

Supplemental
NQ Digest 5

March

08

NQ

Lighting and Distribution
Panelboard

NQ Panelboards – Ready to Install (RTI)

20" Wide Enclosures—240 Vac, 48 Vdc

NQ Ready to Install Main Lug Interiors

Main Circuit Breaker Interior, Order MLO Interior + MCB Mounting Kit + MCB

Mains Rating	Max no. of Single Pole QO/QOB Circuit Breakers	Interior Only (order branch circuit breakers separately) Catalogue No.▲	Type 1 Enclosure		Type 3R, 5, 12 Enclosure*		TVSS Surge Rating	
			Box 20"W x 5.75"D■	Front◆	Box 20"W x 6.5"D	Height (in.)		
			Catalogue No.	Catalogue No.	Catalogue No.	Catalogue No.		
NQ RTI 20" wide Single Phase 3-Wire								
100	18	NQ18L1	MH26	NC26(S) or (F)	MH26WP	26	-	
	18	NQ18L1C	MH26	NC26(S) or (F)	MH26WP	26	-	
	30	NQ30L1	MH32	NC32(S) or (F)	MH32WP	32	-	
	30	NQ30LIC	MH32	NC32(S) or (F)	MH32WP	32	-	
225	30	NQ30L2	MH32	NC32(S) or (F)	MH32WP	32	-	
	30	NQ30L2C	MH32	NC32(S) or (F)	MH32WP	32	-	
	42	NQ42L2	MH38	NC38(S) or (F)	MH38WP	38	-	
	42	NQ42L2C	MH38	NC38(S) or (F)	MH38WP	38	-	
	72	NQ72L2	MH44	NC44(S) or (F)	MH44WP	44	-	
	72	NQ72L2C	MH44	NC44(S) or (F)	MH44WP	44	-	
	84	NQ84L2	MH50	NC50(S) or (F)	MH50WP	50	-	
	84	NQ84L2C	MH50	NC50(S) or (F)	MH50WP	50	-	
400	30	NQ30L4	MH50	NC50V(S) or (F)	MH50WP	50	-	
	30	NQ30L4C	MH50	NC50V(S) or (F)	MH50WP	50	-	
	42	NQ42L4	MH50	NC50V(S) or (F)	MH50WP	50	-	
	42	NQ42L4C	MH50	NC50V(S) or (F)	MH50WP	50	-	
	84	NQ84L4C	MH68	NC68V(S) or (F)	MH68WP	68	-	
600◆	30	NQ30L6C	MH50	NC50V(S) or (F)	MH62WP	62	-	
	42	NQ42L6C	MH50	NC50V(S) or (F)	MH62WP	62	-	
	84	NQ84L6C	MH68	NC68V(S) or (F)	MH80WP	80	-	
NQ RTI 20" wide Three Phase 4-Wire								
100	18	NQ418L1	MH26	NC26(S) or (F)	MH26WP	26	-	
	18	NQ418L1C	MH26	NC26(S) or (F)	MH26WP	26	-	
	30	NQ430L1	MH32	NC32(S) or (F)	MH32WP	32	-	
	30	NQ430LIC	MH32	NC32(S) or (F)	MH32WP	32	-	
225	30	NQ430L2	MH32	NC32(S) or (F)	MH32WP	32	-	
	30	NQ430L2C	MH32	NC32(S) or (F)	MH32WP	32	-	
	30	NQ430L2TVS212	MH50	NC50(S) or (F)	MH50WP	50	120	
	30	NQ430L2TVS216	MH50	NC50(S) or (F)	MH50WP	50	160	
	30	NQ430L2TVS212C	MH50	NC50(S) or (F)	MH50WP	50	120	
	30	NQ430L2TVS216C	MH50	NC50(S) or (F)	MH50WP	50	160	
	42	NQ442L2	MH38	NC38(S) or (F)	MH38WP	38	-	
	42	NQ442L2C	MH38	NC38(S) or (F)	MH38WP	38	-	
	42	NQ442L2TVS212	MH56	NC56(S) or (F)	MH56WP	56	120	
	42	NQ442L2TVS216	MH56	NC56(S) or (F)	MH56WP	56	160	
	42	NQ442L2TVS212C	MH56	NC56(S) or (F)	MH56WP	56	120	
	42	NQ442L2TVS216C	MH56	NC56(S) or (F)	MH56WP	56	160	
	72	NQ472L2	MH44	NC44(S) or (F)	MH44WP	44	-	
	72	NQ472L2C	MH44	NC44(S) or (F)	MH44WP	44	-	
	72	NQ472L2TVS212	MH62	NC62(S) or (F)	N/A	62	120	
	72	NQ472L2TVS212C	MH62	NC62(S) or (F)	N/A	62	120	
	84	NQ484L2	MH50	NC50(S) or (F)	MH50WP	50	-	
	84	NQ484L2C	MH50	NC50(S) or (F)	MH50WP	50	-	
	400	30	NQ430L4	MH50	NC50V(S) or (F)	MH50WP	50	-
		30	NQ430L4C	MH50	NC50V(S) or (F)	MH50WP	50	-
42		NQ442L4	MH50	NC50V(S) or (F)	MH50WP	50	-	
42		NQ442L4C	MH50	NC50V(S) or (F)	MH50WP	50	-	
42		NQ442L4TVS212	MH68	NC68V(S) or (F)	MH68WP	68	120	
42		NQ442L4TVS216	MH68	NC68V(S) or (F)	MH68WP	68	160	
42		NQ442L4TVS212C	MH68	NC68V(S) or (F)	MH68WP	68	120	
42		NQ442L4TVS216C	MH68	NC68V(S) or (F)	MH68WP	68	160	
72		NQ472L4	MH62	NC62V(S) or (F)	MH62WP	62	-	
72		NQ472L4C	MH62	NC62V(S) or (F)	MH62WP	62	-	
72		NQ472L4TVS212	MH80	NC80V(S) or (F)	N/A	80	120	
72		NQ472L4TVS212C	MH80	NC80V(S) or (F)	N/A	80	120	
84		NQ484L4C	MH68	NC68V(S) or (F)	MH68WP	68	-	
600◆		30	NQ430L6C	MH50	NC50V(S) or (F)	MH62WP	62	-
	42	NQ442L6C	MH50	NC50V(S) or (F)	MH62WP	62	-	
	84	NQ484L6C	MH68	NC68V(S) or (F)	MH80WP	80	-	



NQ 225A 42CCT MLO

▲ "C" suffix indicates copper bussing.
 ■ Embossed mounting holes add a .25 inch standoff to back of MH box.
 ◆ Copper bus standard on 600 A interiors.
 ★ Enclosure includes trim kit.
 * Equipment ground bars must be ordered separately.
 * Box height may change with subfeed lugs, feed-thru lugs and subfeed breakers.
 * NCxxV(S) or (F) is a vented trim used on 400 & 600 amp NQ.
 * NCxx(S) or (F) is a non vented trim used on 100A & 225A NQ.

NQ Panelboards – Ready to Install (RTI)

20" Wide Enclosures — 240 Vac, 48 Vdc

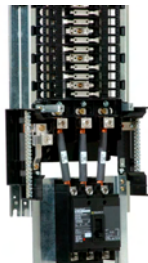
NQ Ready to Install Main Circuit Breaker Box Selection Table

Main Circuit Breaker Interior, Order MLO Interior + MCB Mounting Kit + MCB

Mains Rating	Max no. of Single Pole QO/QOB Circuit Breakers	Interior Only (order branch circuit breakers separately) Catalogue No.	Main Vertical Circuit Breaker Information			Type 1 Enclosure		Type 3R, 5, 12 Enclosure	TVSS Surge Rating	
			Kit	Breaker Frames	Box 20"W x 5.75"D	Front	Box 20"W x 6.5"D			
					Catalogue No.	Catalogue No.	Catalogue No.			
NQ RTI 20" wide Single Phase 3-Wire										
100	18	NQ18L1	NQMB2HJ	HD/HG/HJ/HL 100A max	MH38	NC38(S) or (F)	MH38WP	-		
	18	NQ18L1C			MH38	NC38(S) or (F)	MH38WP	-		
	30	NQ30L1			MH44	NC44(S) or (F)	MH44WP	-		
	30	NQ30LIC			MH44	NC44(S) or (F)	MH44WP	-		
225	30	NQ30L2	NQMB2HJ	HD/HG/HJ/HL or JD/JG/JJ/JL	MH44	NC44(S) or (F)	MH44WP	-		
	30	NQ30L2C			MH44	NC44(S) or (F)	MH44WP	-		
	42	NQ42L2			MH50	NC50(S) or (F)	MH50WP	-		
	42	NQ42L2C			MH50	NC50(S) or (F)	MH50WP	-		
	72	NQ72L2	NQMB2Q	QB/QD/QJ/QL	MH56	NC56(S) or (F)	MH56WP	-		
	72	NQ72L2C			MH56	NC56(S) or (F)	MH56WP	-		
	84	NQ84L2			NQMB2KI	KI	MH62	NC62(S) or (F)	MH62WP	-
	84	NQ84L2C					MH62	NC62(S) or (F)	MH62WP	-
400	30	NQ30L4	NQMB4LA	LA/LH (LC is F/A only)	MH62	NC62V(S) or (F)	MH62WP	-		
	30	NQ30L4C			MH62	NC62V(S) or (F)	MH62WP	-		
	42	NQ42L4			MH62	NC62V(S) or (F)	MH62WP	-		
	42	NQ42L4C			MH62	NC62V(S) or (F)	MH62WP	-		
600	84	NQ84L4C			MH80	NC80V(S) or (F)	MH80WP	-		
600 A MCB available factory assembled										
NQ RTI 20" wide Three Phase 4-Wire										
100	18	NQ418L1	NQMB2HJ	HD/HG/HJ/HL 100A max	MH38	NC38(S) or (F)	MH38WP	-		
	18	NQ418L1C			MH38	NC38(S) or (F)	MH38WP	-		
	30	NQ430L1			MH44	NC44(S) or (F)	MH44WP	-		
	30	NQ430LIC			MH44	NC44(S) or (F)	MH44WP	-		
225	30	NQ430L2	NQMB2HJ	HD/HG/HJ/HL or JD/JG/JJ/JL	MH44	NC44(S) or (F)	MH44WP	-		
	30	NQ430L2C			MH44	NC44(S) or (F)	MH44WP	-		
	30	NQ430L2TVS212			MH62	NC62(S) or (F)	MH62WP	120		
	30	NQ430L2TVS216			MH62	NC62(S) or (F)	MH62WP	160		
	30	NQ430L2TVS212C			MH62	NC62(S) or (F)	MH62WP	120		
	30	NQ430L2TVS216C			MH62	NC62(S) or (F)	MH62WP	160		
	42	NQ442L2			NQMB2Q	QB/QD/QJ/QL	MH50	NC50(S) or (F)	MH50WP	-
	42	NQ442L2C					MH50	NC50(S) or (F)	MH50WP	-
	42	NQ442L2TVS212	MH68	NC68(S) or (F)			MH68WP	120		
	42	NQ442L2TVS216	MH68	NC68(S) or (F)			MH68WP	160		
	42	NQ442L2TVS212C	MH68	NC68(S) or (F)			MH68WP	120		
	42	NQ442L2TVS216C	MH68	NC68(S) or (F)			MH68WP	160		
	72	NQ472L2	NQMB2KI	KI			MH56	NC56(S) or (F)	MH56WP	-
	72	NQ472L2C					MH56	NC56(S) or (F)	MH56WP	-
	72	NQ472L2TVS212			MH74	NC74(S) or (F)	N/A	120		
	72	NQ472L2TVS212C			MH74	NC74(S) or (F)	N/A	120		
400	84	NQ484L2	NQMB4LA	LA/LH (LC is F/A only)	MH62	NC62(S) or (F)	MH56WP	-		
	84	NQ484L2C			MH62	NC62(S) or (F)	MH56WP	-		
	30	NQ430L4			MH62	NC62V(S) or (F)	MH62WP	-		
	30	NQ430L4C			MH62	NC62V(S) or (F)	MH62WP	-		
	42	NQ442L4			MH62	NC62V(S) or (F)	MH62WP	-		
	42	NQ442L4C			MH62	NC62V(S) or (F)	MH62WP	-		
	42	NQ442L4TVS212			MH80	NC80V(S) or (F)	MH80WP	120		
	42	NQ442L4TVS216			MH80	NC80V(S) or (F)	MH80WP	160		
600	42	NQ442L4TVS216C			MH80	NC80V(S) or (F)	MH80WP	120		
	72	NQ472L4			MH74	NC74V(S) or (F)	MH74WP	-		
	72	NQ472L4C			MH74	NC74V(S) or (F)	MH74WP	-		
	84	NQ484L4C			MH80	NC80V(S) or (F)	MH80WP	-		
600 A MCB available factory assembled										

DE5 PANELBOARDS

NQ 225A MB Q Frame w/cable connections



NQ 225A 42CCT MLO w/TVSS modules



NQ Panelboards – Ready to Install (RTI)

20" Wide Enclosures — 240 Vac, 48 Vdc

NQ

RTI Optional Main Lug Kits for NQ Main Lug Panelboards

Amps	Aluminum				Copper			
	Aluminum Mechanical		Aluminum Compression		Copper Mechanical		Copper Compression	
	Cat. #	Lug Wire Range for wire bending space	Cat. #	Lug Wire Range for wire bending space	Cat. #	Lug Wire Range for wire bending space	Cat. #	Lug Wire Range for wire bending space
100	NQALM1	(1) #6 - 350 MCM	NQALV1	(1) #4-300 kcmil	NQCUM1	(1) #6 - 350 kcmil	NQCUV1	(1) #6 - 350 kcmil
225	NQALM2	(1) #6 - 350 MCM	NQALV2	(1) 250-350 kcmil	NQCUM2	(1) #6 - 350 kcmil	NQCUV2	(1) #6 - 350 kcmil
400	NQALM4	(1) 1/0-750 MCM or (2) 1/0-350 MCM	NQALV4	(2) 2/0-500 kcmil	NQCUM4	(1) 1/0-750 kcmil or (2) 1/0-350 kcmil	NQCUV4	(1) 400-750 kcmil
600	NQALM6	(2) 1/0-750 MCM	NQALV6	(2) 2/0-500kcmil	NQCUM6	(2) 1/0-750 kcmil	NQCUV6	(2) 250-500 kcmil
600 ^a	NQALM6A	(3) 1/0-250 MCM		---	---	---	---	---

a. Optional lug for 600A. Can also be used for 400A.

NQ RTI Accessories Main Breaker Kits and 200% Neutrals

Main Breaker Kits

Mains Ampacity	Main Breaker Kit (less circuit breaker)		
	Catalogue No.	Fits Breaker Frames	Add Box Ht
100	NQMB2HJ	H 100 A max	12"
225	NQMB2HJ	H 150 A max and J 225A max	
	NQMB2Q	Q 225 A max	
	NQMB2KI	KI 225 A max	
400	NQMB4LA	LAL/LHL (LC F/A only.)	
600	Factory Assembled Only		

200% Neutrals

Mains Ampacity	200% Neutral Kit	Add Box Ht	Copper 100% Neutral Kit	
	Catalogue No.		Catalogue No.	Add Box Ht
100	NQNL1	no adder	100A NQN1CU	no adder
225	NQNL2 or NQNL2ACCY **		225A NQN2CU	
			400A NQN6CU	
400	NQNL4 *		600A NQN6CU *	
600	Factory Assembled Only			

* Not to be used with SFL, FTL or SFB. These combinations - Factory Assembled Only.
** For 225A panel with SFL, FTL or SFB, use NQNL2ACCY.

Sub Feed Lugs, Feed-Through Lugs and Sub Feed Breakers

Mains Ampacity	Sub Feed Lugs (N/A in MCB Interiors)	Feed-thru Lugs	Sub Feed Circuit breaker kits (breaker not included)	
			Single SFB	Two SFBs
	Catalogue No.	Catalogue No.	Catalogue No.	Catalogue No.
100	NQSFL1	100A Not Available, Use 225A Interior	---	---
225	NQSFL2	NQFTL2L (a)	NQSFB2Q or NQSFB2HJ	---
		NQFTL2H (b)		---
400	NQSFL4	NQFTL4L (a)	NQSFB4Q or NQSFB4HJ	---
		NQFTL4H (b)		---
600	Factory Assembled Only			

(a) final character L indicates the kit is used for low circuit count interiors 30-42 cct
(b) final character H indicates the kit is used for high circuit count interiors 54, 72 and 84 cct

Refer to Section DE3 for Main Breakers Ready to Install

NQ RTI Service Entrance Main Breaker and Main Lug Panelboards

Mains Rating	1 phase or 3 phase	max # of single pole QO/QOB circuit breakers	Factory installed Main Breaker	Catalogue Number	Type 1 Enclosure Width	Surface or Flush-Mount Trim
100A	3 phase	42	QBL32100	NQSE342100S	14"	S
				NQSE342100F	14"	F
200A	3 phase	42	QBL32200	NQSE342200S	14"	S
				NQSE342200F	14"	F
225A	3 phase	42	n/a	NQML342225S*	14"	S
400A	1 phase	42	LAL26400	NQSE142400F	20"	F
				NQSE342400S	20"	S
	3 phase	72	LAL26400	NQSE172400F	20"	F
				NQSE372400S	20"	S

Note: no field-installable kits available for above listed RTI SE MB or ML Panelboards

* 225A Main lug device

NQ

Box Sizing Requirements

Basic NQ MLO Panelboard Enclosure Sizes and Height Adders for Accessories

Mains Rating	Available Branch Circuits	Required Enclosure Height (in.)	Interior Only		Type 1 Enclosure		3R/5/12	Space Factor (height adder for feature)				
			Single Phase	Three Phase	Box	Trim	Complete Enclosure	Vertical MCB	AI SFL	TFL	SFB	200% Neutral
100	18	26	NQ18L1	NQ18L1	MH26	NC26()	MH26WP	12"	0"	0"	Not Available	0"
	30	32	NQ30L1	NQ30L1	MH32	NC32()	MH32WP					
225	30	32	NQ30L2	NQ30L2	MH32	NC32()	MH32WP	12"	6" (Cu=0")	6"	18"	0"
	42	38	NQ42L2	NQ42L2	MH38	NC38()	MH38WP					
	54	38	NQ54L2	NQ54L2	MH38	NC38()	MH38WP					
	72	44	NQ72L2	NQ72L2	MH44	NC44()	MH44WP					
400	84	50	NQ84L2	NQ84L2	MH50	NC50()	MH50WP	12"	0	6"	24"	0"
	30	50	NQ30L4	NQ30L4	MH50	NC50V()	MH50WP					
	42	50	NQ42L4	NQ42L4	MH50	NC50V()	MH50WP					
	54	56	NQ54L4	NQ54L4	MH56	NC56V()	MH56WP					
600	72	62	N/A	NQ472L4	MH62	NC62V()	MH62WP	18" (LC/LI)	Not Available	6" on each end - total 12"	24"	Not Available
	84	68	NQ84L4C	NQ84L4C	MH68	NC68V()	MH68WP					
	30	50	NQ30L6C	NQ30L6C	MH50	NC50V()	MH62WP					
	42	50	NQ42L6C	NQ42L6C	MH50	NC50V()	MH62WP					
600	54	56	NQ54L6C	NQ54L6C	MH56	NC56V()	MH68WP	18" (LC/LI)	Not Available	6" on each end - total 12"	24"	Not Available
	72	62	N/A	NQ472L6C	MH62	NC62V()	MH74WP					
	84	68	NQ84L6C	NQ84L6C	MH68	NC68V()	MH80WP					
	30	50	NQ30L6C	NQ30L6C	MH50	NC50V()	MH62WP					

Example:

NQ 225A 30 circuit MCB Panelboard with TFL in Type 1 surface enclosure:

Basic interior: 32"

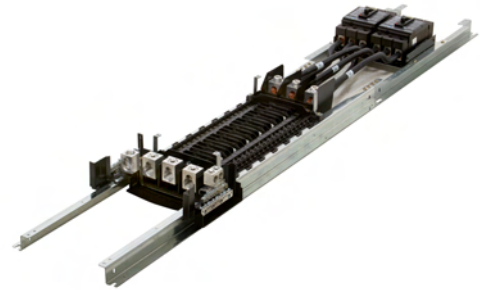
MCB adder: 12"

TFL adder: 6"

Required height: 50" Box MH50, trim NC50S

NQ RTI Accessories

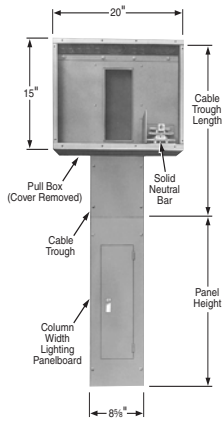
Description	Application	Catalogue No.
Equipment Ground Bars	Aluminum	PK27GTA
	Copper	PK27GTACU
	Insulator Kit	PKGTAB
PK23GTA + #1 to #4/0 Al/Cu lug	Ground Bar with Lug	PK23GTAL
Filler Plate (15 per package)	Plastic Filler	NQFP15
Directory Cards	NQ Panelboard	80031 158 01
Plastic stick-on directory pouch	NQ Panelboard	80031 159 01
Circuit Numbering Strips	Odd-Even 1-102	NQ102OE
	Sequential 1-102	NQ102S
	Odd-Even 103-204	NQ204OE
	Sequential 103-204	NQ204S
Key - NSR-251	NEMA 1Locks	LP9618
Key - DSR-251	NEMA 3R Locks	DSR-251
Rail and Deadfront extensions	6" Extension	NQ6RDE
	12" Extension	NQ12RDE
	18" Extension	NQ18RDE
	24" Extension	NQ24RDE
Handle Padlock Attachment	Branches	See Circuit Breaker Section
Mounting Nut (4 per pkg.)	Interiors	23220 00003
Elevating Kit	Flush only	NQLN
Trim mounting screws / hardware		
250A Max. Interiors (10 per pkg.)		NFTMS1
400A/600A Interiors (8 per pkg.)		LP9502
Branch mount bolt-on sub-feed	2-pole	QOB2125SL
	3-pole	QOB3125SL
Drip Hood for std encl.	20" Wide	MHT2DH20



**NQ 400A 42CCT MLO
w/2 subfeed CB's**

Column-Width NQ/NF Panelboards – Ready To Install (RTI)

240 Vac and 600Y/347 Vac



NQ Column-Width—240 Vac Bolt-On

NQ Application Data

Application: For use on ac only. Meet Federal Specification W-P-115c, Type 1, Class 1.

Service: 1Ø3W, 3Ø3W, 3Ø4W, 3 Grd. “B” Ø —240 Vac max.

Mains: Type NQOB—Bolt-on main lugs: 100 A

225 A main circuit breaker: 100 A—QOU, 225 A—QB. See pages DE3-11 for main circuit breaker interrupting rating.

Branches: Bolt-on QOB, 60 A maximum. QOB 10-60 A 1-, 2- and 3-pole. See page DE5-3 for branch circuit breaker terminal data.

Cabinet: Front—Screw cover. Box—galvanized steel with removable endwalls.

Gutters: 100 A—4" Min. mains end, 3" Min. opposite mains; 225 A—10" Min. mains end, 5" Min. opposite mains.

NQ Column-Width—240 Vac Bolt-On

Column-Width Panelboards

60 A Maximum Branch—Copper Bus Standard

Max. No. of Poles	Mains Rating	Box and Interior with S/N 8.625" W. x 5" D.		Front (Surface Mount)
		Catalogue Number	Box Ht.	Catalogue Number

1 Phase 3-Wire Main Lugs Only

30	225	NQ830L2	45	LX45TS
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Main Circuit Breaker—2-pole

20	100	NQ820B1C	40	LX40TS
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3 Phase 4-Wire Main Lugs Only

30	100	NQ8430L1C	40	LX40TS
42	225	NQ8442L2C	58	LX58TS

Main Circuit Breaker—3-pole

30	100	NQ8430B1C	45	LX45TS
42	225	NQ8442B2C	62	LX62TS

NQ Column-Width

Cable Troughs and Pull Boxes

Cable Troughs (L=Length)▲				Pull Boxes with Solid Neutral	
L (IN)	8.625" x 5" Catalogue Number	L (IN)	8.625" x 5" Catalogue Number	S/N Terminals	Catalogue Number
36	MTX836	84	MTX884	42	MPX81542
48	MTX848	96	MTX896		
56	MTX856	104	MTX8104		
66	MTX866	112	MTX8112		

▲ Cable troughs are standard with a trough barrier.

Factory assembled NQOB/NF column-width panels are available. Contact your nearest Schneider Electric sales office.

Schneider Electric

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19 Waterman Avenue
Toronto, Ontario M4B 1Y2
Tel: 1-800-565-6699

www.schneider-electric.ca