

EN 61095, IEC 1095

iCT contactors are available in two versions:

- Contactors without manually-operated
- Contactors with manually-operated.

The breadth of the iCT contactor range satisfies most application cases.
iCT contactors can be combined with auxiliary control, protection and indication functions.

Contactors

iCT 2P



manual control

iCT 4P



- iCT contactors can be used to remote control applications in alternative networks:
 - lighting, heating, ventilation, roller blinds, sanitary hot water
 - mechanical ventilation systems, etc
 - load-shedding of non-priority circuits

PB106120-34



Indication iACTs

- This auxiliary allows indication or control of the "open" or "closed" position of the contactor power contacts

PB106124-34



Interference filtering iACTp

- This auxiliary is an interference suppressor which limits overvoltages on the control circuit

PB106123-34



Dual control iACTc

- Used to control a contactor in impulse-type mode or to combine latched or impulse-type control orders

PB106125-34



Time delay iATEt

- This auxiliary is used to time delay for iCT and iTL. According to cabling, there are 5 possible time delay types:
 - 1 for iTL
 - 4 for iCT

Function type A:

late closing

Delay energizing of contactor

Function type B:

time delay

- Energize the contactor by closing a push button
- The time delay starts as soon as the control contacts are closed

Function type C:

late opening

- Energize the contactor by closing a push button
- The time delay starts when the control contacts are opened

Function type H:

fixed time operation

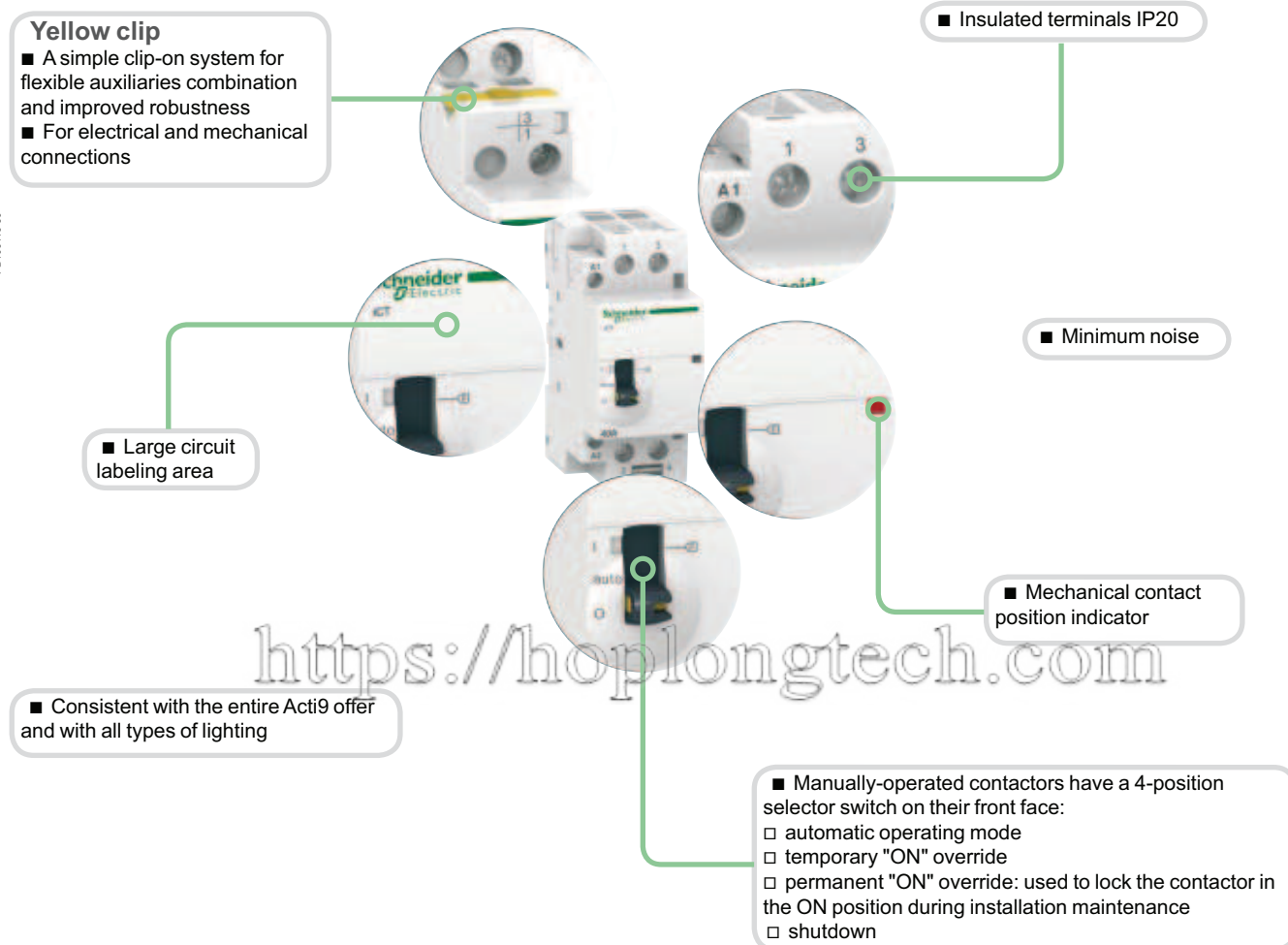
- Operate the contactor for a pre-determined time from the moment of energizing

Contactors

Contactors auxiliaries

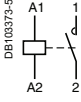
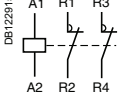
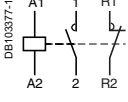
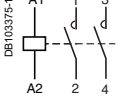
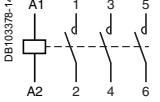
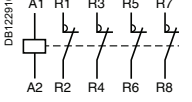
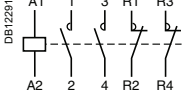
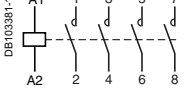
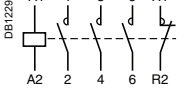
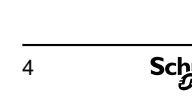
		Choice of 50 Hz contactors					
Type		Contactor					
Rating	A	16	20	25	40	63	100
Auxiliaries							
iACTs indication auxiliary		Yes	Yes	Yes			
iACTp protection auxiliary	By yellow clips	No	No	Yes			
iACTc, iATEt control auxiliary	By yellow clips	No	No	Yes			

PB106115-39

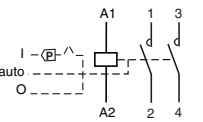
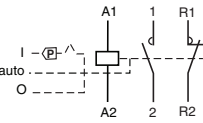
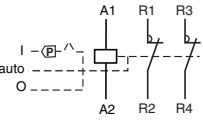
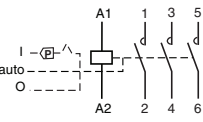
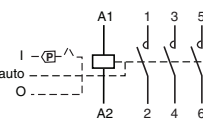
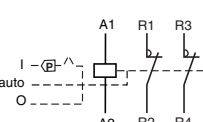


Choice of 60 Hz contactors				
Manually-operated contactors				Manually-operated contactors
16	25	40	63	40
Contactors that can be equipped with auxiliaries				Contactors that can be equipped with auxiliaries
Yes				Yes
Yes	Yes			Yes
No	Yes			Yes

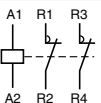
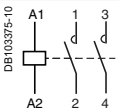
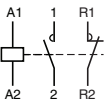
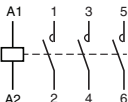
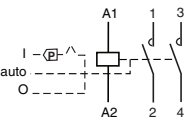
Catalogue numbers

iCT contactors - 50 Hz						
Type						Width in 9 mm modules
1P	Rating (In)		Control voltage (V AC) (50 Hz)	Contact		
	16 A	6 A	12	1NO	A9C22011	2
			24	1NO	A9C22111	2
			48	1NO	A9C22211	2
			220	1NO	A9C22511	2
			230...240	1NO	A9C22711	2
	25 A	8.5 A	220	1NO	A9C20531	2
			230...240	1NO	A9C20731	2
2P						
	16 A	6 A	12	2NO	A9C22012	2
			24	2NO	A9C22112	2
			48	2NO	A9C22212	2
			220	2NO	A9C22512	2
			230...240	2NO	A9C22712	2
			12	1NO+1NC	A9C22015	2
			24	1NO+1NC	A9C22115	2
			220	1NO+1NC	A9C22515	2
			230...240	1NO+1NC	A9C22715	2
	20 A	6 A	230...240	2NO	A9C22722	2
	25 A	8.5 A	24	2NO	A9C20132	2
			48	2NO	A9C20232	2
			220	2NO	A9C20532	2
			230...240	2NO	A9C20732	2
			220	2NC	A9C20536	2
			230...240	2NC	A9C20736	2
	40 A	15 A	220...240	2NO	A9C20842	4
	63 A	20 A	24	2NO	A9C20162	4
			220...240	2NO	A9C20862	4
	100 A	-	220...240	2NO	A9C20882	6
3P						
	16 A	6 A	220...240	3NO	A9C22813	4
	25 A	8.5 A	220...240	3NO	A9C20833	4
	40 A	15 A	220...240	3NO	A9C20843	6
	63 A	20 A	220...240	3NO	A9C20863	6
4P						
	16 A	6 A	24	4NO	A9C22114	4
			220...240	4NO	A9C22814	4
			220...240	2NO+2NC	A9C22818	4
	20 A	6 A	220...240	4NO	A9C22824	4
	25 A	8.5 A	24	4NO	A9C20134	4
			220...240	4NO	A9C20834	4
			24	4NC	A9C20137	4
			220...240	4NC	A9C20837	4
	40 A	15 A	220...240	2NO+2NC	A9C20838	4
			220...240	4NO	A9C20844	6
			220...240	4NC	A9C20847	6
	63 A	20 A	24	4NO	A9C20164	6
			220...240	4NO	A9C20864	6
			24	4NC	A9C20167	6
			220...240	4NC	A9C20867	6
	100 A	-	220...240	2NO+2NC	A9C20868	6
			220...240	3NO+1NC	A9C20869	6
			220...240	4NO	A9C20884	12

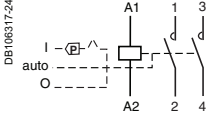
Catalogue numbers

iCT manual control contactor 50 Hz							
Type						Width in 9 mm modules	
2P	Rating (In)		Control voltage (V AC) (50 Hz)	Contact			
	AC7a	AC7b					
	16 A	6 A	220	2NO	A9C23512	2	
			230...240	2NO	A9C23712	2	
			220	1NO+1NC	A9C23515	2	
			230...240	1NO+1NC	A9C23715	2	
	25 A	8.5 A	24	2NO	A9C21132	2	
			24	2NC	A9C21136	2	
			220	2NO	A9C21532	2	
			230...240	2NO	A9C21732	2	
	40 A	15 A	24	2NO	A9C21142	2	
			220...240	2NO	A9C21842	4	
	63 A	20 A	24	2NO	A9C21162	4	
			220...240	2NO	A9C21862	4	
							
							
3P							
	25 A	8.5 A	220...240	3NO	A9C21833	4	
	40 A	15 A	220...240	3NO	A9C21843	6	
	25 A	8.5 A	24	4NO	A9C21134	4	
			24	4NC	A9C21137	4	
			220...240	4NO	A9C21834	4	
	40 A	15 A	24	4NO	A9C21144	6	
			24	4NC	A9C21147	6	
			220...240	4NO	A9C21844	6	
	63 A	20 A	24	4NO	A9C21164	6	
			220...240	4NO	A9C21864	6	
							

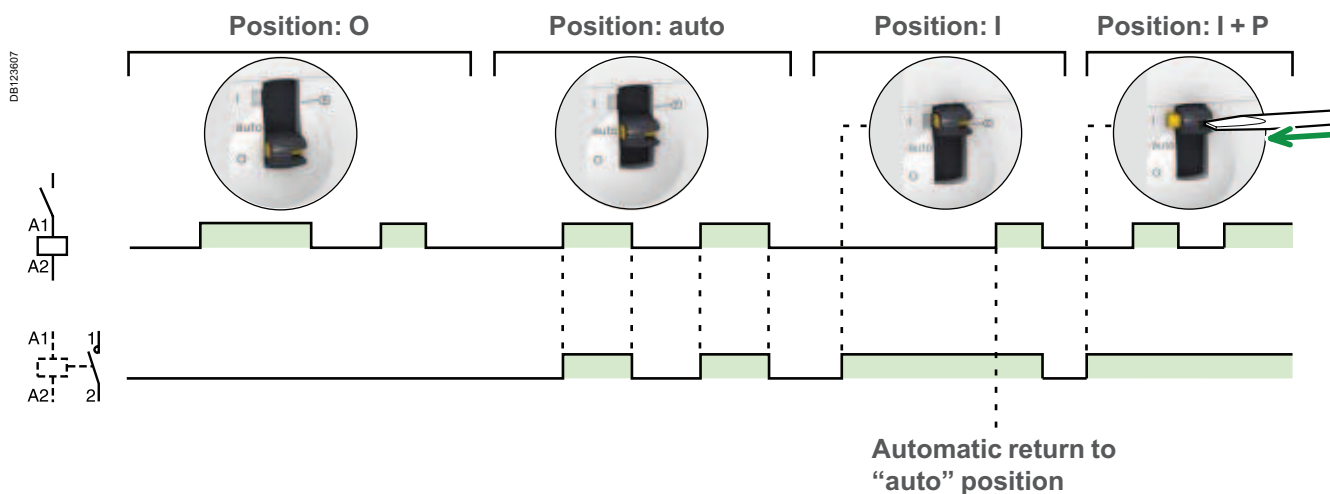
Catalogue numbers

iCT contactors - 60 Hz						
Type						Width in 9 mm modules
1P	Rating (In)		Control voltage (V AC) (60 Hz)	Contact		
	AC7a	AC7b				
	25 A	8.5 A	127	1NO	A9C20431	2
			220 ...240	1NO	A9C20631	2
2P						
	16 A	6 A	127	1NO+1NC	A9C22415	2
			220...240	1NO+1NC	A9C22615	2
	25 A	8.5 A	127	2NO	A9C20432	2
			220...240	2NO	A9C20632	2
			127	2NC	A9C20436	2
			220...240	2NC	A9C20636	2
	40 A	15 A	127	2NO	A9C20442	4
			220...240	2NO	A9C20642	4
3P						
	25 A	8.5 A	127	3NO	A9C20433	4
			220...240	3NO	A9C20633	4
	40 A	15 A	127	3NO	A9C20443	6
			220...240	3NO	A9C20643	6
	63 A	20 A	127	3NO	A9C20463	6
			220...240	3NO	A9C20663	6
https://hioplontech.com						
iCT manual control contactor 60 Hz						
Type						Width in 9 mm modules
2P	Rating (In)		Control voltage (V AC) (60 Hz)	Contact		
	AC7a	AC7b				
	40 A	15 A	127	2NO	A9C21442	4
			220...240	2NO	A9C21642	4

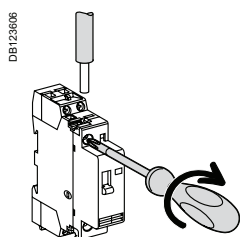
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iCT manual control contactor 60 Hz						
Type						Width in 9 mm modules
2P	Rating (In)		Control voltage (V AC) (60 Hz)	Contact		
	AC7a	AC7b				
	40 A	15 A	127	2NO	A9C21442	4
			220...240	2NO	A9C21642	4

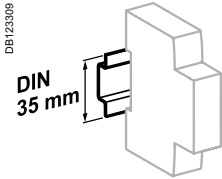
Operation (Manual control contactor)



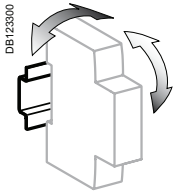
Connection



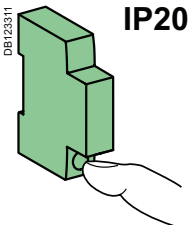
Type	Rating	Length tripping	Circuit	Tightening torque	Copper cables	
					Rigid	Flexible or ferrule
iCT	PZ1: 4 mm	16 - 100 A 9 mm	Control	0.8 N.m	 1.5 to 2.5 mm: 2 x 1.5 mm ²	 1.5 to 2.5 mm: 2 x 2.5 mm ²
			Power			
	PZ2: 6 mm	40 A - 63 A 14 mm 100 A		3.5 N.m	6 to 25 mm ²	6 to 16 mm ²
					6 to 35 mm ²	6 to 35 mm ²
iACTs, iACTp, iACTc, iATEt	PZ1: 4 mm	-	-	0.8 N.m	1.5 to 2.5 mm: 2 x 1.5 mm ²	1.5 to 2.5 mm: 2 x 2.5 mm ²



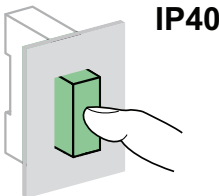
Clip on DIN rail 35 mm.



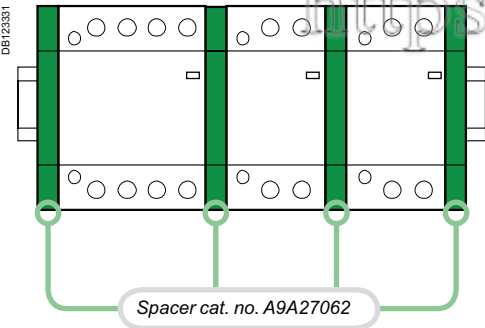
± 30° vertical.



IP20



IP40



Technical data

Power circuit		
Voltage rating (Ue)	1P, 2P	250 V AC
	3P, 4P	400 V AC
Frequency		50 Hz or 60 Hz
Type of load		See module CA908026
Endurance (O-C)		
Electrical		100,000 cycles
Maximum number of switching operation a day		100
Additional characteristics		
Insulation voltage (Ui)		500 V AC
Pollution degree		2
Rated impulse withstand voltage (Uimp)		2.5 kV (4 kV for 12/24/48 V AC)
Degree of protection (IEC 60529)	Device only	IP20
	Device in modular enclosure	IP40
Operating temperature		-5°C to +60°C ⁽¹⁾
Storage temperature		-40°C to +70°C
Tropicalization (IEC 60068-1)		Treatment 2 (relative humidity 95 % at 55°C)
ELSV compliance (Extra Low Safety Voltage) for 12/24/48 V AC versions		
The product control conforms to the SELV (safety extra low voltage) requirements		

(1) In the case of contactor mounting in a enclosure for which the interior temperature is in range between 50°C and 60°C, it is necessary to use a spacer, cat. no. A9A27062, between each contactor

<https://hoplongtech.com>

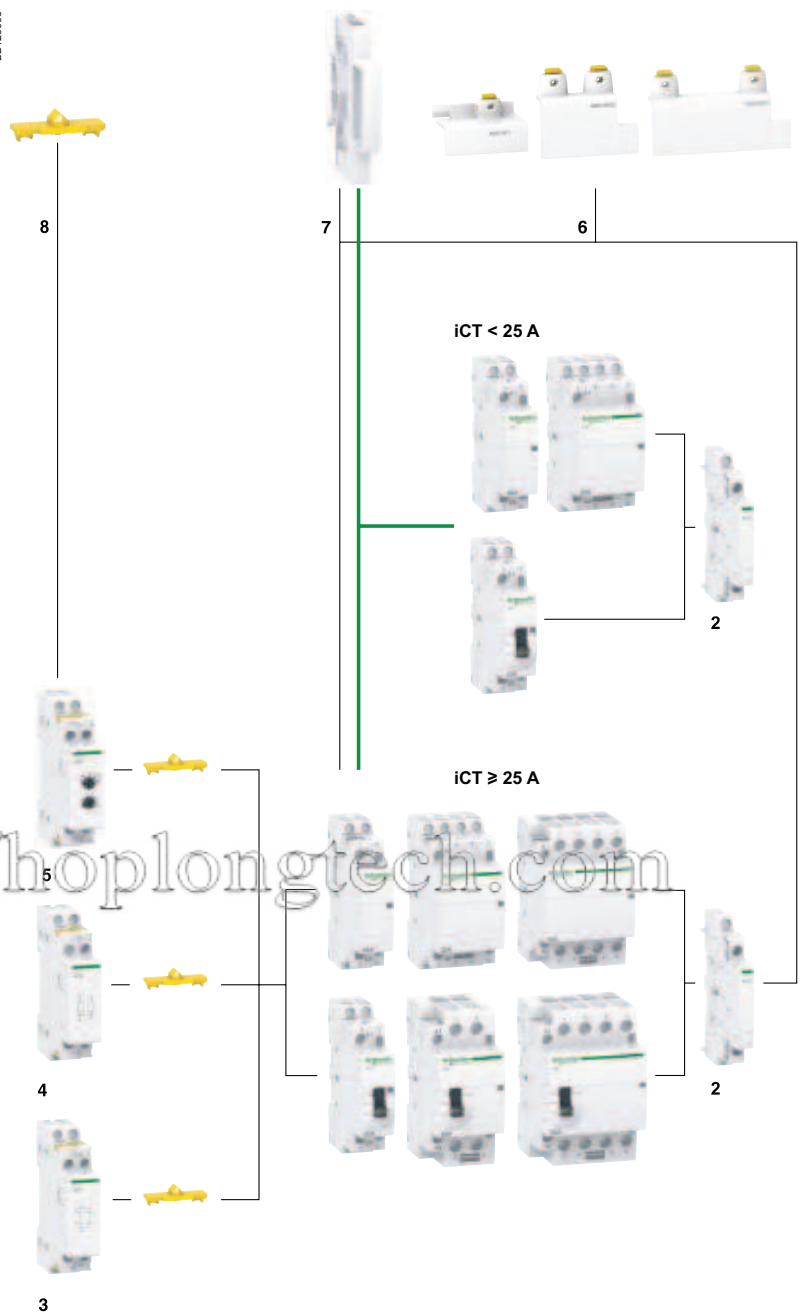
Mounting accessories

6	Sealable screw shields for top and bottom	3P, 4P 25 A	A9A15921
		2P 40/63 A	A9A15922
		3P, 4P 40/63 A	A9A15923
7	9 mm spacer		A9A27062
8	Yellow clips		A9C15415

DB123608

Auxiliaries

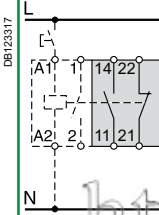
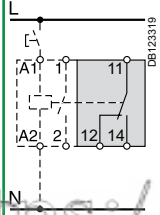
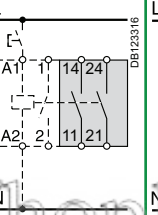
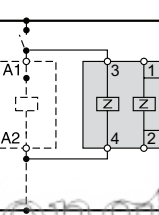
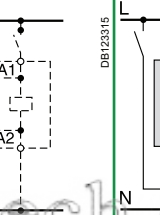
Indication			
2	iACTs	1NO + 1NC	A9C15914
		1CO	A9C15915
		2NO	A9C15916
Double control inputs			
3	iACTc	230 V AC	A9C18308
		24 V AC	A9C18309
Coil suppression blocs			
4	iACTp	12...48 V AC	A9C15919
		48...127 V AC	A9C15918
		220...240 V AC	A9C15920
Time delay			
5	iATet	24...240 V AC	A9C15419



<https://hoplongtech.com>

iCT contactors

Electrical auxiliaries for iCT

		Indication	Protection	Control					
Auxiliaries		iACTs	iACTp	iACTc					
Type		Indication	Interference filtering	Impulse/latched control					
		With Open/Close auxiliary contact	2 protection circuits						
		PB106120-34 	PB106124-34 	PB106123-34 					
Function		■ This auxiliary allows indication of the "open" or "closed" position of the contactor power contacts	■ This auxiliary is an interference suppressor which limits overvoltages on the control circuit	■ This auxiliary, combined with contactors, enables them to be controlled by 2 order types: ☐ impulse order for local control (input T) ☐ latched order for centralised control (input X) ☐ the last order received takes priority					
Wiring diagrams		DB123317 	DB123318 	DB123319 					
		DB123316 	DB123315 						
Mounting		■ Mounted to the right of iCT	■ Mounted to the left of iCT by yellow clips⁽¹⁾ ■ By wires	■ Mounted to the left of iCT by yellow clips⁽¹⁾					
Use		—	■ The iACTp has 2 separate and identical circuits, allowing it to be combined with 2 different one on the iCT the other by wires	■ Mains power outages: ☐ < 1 s: keeps its initial status ☐ ≥ 5 s: reset ☐ put back into operation by manual operation on input X or T. ■ Minimum impulse duration: 250 ms					
Catalogue numbers		A9C15914	A9C15915	A9C15916	A9C15918	A9C15919	A9C15920	A9C18308	A9C18309
Technical specifications									
Control voltage (Ue)	V AC	24...240			48 ...127	12 ...48	220 ...240	230...240	24...48
	V DC	24...130			—			—	
Operating frequency	Hz	50/60			50/60			50/60	
Width in 9 mm modules		1			2			2	
Auxiliary contact (breaking capacity)		■ Minimum: 10 mA at 24 V DC/AC - cos φ = 1 ■ Maximum: ☐ 5 A at 240 V AC - cos φ = 1 ☐ 1 A at 130 V DC			—			—	
Number of contacts		1NO + 1NC	1CO	2NO	—			—	
Operating temperature	°C	-5°C to +50°C			—			—	
Storage temperature	°C	-40°C to +70°C			—			—	
Consumption		—			—			OFF load: 3 VA Inrush ⁽²⁾: 2 VA Holding ⁽²⁾: 0.2 VA	

(1) Electrical and mechanical link.

(2) Maximum consumption of all contactors controlled.

iCT contactors

Electrical auxiliaries for iCT (cont.)

Control (cont.)

iATEt

Time delay

PB106125-34



■ This auxiliary is used to time delay for iCT and iTL. According to cabling, there are 5 possible time delay types:

- 1 for iTL
- 4 for iCT.

Function type A: late closing

■ Delay energizing of contactor.

Function type B: time delay

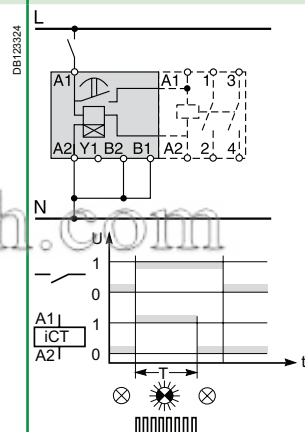
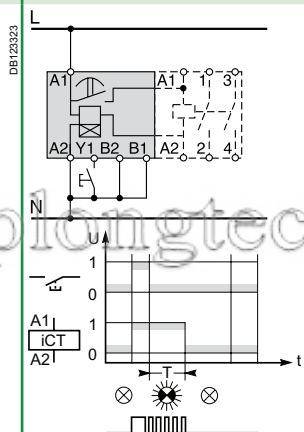
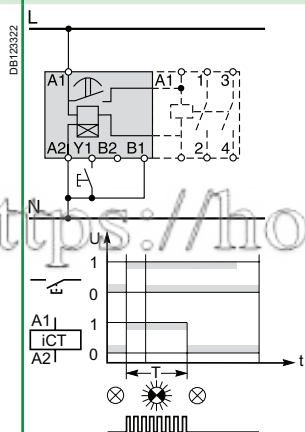
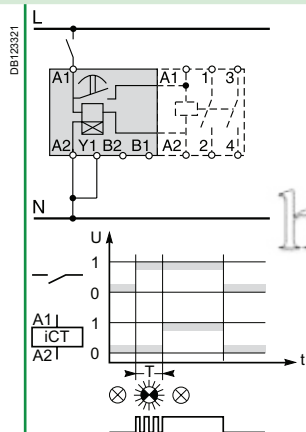
■ Energize the contactor by closing a push button.
■ The time delay starts as soon as the control contacts are closed.

Function type C: late opening

■ Energize the contactor by closing a push button.
■ The time delay starts when the control contacts are opened.

Function type H: fixed time operation

■ Operate the contactor for a pre-determined time from the moment of energizing.



■ Mounted to the left of iCT by yellow clips⁽¹⁾

A9C15419

24...240

24...110

50/60

2

—

—

-20°C to +50°C

-40°C to +80°C

Off-load: 5 VA
Inrush⁽²⁾: 3 A
Holding⁽²⁾: 0.2 A

Security				
Accessories	Sealable screw shields			Yellow clips
				
				
Function	■ Designed to cover terminals to avoid contact with device screws. ■ Allow sealing			■ Ensure the mechanical and/or electrical link between contactors and their auxiliaries.
	■ For iCT: 3P, 4P - 25 A	■ For iCT: 2P - 40/63 A	■ For iCT: 3P, 4P - 40/63 A	■ Required to reduce temperature rise of modular devices installed side by side. ■ Recommended to separate electronic devices (thermostat, programmable clock, etc.) from electromechanical devices (relays, contactors).
Use	■ Bag of 10 upstream/10 downstream			■ Bag of 10
Catalogue numbers	A9A15921	A9A15922	A9A15923	A9C15415
Technical specifications				
Width in 9 mm modules	4	4	6	–
Number of poles	3P, 4P	2P	3P	–

<https://hoplongtech.com>

iCT contactors

Technical advice for iCT

Consumption

iCT contactors - 50 Hz									
Type									
1P	Rating (In)		Control voltage (V AC) (50 Hz)	Consumption		Max. power			
	AC7a	AC7b		Holding	Inrush				
	16 A	5 A	12	3.8 VA	15 VA	1.3 W	A9C22011		
			24	3.8 VA	15 VA	1.3 W	A9C22111		
			48	3.8 VA	15 VA	1.3 W	A9C22211		
			220	3.8 VA	15 VA	1.3 W	A9C22511		
			230...240	2.7 VA	9.2 VA	1.2 W	A9C22711		
	25 A	8.5 A	220	3.8 VA	15 VA	1.3 W	A9C20531		
			230...240	2.7 VA	9.2 VA	1.2 W	A9C20731		
2P									
	16 A	5 A	12	3.8 VA	15 VA	1.3 W	A9C22012		
			24	3.8 VA	15 VA	1.3 W	A9C22112		
			48	3.8 VA	15 VA	1.3 W	A9C22212		
			220	3.8 VA	15 VA	1.3 W	A9C22512		
			230...240	2.7 VA	9.2 VA	1.2 W	A9C22712		
			12	3.8 VA	15 VA	1.3 W	A9C22015		
			24	3.8 VA	15 VA	1.3 W	A9C22115		
			220	3.8 VA	15 VA	1.3 W	A9C22515		
			230...240	2.7 VA	9.2 VA	1.2 W	A9C22715		
			20 A	6.4 A	230...240	2.7 VA	9.2 VA	1.2 W	A9C22722
	25 A	8.5 A	24	3.8 VA	15 VA	1.3 W	A9C20132		
			48	3.8 VA	15 VA	1.3 W	A9C20232		
			220	3.8 VA	15 VA	1.3 W	A9C20532		
			230...240	2.7 VA	9.2 VA	1.2 W	A9C20732		
			220	3.8 VA	15 VA	1.3 W	A9C20536		
			230...240	2.7 VA	9.2 VA	1.2 W	A9C20736		
			40 A	15 A	220...240	4.6 VA	34 VA	1.6 W	A9C20842
			63 A	20 A	24	4.6 VA	34 VA	1.6 W	A9C20162
			220...240	4.6 VA	34 VA	1.6 W	A9C20862		
	100 A	-	220...240	6.5 VA	53 VA	2.1 W	A9C20882		
3P									
16 A	5 A	220...240	4.6 VA	34 VA	1.6 W	A9C22813			
25 A	8.5 A	220...240	4.6 VA	34 VA	1.6 W	A9C20833			
40 A	15 A	220...240	6.5 VA	53 VA	2.1 W	A9C20843			
63 A	20 A	220...240	6.5 VA	53 VA	2.1 W	A9C20863			
4P									
	16 A	5 A	24	4.6 VA	34 VA	1.6 W	A9C22114		
			220...240	4.6 VA	34 VA	1.6 W	A9C22814		
			220...240	4.6 VA	34 VA	1.6 W	A9C22818		
	20 A	6.4 A	220 ...240	4.6 VA	34 VA	1.6 W	A9C22824		
	25 A	8.5 A	24	4.6 VA	34 VA	1.6 W	A9C20134		
			220...240	4.6 VA	34 VA	1.6 W	A9C20834		
			24	4.6 VA	34 VA	1.6 W	A9C20137		
			220...240	4.6 VA	34 VA	1.6 W	A9C20837		
			220...240	4.6 VA	34 VA	1.6 W	A9C20838		
			40 A	15 A	220...240	6.5 VA	53 VA	2.1 W	A9C20844
					220...240	6.5 VA	53 VA	2.1 W	A9C20847
	63 A	20 A	24	6.5 VA	53 VA	2.1 W	A9C20164		
			220...240	6.5 VA	53 VA	2.1 W	A9C20864		
			24	6.5 VA	53 VA	2.1 W	A9C20167		
			220...240	6.5 VA	53 VA	2.1 W	A9C20867		
			220...240	6.5 VA	53 VA	2.1 W	A9C20868		
			220...240	6.5 VA	53 VA	2.1 W	A9C20869		
	100 A	-	220...240	13 VA	106 VA	4.2 W	A9C20884		

iCT contactors

Technical advice for iCT (cont.)

Consumption (cont.)

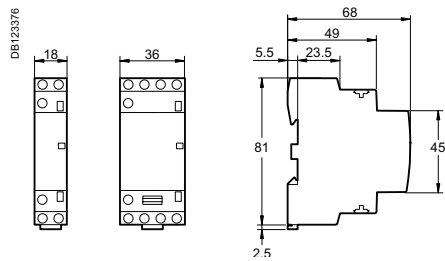
iCT manual control contactor 50 Hz

Type							
2P	Rating (In)		Control voltage (V AC) (50 Hz)	Consumption		Max. power	
	AC7a	AC7b		Holding	Inrush		
	16 A	5 A	220	2.7 VA	9.2 VA	1.2 W	A9C23512
			230...240	2.7 VA	9.2 VA	1.2 W	A9C23712
			220	3.8 VA	15 VA	1.3 W	A9C23515
			230...240	2.7 VA	9.2 VA	1.2 W	A9C23715
	25 A	8.5 A	24	3.8 VA	15 VA	1.3 W	A9C21132
			24	3.8 VA	15 VA	1.3 W	A9C21136
			220	2.7 VA	9.2 VA	1.2 W	A9C21532
			230...240	2.7 VA	9.2 VA	1.2 W	A9C21732
	40 A	15 A	24	4.6 VA	34 VA	1.6 W	A9C21142
			220...240	4.6 VA	34 VA	1.6 W	A9C21842
	63 A	20 A	24	4.6 VA	34 VA	1.6 W	A9C21162
			220...240	4.6 VA	34 VA	1.6 W	A9C21862
3P							
	25 A	8.5 A	220...240	4.6 VA	34 VA	1.6 W	A9C21833
	40 A	15 A	220...240	6.5 VA	53 VA	2.1 W	A9C21843
4P							
	25 A	8.5 A	24	4.6 VA	34 VA	1.6 W	A9C21134
			24	4.6 VA	34 VA	1.6 W	A9C21137
			220...240	4.6 VA	34 VA	1.6 W	A9C21834
	40 A	15 A	24	6.5 VA	53 VA	2.1 W	A9C21144
			24	6.5 VA	53 VA	2.1 W	A9C21147
			220...240	6.5 VA	53 VA	2.1 W	A9C21844
	63 A	20 A	24	6.5 VA	53 VA	2.1 W	A9C21164
			220...240	6.5 VA	53 VA	2.1 W	A9C21864

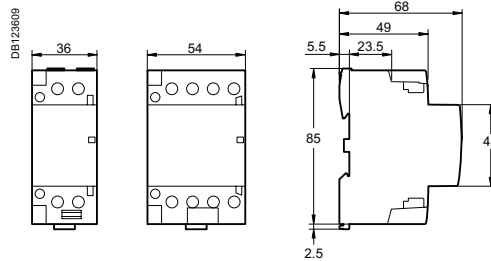
iCT contactors - 60 Hz

Type								
1P	Rating (In)		Control voltage (V AC) (60 Hz)	Consumption		Max. power		
	AC7a	AC7b		Holding	Inrush			
	25 A	8.5 A	127	3.8 VA	15 VA	1.3 W	A9C20431	
			220 ...240	2.7 VA	9.2 VA	0.9 W	A9C20631	
2P								
	16 A	5 A	127	3.8 VA	15 VA	1.3 W	A9C22415	
			220...240	2.7 VA	9.2 VA	0.9 W	A9C22615	
	25 A	8.5 A	127	3.8 VA	15 VA	1.3 W	A9C20432	
			220...240	2.7 VA	9.2 VA	0.9 W	A9C20632	
			127	3.8 VA	15 VA	1.3 W	A9C20436	
			220...240	2.7 VA	9.2 VA	0.9 W	A9C20636	
	40 A	15 A	127	4.6 VA	34 VA	1.6 W	A9C20442	
			220...240	4.6 VA	34 VA	1.6 W	A9C20642	
	3P							
		25 A	8.5 A	127	4.6 VA	34 VA	1.6 W	A9C20433
220...240				4.6 VA	34 VA	1.6 W	A9C20633	
40 A		15 A	127	6.5 VA	53 VA	2.1 W	A9C20443	
			220...240	6.5 VA	53 VA	2.1 W	A9C20643	
63 A		20 A	127	6.5 VA	53 VA	2.1 W	A9C20463	
			220...240	6.5 VA	53 VA	2.1 W	A9C20663	

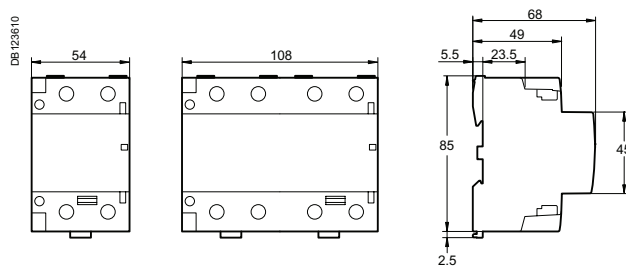
Dimensions (mm)



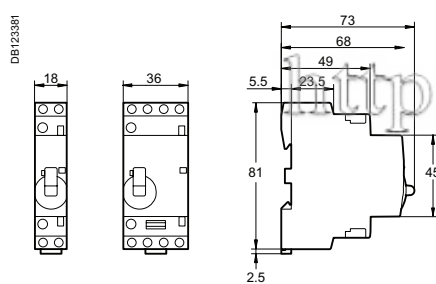
iCT 16/25 A



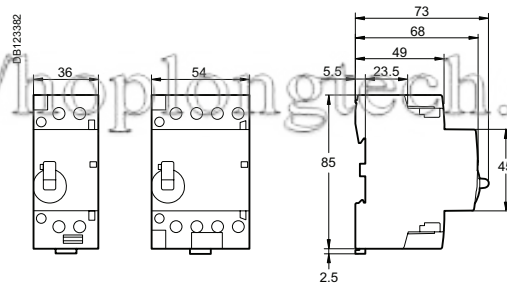
iCT 40/63 A



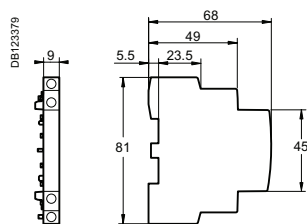
iCT 100 A



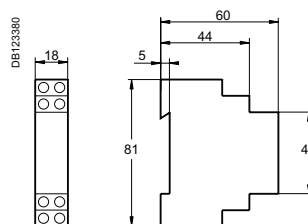
iCT manual control contactor 16/25 A



iCT manual control contactor 40/63 A



iACTs



*iATEt
iACTp
iACTc*