 °C
	kW	*HP*			A	A	A	A
Three-phase supply voltage: 500 V 50/60 Hz								
ND	132	–	**ATV●L0C20N6**	**NSX400H Micrologic 2.3 400**	400	4800 (5)	**LC1F265●●**	300
HD	110			***NSX250N Micrologic 2.2 250***	*250*	*3000 (5)*	***LC1F225●●***	*280*
ND	200	–	**ATV●L0C28N6**	**NSX400H Micrologic 2.3 400**	400	4800 (5)	**LC1F330●●**	360
HD	160			***NSX400H Micrologic 2.3 400***	*400*	*4800 (5)*	***LC1F265●●***	*300*
ND	220	–	**ATV●L0C31N6**	**NSX630H Micrologic 2.3 630**	600	6900 (5)	**LC1F400●●**	430
HD	180			***NSX400H Micrologic 2.3 400***	*400*	*4800 (5)*	***LC1F330●●***	*360*
ND	250	–	**ATV●L0C40N6**	**NSX630H Micrologic 2.3 630**	600	6900 (5)	**LC1F500●●**	580
HD	220			***NSX630H Micrologic 2.3 630***	*600*	*6900 (5)*	***LC1F400●●***	*430*
ND	315	–	**ATV●L0C45N6**	**NS630bN Micrologic 5.0**	630	1260 (5)	**LC1F630●●**	850
HD	250			***NSX630H Micrologic 2.3 630***	*600*	*6900 (5)*	***LC1F500●●***	*580*
ND	400	–	**ATV●L0C56N6**	**NS800N Micrologic 5.0**	800	1600 (6)	**LC1F630●●**	850
HD	315			***NS800N Micrologic 5.0***	*800*	*1600 (6)*	***LC1F630●●***	*850*
ND	500	–	**ATV●L0C71N6**	**NS1000N Micrologic 5.0**	1000	2000 (6)	**LC1F1250●●**	1060
HD	400			***NS800N Micrologic 5.0***	*800*	*1600 (6)*	***LC1F630●●***	*850*
ND	630	–	**ATV●L0C90N6**	**NS1250N Micrologic 5.0**	1250	2500 (6)	**LC1F1700●●**	1450
HD	500			***NS1000N Micrologic 5.0***	*1000*	*2000 (6)*	***LC1F1250●●***	*1060*
ND	800	–	**ATV●L0M12N6**	**NS1600N Micrologic 5.0**	1600	3200 (6)	**LC1F2100●●**	1750
HD	710			***NS1250N Micrologic 5.0***	*1250*	*2500 (6)*	***LC1F1700●●***	*1450*
ND	1000	–	**ATV●L0M14N6**	**MTZ2 20H1 Micrologic 5.0 X**	2000	4000 (6)	**LC1F2100●●**	1750
HD	800			***NS1600N Micrologic 5.0***	*1600*	*3200 (6)*	***LC1F1700●●***	*1450*
ND	1200	–	**ATV●L0M16N6** (4)	**MTZ2 20H1 Micrologic 5.0 X**	2000	4000 (6)	**LC1F2600●●**	2600
HD	900		**ATV●L0M16N6**	***NS1600N Micrologic 5.0***	*1600*	*3200 (6)*	***LC1F2100●●***	*1750*
ND	1300	–	**ATV●L0M18N6** (4)	**MTZ2 20H1 Micrologic 5.0 X**	2000	4000 (6)	**LC1F2600●●**	2600
HD	1000		**ATV●L0M18N6**	***MTZ2 20H1 Micrologic 5.0 X***	*2000*	*4000 (6)*	***LC1F2600●●***	*2600*
ND	1600	–	**ATV●L0M22N6** (4)	**MTZ2 25H1 Micrologic 5.0 X**	2500	5000 (6)	**LC1F2600●●**	2600
HD	1200			***MTZ2 20H1 Micrologic 5.0 X***	*2000*	*4000 (6)*	***LC1F2600●●***	*2600*
ND	1900	–	**ATV●L0M26N6** (4)	**MTZ2 32H1 Micrologic 5.0 X**	3200	6400 (6)	**3 x LC1F1700●●**	3262
HD	1500			***MTZ2 25H1 Micrologic 5.0 X***	*2500*	*5000 (6)*	***LC1F2600●●***	*2600*

(1) Replace the dot ● with "6" for ATV6A0 or "9" for ATV9A0.
(2) The type of circuit breaker is selected for Icu min. 50 kA.
(3) Replace the dots ●● with the control circuit voltage code indicated in the documentation for the contactor.
(4) A temperature rise test is required to fulfill IEC 61439-1.
(5) Rated instantaneous short-circuit current setting Ii: fixed
(6) Rated instantaneous short-circuit current setting Ii: 2

Variable speed drives
Altivar Process Modular
Motor starters
UL 600 V - 6-pulse Liquid-cooled drives

MTZ2 12L

+

LC1F1250●●

+

ATV6L0M12T6

UL standard motor starters

Nominal power ND: Normal duty HD: Heavy duty			Drive	Circuit breaker			Line contactor	
			Reference (1)	Type (2)	Rating at 50 °C	Ii	Reference (3)	Rating at 60 °C
	kW	HP			A	A	A	A
Three-phase supply voltage: 600 V 50/60 Hz								
ND	–	200	ATV●L0C20T6	JRL36250U31X	250	500 (4)	LC1F185●●	240
HD		*150*		***JRL36250U31X***	*250*	*500 (4)*	***LC1D115●●***	*200*
ND	–	300	ATV●L0C28T6	LRL36400U31X	400	800 (4)	LC1F330●●	360
HD		*200*		***JRL36250U31X***	*250*	*500 (4)*	***LC1F185●●***	*240*
ND	–	350	ATV●L0C31T6	LRL36400U31X	400	800 (4)	LC1F400●●	430
HD		*250*		***LRL36400U31X***	*400*	*800 (4)*	***LC1F225●●***	*280*
ND	–	450	ATV●L0C40T6	LRL36600U31X	600	1200 (4)	LC1F500●●	580
HD		*350*		***LRL36400U31X***	*400*	*800 (4)*	***LC1F400●●***	*430*
ND	–	500	ATV●L0C45T6	LRL36600U31X	600	1200 (4)	LC1F500●●	580
HD		*400*		***LRL36600U31X***	*600*	*1200 (4)*	***LC1F400●●***	*430*
ND	–	600	ATV●L0C56T6	MTZ2 08L Micrologic 3.0 X	736	1600 (4)	LC1F630●●	850
HD		*500*		***LRL36600U31X***	*600*	*1200 (4)*	***LC1F500●●***	*580*
ND	–	700	ATV●L0C71T6	MTZ2 12L Micrologic 6.0 X	1104	2400 (4)	LC1F630●●	850
HD		*600*		***MTZ2 08L Micrologic 3.0 X***	*736*	*1600 (4)*	***LC1F630●●***	*850*
ND	–	900	ATV●L0C90T6	MTZ2 12L Micrologic 6.0 X	1104	2400 (4)	LC1F1250	1060
HD		*700*		***MTZ2 12L Micrologic 6.0 X***	*1104*	*2400 (4)*	***LC1F630●●***	*850*
ND	–	1200	ATV●L0M12T6	MTZ2 16L Micrologic 6.0 X	1472	3200 (4)	LC1F1700●●	1450
HD		*1000*		***MTZ2 12L Micrologic 6.0 X***	*1104*	*2400 (4)*	***LC1F1250●●***	*1060*
ND	–	1400	ATV●L0M14T6	MTZ2 16L Micrologic 6.0 X	1472	3200 (4)	LC1F1700●●	1450
HD		*1100*		***MTZ2 16L Micrologic 6.0 X***	*1472*	*3200 (4)*	***LC1F1400●●***	*1190*
ND	–	1600	ATV●L0M16T6	MTZ2 20L Micrologic 6.0 X	1840	4000 (4)	LC1F2100●●	1750
HD		*1300*		***MTZ2 16L Micrologic 6.0 X***	*1472*	*3200 (4)*	***LC1F1700●●***	*1450*
ND	–	1800	ATV●L0M18T6	MTZ2 25L Micrologic 6.0 X	2300	5000 (4)	LC1F2600●●	2600
HD		*1400*		***MTZ2 16L Micrologic 6.0 X***	*1472*	*3200 (4)*	***LC1F2100●●***	*1750*
ND	–	2200	ATV●L0M22T6	MTZ2 25L Micrologic 6.0 X	2300	5000 (4)	LC1F2600●●	2600
HD		*1700*		***MTZ2 20L Micrologic 6.0 X***	*1840*	*4000 (4)*	***LC1F2600●●***	*2600*
ND	–	2600	ATV●L0M26T6	MTZ2 30L Micrologic 6.0 X	2760	6000 (4)	3 x LC1F1700●●	3262
HD		*2100*		***MTZ2 25L Micrologic 6.0 X***	*2300*	*5000 (4)*	***LC1F2600●●***	*2600*

(1) Replace the dot ● with "6" for ATV6A0 or "9" for ATV9A0.
(2) The type of circuit breaker is selected for Icu min. 50 kA.
(3) Replace the dots ●● with the control circuit voltage code indicated in the documentation for the contactor.
(4) Rated instantaneous short-circuit current setting Ii: 2

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Variable speed drives
Altivar Process Modular
Motor starters
IEC 690 V - 6-pulse Liquid-cooled drives

MTZ2 32H1

+

LC1F2600●●

+

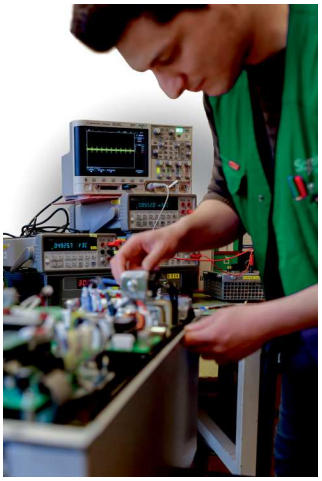
ATV6L0M26Q6

IEC standard motor starters

Nominal power			Drive	Circuit breaker			Line contactor	
ND: Normal duty *HD: Heavy duty*			Reference *(1)*	Type *(2)*	Rating at 50 °C	Ii	Reference *(3)*	Rating at 60 °C
	kW	HP			A	A	A	A
Three-phase supply voltage: 690 V 50/60 Hz								
ND	200	–	**ATV●L0C20Q6**	**NSX400HB1 Micrologic 2.3 400**	400	4800 (5)	**LC1F225●●**	280
HD	*160*			***NSX250HB1 Micrologic 2.2 250***	*250*	*3000 (5)*	***LC1F185●●***	*240*
ND	280	–	**ATV●L0C28Q6**	**NSX400HB1 Micrologic 2.3 400**	400	4800 (5)	**LC1F400●●**	430
HD	*220*			***NSX400HB1 Micrologic 2.3 400***	*400*	*4800 (5)*	***LC1F265●●***	*300*
ND	315	–	**ATV●L0C31Q6**	**NSX630HB1 Micrologic 2.3 630**	600	6900 (5)	**LC1F400●●**	430
HD	*250*			***NSX400HB1 Micrologic 2.3 400***	*400*	*4800 (5)*	***LC1F330●●***	*360*
ND	400	–	**ATV●L0C40Q6**	**NSX630HB1 Micrologic 2.3 630**	600	6900 (5)	**LC1F500●●**	580
HD	*315*			***NSX630HB1 Micrologic 2.3 630***	*600*	*6900 (5)*	***LC1F400●●***	*430*
ND	450	–	**ATV●L0C45Q6**	**NSX630HB1 Micrologic 2.3 630**	600	6900 (5)	**LC1F500●●**	580
HD	*355*			***NSX630HB1 Micrologic 2.3 630***	*600*	*6900 (5)*	***LC1F500●●***	*580*
ND	560	–	**ATV●L0C56Q6**	**NS800LB Micrologic 5.0**	800	1600 (6)	**LC1F630●●**	850
HD	*450*			***NSX630HB1 Micrologic 2.3 630***	*600*	*6900 (5)*	***LC1F500●●***	*580*
ND	710	–	**ATV●L0C71Q6**	**MTZ2 10H1 Micrologic 5.0 X**	1000	2000 (6)	**LC1F1250●●**	1060
HD	*560*			***NS800LB Micrologic 5.0***	*800*	*1600 (6)*	***LC1F630●●***	*850*
ND	900	–	**ATV●L0C90Q6**	**MTZ2 12H1 Micrologic 5.0 X**	1250	2500 (6)	**LC1F1400●●**	1190
HD	*710*			***MTZ2 10H1 Micrologic 5.0 X***	*1000*	*2000 (6)*	***LC1F1250●●***	*1060*
ND	1200	–	**ATV●L0M12Q6**	**MTZ2 16H1 Micrologic 5.0 X**	1600	3200 (6)	**LC1F2100●●**	1750
HD	*1000*			***MTZ2 12H1 Micrologic 5.0 X***	*1250*	*2500 (6)*	***LC1F1700●●***	*1450*
ND	1400	–	**ATV●L0M14Q6**	**MTZ2 20H1 Micrologic 5.0 X**	2000	4000 (6)	**LC1F2100●●**	1750
HD	*1100*			***MTZ2 16H1 Micrologic 5.0 X***	*1600*	*3200 (6)*	***LC1F1700●●***	*1450*
ND	1600	–	**ATV●L0M16Q6**	**MTZ2 20H1 Micrologic 5.0 X**	2000	4000 (6)	**LC1F2600●●**	2600
HD	*1300*			***MTZ2 16H1 Micrologic 5.0 X***	*1600*	*3200 (6)*	***LC1F2100●●***	*1750*
ND	1800	–	**ATV●L0M18Q6** (4)	**MTZ2 20H1 Micrologic 5.0 X**	2000	4000 (6)	**LC1F2100●●**	1750
HD	*1400*		**ATV●L0M18Q6**	***MTZ2 20H1 Micrologic 5.0 X***	*2000*	*4000 (6)*	***LC1F2100●●***	*1750*
ND	2200	–	**ATV●L0M22Q6** (4)	**MTZ2 25H1 Micrologic 5.0 X**	2500	5000 (6)	**LC1F2600●●**	2600
HD	*1700*			***MTZ2 20H1 Micrologic 5.0 X***	*2000*	*4000 (6)*	***LC1F2100●●***	*1750*
ND	2600	–	**ATV●L0M26Q6** (4)	**MTZ2 32H1 Micrologic 5.0 X**	3200	6400 (6)	**LC1F2600●●**	2600
HD	*2100*			***MTZ2 25H1 Micrologic 5.0 X***	*2500*	*5000 (6)*	***LC1F2600●●***	*2600*

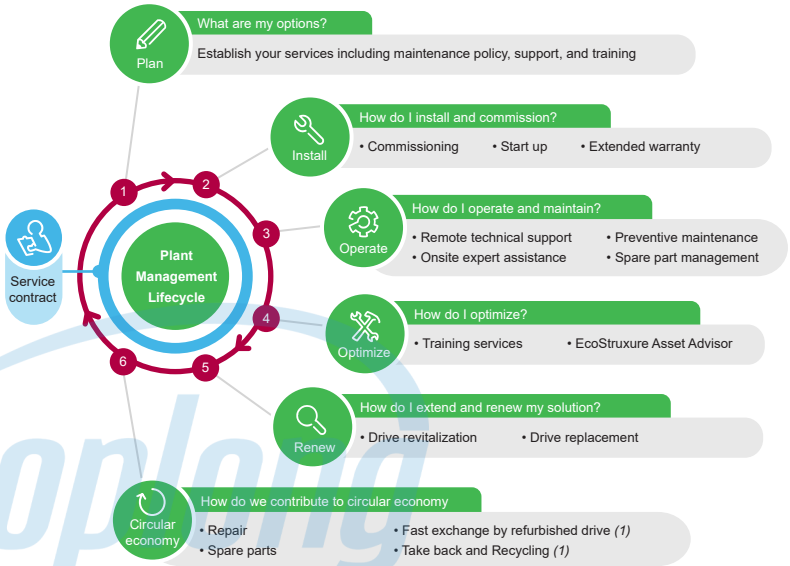
(1) Replace the dot ● with "6" for ATV6A0 or "9" for ATV9A0.
(2) The type of circuit breaker is selected for Icu min. 50 kA.
(3) Replace the dots ●● with the control circuit voltage code indicated in the documentation for the contactor.
(4) A temperature rise test is required to fulfill IEC 61439-1.
(5) Rated instantaneous short-circuit current setting Ii: fixed
(6) Rated instantaneous short-circuit current setting Ii: 2

Variable speed drives
Altivar Process
A whole world of services for your drives by Schneider Electric



Drives support and services offer by Schneider Electric

Variable speed drives are an important part of your operation, with downtime having a significant impact on your business. Protecting that investment through comprehensive drive services means that you can continue to deliver optimally throughout the lifecycle of your drive. Our range of services is designed to help you get more out of your drives, your operation, and to improve your environmental impact.



Install

- **Extended Warranty** service helps you control your maintenance costs. Schneider Electric will provide a replacement drive or repair the drive on site during a period of 1 or 3 years more than the standard warranty, in all conditions covered by the extended warranty.
- **Start-up** service is the first essential step in maintenance and optimal operational performance of the drive. Our comprehensive review checks up to 100 parameters and is especially designed for drives in simple applications.
- **Commissioning** service helps to ensure a reliable start for operations with more complex applications and drive systems. The unique requirements of your process need to be carefully considered to ensure efficient operations.

Operate

- **Preventive Maintenance** service performs predetermined maintenance actions according to a drive product-specific schedule. The work is carried out by certified technical experts following Schneider Electric instructions. This service minimizes unplanned downtime and extends your equipment lifetime.
- **Remote Technical Support** brings you expert product assistance over phone, email, chat, or Web for any technical questions relating to your drives, including configuration, diagnostics, and maintenance. Our global support team is multi-lingual with support available up to R&D level experts if needed.
- **On-Site Expert Assistance** service offers you highly skilled field service experts to troubleshoot and resolve drive equipment-related matters at your site, as a back-up source of expertise for your personnel.
- **Spare Part Management** service identifies and manages your critical spare parts either on your site or offsite. This service ensures that you have access to the spares you need without you having to invest in capital to maintain the stock.

(1) Services available in countries that have the right structure and capabilities.

Variable speed drives
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Drives support and services offer by Schneider Electric (continued)

Optimize

- **Training** service offers eLearning, classroom, and onsite training provision to enhance the technical installation, commissioning, and maintenance competencies of your personnel. Added competence translates into further process efficiency and reliability, as well as employee satisfaction.

- **EcoStruxure Asset Advisor** service enables you to move from reactive to predictive maintenance and access actionable insight provided by the advisor. The service predicts drive- and motor-related actions through connected devices and advanced algorithms monitored by Schneider Electric's experts.

Renew

- **Drive Revitalization** is an excellent choice if you prefer to use your aging drives longer and want to extend their service life with affordable and comprehensive inspection and replacement of all critical parts.

- **Drive Replacement** involves modernizing equipment by replacing the previous aged or obsolete drive with a new one matched to the purpose. The service can be extended with engineering in case the device and process requires more advanced engineering.

Circular economy with drives

- **Spare Parts** are available from our local, regional, and global stocks. Original equipment parts from Schneider Electric are reliable and easily available. They will help to keep your drive in operation for longer.

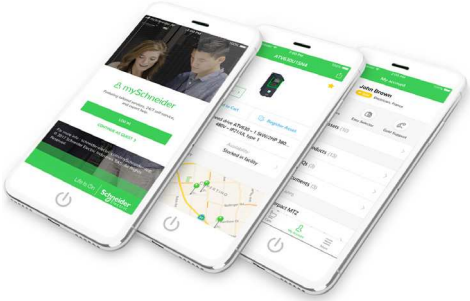
- **Repair** allows you to extend the life of your drive. The affected drive can be replaced, or repaired on site or at our repair centers, depending on the type of drive in question.

- **Fast exchange by refurbished drive** *(1)* gives a second life to inoperative drives. In this case, we offer an immediate exchange with a replacement refurbished drive and take back the product, repair it, and keep it ready for the next exchange..

- **Take-back and recycling** *(1)* is the last step to improve your environmental impact. Unrepairable products are dismantled, and raw materials are collected and given a second life. Up to 85% of the product components can be recycled.

Service contracts secure recovery, availability and outcome

Service contracts manage the safety and performance of your assets through well-defined maintenance plans tailored to your operational needs. The predefined service contract – Advantage Service Plan – and fully customizable "à la carte" service contract are built from services in the "Operate" and "Optimize" phases and service levels defining availability, response, and lead times matching your particular needs. You will enjoy priority access to Schneider Electric support when you need it, as well as having an expert partner to plan the long-term evolution of your drives.



mySchneider app

With the mySchneider app you have easy 24/7 access to product information and expert support. All registered users have access to additional features, such as real-time notifications, order tracking, product pricing, and availability. The mySchneider app is available for download from the IOS and Android app store.

Schneider Electric – helping you succeed

Schneider Electric, the leader in digital transformation of energy management and automation, has operations in more than 100 countries. With this global footprint we have certified drives field service representatives, regional expert and advanced level support up to product R&D to provide you the right support across the lifecycle of your drives. Furthermore, we offer an extensive network of local and global repair centers and a logistics chain that underpins our ability to respond to your needs.

To order services or find out more, please contact your local Schneider Electric service center.

(1) Services available in countries that have the right structure and capabilities.

Variable speed drives
Altivar Process Modular
Product reference index

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