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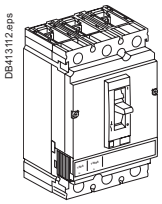
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H-Frame, J-Frame unit-mount circuit breaker

PowerPact H-Frame 150 A unit-mount thermal-magnetic circuit breakers (480 V AC, 250 V DC)

With factory sealed trip unit (suitable for reverse connection)

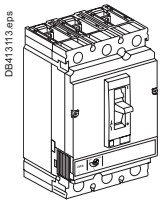


H-Frame, 150 A, 3P, 480 V AC 50/60 Hz, 250 V DC

Current rating at 40 °C (A)	Fixed AC magnetic trip (A)		Interrupting rating Standard (80 %) rated		
	Hold	Trip	D - 18 kA	G - 35 kA	J [1] - 65 kA
15	350	750	**NHDF36015TW**	**NHGF36015TW**	**NHJF36015TW**
20	350	750	**NHDF36020TW**	**NHGF36020TW**	**NHJF36020TW**
30	350	750	**NHDF36030TW**	**NHGF36030TW**	**NHJF36030TW**
40	400	850	**NHDF36040TW**	**NHGF36040TW**	**NHJF36040TW**
50	400	850	**NHDF36050TW**	**NHGF36050TW**	**NHJF36050TW**
60	800	1450	**NHDF36060TW**	**NHGF36060TW**	**NHJF36060TW**
70	800	1450	**NHDF36070TW**	**NHGF36070TW**	**NHJF36070TW**
80	800	1450	**NHDF36080TW**	**NHGF36080TW**	**NHJF36080TW**
90	800	1450	**NHDF36090TW**	**NHGF36090TW**	**NHJF36090TW**
100	900	1700	**NHDF36100TW**	**NHGF36100TW**	**NHJF36100TW**
125	900	1700	**NHDF36125TW**	**NHGF36125TW**	**NHJF36125TW**
150	900	1700	**NHDF36150TW**	**NHGF36150TW**	**NHJF36150TW**

PowerPact J-Frame 250 A unit-mount thermal-magnetic circuit breakers

With factory sealed trip unit (suitable for reverse connection)

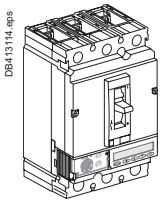


J-Frame, 250 A, 3P, 480 V AC 50/60 Hz, 250 V DC

Current rating at 40 °C (A)	Fixed AC magnetic trip (A)		Interrupting rating Standard (80 %) rated		
	Hold	Trip	D - 18 kA	G - 35 kA	J [1] - 65 kA
150	750	1500	**NJDF36150TW**	**NJGF36150TW**	**NJJF36150TW**
175	875	1750	**NJDF36175TW**	**NJGF36175TW**	**NJJF36175TW**
200	1000	2000	**NJDF36200TW**	**NJGF36200TW**	**NJJF36200TW**
225	1125	2250	**NJDF36225TW**	**NJGF36225TW**	**NJJF36225TW**
250	1250	2500	**NJDF36250TW**	**NJGF36250TW**	**NJJF36250TW**

H-Frame 150 A and J-Frame 250 A electronic trip UL rated circuit breakers (480 V AC, 50/60 Hz)

With factory sealed trip unit (suitable for reverse connection)



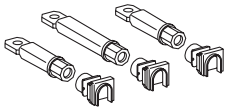
Electronic trip unit type	Trip function	Sensor rating (A)	Interrupting rating Standard (80 %) rated		
			D - 18 kA	G - 35 kA	J [1] - 65 kA
Micrologic 3.2					
Standard	LI	60	**NHDF36060U31XTW**	**NHGF36060U31XTW**	**NHJF36060U31XTW**
		100	**NHDF36100U31XTW**	**NHGF36100U31XTW**	**NHJF36100U31XTW**
		150	**NHDF36150U31XTW**	**NHGF36150U31XTW**	**NHJF36150U31XTW**
		250	**NJDF36250U31XTW**	**NJGF36250U31XTW**	**NJJF36250U31XTW**
Micrologic 5.2 E					
Energy	LSI	60	**NHDF36060U53XTW**	**NHGF36060U53XTW**	**NHJF36060U53XTW**
		100	**NHDF36100U53XTW**	**NHGF36100U53XTW**	**NHJF36100U53XTW**
		150	**NHDF36150U53XTW**	**NHGF36150U53XTW**	**NHJF36150U53XTW**
		250	**NJDF36250U53XTW**	**NJGF36250U53XTW**	**NJJF36250U53XTW**

(1) UL Listed/CSA Certified as current limiting circuit breakers.

H-Frame, J-Frame circuit breaker accessories

Unit-mount circuit breaker

Rear connection



Description device			3P H-Frame	3P J-Frame
Mixed rear connection Kit			S37432	S37437
Consisting of	Short rear connections	Set of 2	2 x (1) S37433	2 x (1) S37438
	Long rear connections	Set of 2	S37434	S37439
	Short terminal cover		S37436	S37440

Mechanical lug kits for H-Frame and J-Frame circuit breaker

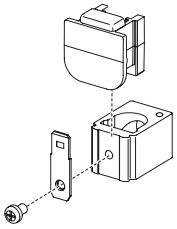
Circuit breaker application		Qty per kit	
Al lugs for use with Al or Cu wire (HD/HG/HJ)	15-150 A	3	AL150HDS
Al lugs for use with Al or Cu wire (JD/JG/JJ)	150-175 A	3	AL175JD
Al lugs for use with Al or Cu wire (JD/JG/JJ)	200-250 A	3	AL250JD

Terminal nuts for busbar connection

Description			Qty per kit	
H-Frame terminal nut insert-english (HD/HG/HJ)	1/4-20	9-10.2 Nm	2	S37425
H-Frame terminal nut insert-english (HD/HG/HJ)	1/4-20	9-10.2 Nm	3	S37444
H-Frame terminal nut insert-metric (HD/HG/HJ)	M6	9-10.2 Nm	2	S37426
J-Frame terminal nut insert-english (JD/JG/JJ)	1/4-20	9-10.2 Nm	2	S37427
J-Frame terminal nut insert-english (JD/JG/JJ)	1/4-20	9-10.2 Nm	3	S37445
J-Frame terminal nut insert-metric (JD/JG/JJ)	M8	9-10.2 Nm	2	S37428

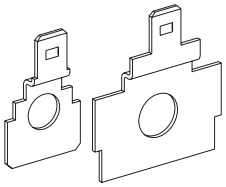
Control wire terminals for mechanical lugs and terminal nuts

Mechanical lugs



	Qty per kit	
Control wire terminal for H-frame lugs (HD/HG/HJ)	2	S37423
Control wire terminal for J-frame lugs (JD/JG/JJ)	2	S37424

Busbar connection



	Qty per kit	
Control wire terminal for H-frame lugs terminal nut (HD/HG/HJ)	2	S37429
Control wire terminal for J-frame lugs terminal nut (JD/JG/JJ)	2	S37430

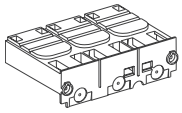
(1) Order two kits (two in kit x two kits for total of four).

H-Frame, J-Frame circuit breaker accessories

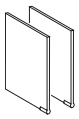
Unit-mount circuit breaker

Terminal shields and interphase barriers

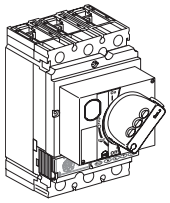
Used with



H- and J-Frame used with mechanical lugs		Qty per kit	
Short lug shield	H-Frame - 60 A 3 AWG	1	**S37446**
	H-Frame - 150 A 3/0 AWG	1	**S37447**
	J-Frame - 350 kcmil	1	**S37448**
H- and J-Frame used with power distribution connectors and compression lugs			
Long lug shield	H-Frame	1	**S37449**
	J-Frame	1	**S37450**
Interphase barriers			
		Set of 6	**LV429329**

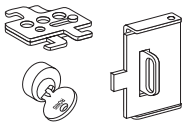


Rotary operated handles



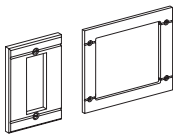
		H- and J-Frame
Direct mounted		
Standard black handle (handle only)		**LV429337**
Standard black handle with	One early-break switch	**LV429337 + LV429345**
	Two early-make switches	**LV429337 + LV429346**
Red handle onyellow bezel		**LV429339**
	One early-break switch	**LV429339 + LV429345**
	Two early-make switches	**LV429339 + LV429346**
Door mounted		
Standard black handle (handle only)		**LV429338**
Standard black handle with two early-make switches		**LV429338 + LV429346**
Red handle on yellow bezel (handle only)		**LV429340**
Base for extended rotary handle		
Extended rotary handle		**LV429502**
Telescoping		
Telescoping		**LV429344**

Locking systems



		H- and J-Frame
Handle padlocking device (1)	Removable (lock OFF only)	**LV429370**
	Fixed (lock OFF or ON)	**LV429371**
	Fixed (lock OFF only)	**S37422**

Installation accessories



Front-panel escutcheons IP40	H- and J-Frame
For toggle	**29315**
For rotary handle, motor operator or extended escutcheon	**LV429317**

Lead - Sealing accessories



Bay of accessories	**LV429375**

(1) Rotary handle has integral padlocking capability.

H-Frame, J-Frame circuit breaker accessories

Unit-mount circuit breaker

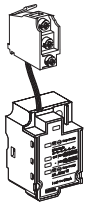
Electrical auxiliaries

Auxiliary contacts (changeover)


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OF or SD or SDE or SDV	**29450**
OF or SD or SDE or SDV low level	**29452**

SDx output module for Micrologic electronic trip unit

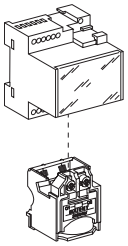

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SDx module 24/415 V AC/DC	**LV429532**

Voltage releases


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	Voltage	MX	MN
AC	24 V 50/60 Hz	**LV429384**	**LV429404**
	48 V 50/60 Hz	**LV429385**	**LV429405**
	110-130 V 50/60 Hz	**LV429386**	**LV429406**
	220-240 V 50/60 Hz and 208-277 V 60 Hz	**LV429387**	**LV429407**
	380-415 V 50 Hz and 440-480 V 60 Hz	**LV429388**	**LV429408**
	525 V 50 Hz and 600 V 60 Hz	**LV429389**	**LV429409**
DC	12 V	**LV429382**	**LV429402**
	24 V	**LV429390**	**LV429410**
	30 V	**LV429391**	**LV429411**
	48 V	**LV429392**	**LV429412**
	60 V	**LV429383**	**LV429403**
	125 V	**LV429393**	**LV429413**
	250 V	**LV429394**	**LV429414**


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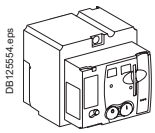
MN 48 V 50/60 Hz with fixed time delay		
Composed of:	MN 48 V DC	**LV429412**
	Delay unit 48 V 50/60 Hz	**LV429426**
MN 220-240 V 50/60 Hz with fixed time delay		
Composed of:	MN 250 V DC	**LV429414**
	Delay unit 220-240 V 50/60 Hz	**LV429427**
MN 48 V DC/AC 50/60 Hz with adjustable time delay		
Composed of:	MN 48 V DC	**LV429412**
	Delay unit 48 V 50/60 Hz	**33680**
MN110-130 V DC/AC 50/60 Hz with adjustable time delay		
Composed of:	MN 125 V DC	**LV429413**
	Delay unit 110-130 V 50/60 Hz	**33681**
MN 220-250 V 50/60 Hz with adjustable time delay		
Composed of:	MN 250 V DC	**LV429414**
	Delay unit 220-250 V 50/60 Hz	**33682**

H-Frame, J-Frame circuit breaker accessories

Unit-mount circuit breaker

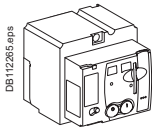
Motor mechanism

Motor mechanism module supplied with SDE adapter



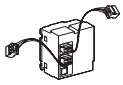
	Voltage	MT100/160	MT250
AC	48-60 V 50/60 Hz	**LV429440**	**LV431548**
	110-130 V 50/60 Hz	**LV429433**	**LV431540**
	220-240 V 50/60 Hz and 208-277 V 60 Hz	**LV429434**	**LV431541**
	380-415 V 50/60 Hz and 440-480 V 60 Hz	**LV429435**	**LV431542**
DC	24-30 V	**LV429436**	**LV431543**
	48-60 V	**LV429437**	**LV431544**
	110-130 V	**LV429438**	**LV431545**
	250 V	**LV429439**	**LV431546**

Communicating motor mechanism module supplied with SDE adapter



Motor mechanism module	220-240 V 50/60 Hz	MTc 100/160	**LV429441**
		MTc 250	**LV431549**

+



Breaker and Status Communication Module	BSCM	**LV434205**

+

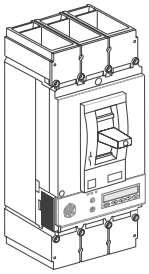


NSX cord	Wire length L = 0.35 m	**LV434200**
	Wire length L = 1.3 m	**LV434201**
	Wire length L = 3 m	**LV434202**
	U > 480 V AC wire length L = 0.35 m	**LV434204**

L-Frame unit-mount circuit breaker

L-Frame 600 A electronic trip UL rated 3P circuit breakers (480 V AC, 50/60 Hz)

With factory sealed trip unit suitable for reverse connection



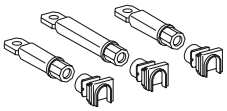
Electronic trip unit type	Trip function	Sensor rating (A)	Interrupting rating Standard (80 %) rated		
			D - 18 kA	G - 35 kA	J [1] - 65 kA
Micrologic 3.3					
Standard	LI	250 A	**NLDF36250U31XTW**	**NLGL36250U31XTW**	**NLJF36250U31XTW**
		400 A	**NLDF36400U31XTW**	**NLGF36400U31XTW**	**NLJF36400U31XTW**
		600 A	**NLDF36600U31XTW**	**NLGF36600U31XTW**	**NLJF36600U31XTW**
Micrologic 5.3 E					
Energy	LSI	400 A	**NLDF36400U53XTW**	**NLGF36400U53XTW**	**NLJF36400U53XTW**
		600 A	**NLDF36600U53XTW**	**NLGF36600U53XTW**	**NLJF36600U53XTW**

(1) UL Listed/CSA Certified as current limiting circuit breakers.

L-Frame circuit breaker accessories

Rear connection

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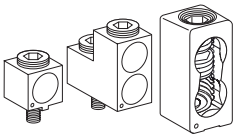


Description device			3P L-Frame
Mixed rear connection kit			**32477**
Consisting of:	Short rear connections	Set of 2	2 x [1] **32475**
	Long rear connections	Set of 2	2 x [1] **32476**
	Short terminal cover		**32562**

Mechanical lug kits for L-Frame circuit breakers

Al lugs for use with Al or Cu wire

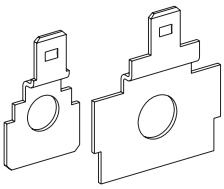
DB413118.eps



Ampere rating	Unit mount	Number of wires per lug and wire range [2]		3P
250	■	(1) 2 AWG - 500 kcmil Al	Set of 3	**AL400L61K3**
400/600	■	(2) 2/0 AWG - 500 kcmil Al or Cu	Set of 3	**AL600LS52K3**
400/600	■	(2) 3/0 AWG - 500 kcmil Al or Cu	Set of 3	**AL600LF52K3**

Control wire terminals

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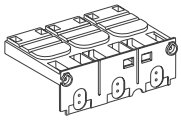
Busbar connection	Qty per kit	
Control tap takeoff (L-frame)	2	**29348**

(1) Order two kits (two in kit x two kits for total of four).
(2) For control wire installation, use an 8 - 32 x 1/4 in. screw (not provided) into tapped control wire hole in lower left hand corner of lug.

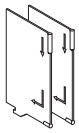
L-Frame unit-mount circuit breaker

Terminal shields and phase barriers

Used with

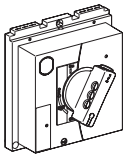


L-Frame		
Short terminal shield (3P)	1	LV432591
Long terminal shield (3P)	1	LV432593



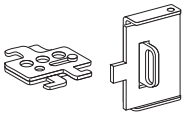
Interphases barriers		
	Set of 6	LV432570

Rotary operated handles



	L-Frame
Direct mounted	
Standard black handle (handle only)	LV432597
Red handle on yellow bezel	LV432599
Door mounted	
Standard black handle (handle only)	LV432598
Red handle on yellow bezel (handle only)	LV432600
Telescoping	
Telescoping	LV432603

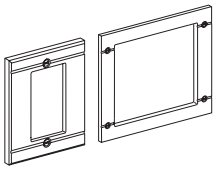
Locking systems



		L-Frame
Handle padlocking device [1]	Removable (lock OFF only)	LV429370
	Fixed (lock OFF or ON)	LV432631
	Fixed (lock OFF only)	NJPAF

Installation accessories

Front-panel escutcheons IP40



	L-Frame
For toggle	32556
For rotary handle, motor operator or extended escutcheon	LV432558

Lead - Sealing accessories



Bay of accessories	LV429375

(1) Rotary handle has integral padlocking capability.

L-Frame circuit breaker accessories

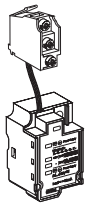
Electrical auxiliaries

Auxiliary contacts (changeover)



OF or SD or SDE or SDV	**29450**
OF or SD or SDE or SDV low level	**29452**

SDx output module for Micrologic electronic trip unit

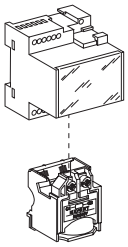


SDx module 24/415 V AC/DC	**LV429532**

Voltage releases



	Voltage	MX	MN
AC	24 V 50/60 Hz	**LV429384**	**LV429404**
	48 V 50/60 Hz	**LV429385**	**LV429405**
	110-130 V 50/60 Hz	**LV429386**	**LV429406**
	220-240 V 50/60 Hz and 208-277 V 60 Hz	**LV429387**	**LV429407**
	380-415 V 50 Hz and 440-480 V 60 Hz	**LV429388**	**LV429408**
	525 V 50 Hz and 600 V 60 Hz	**LV429389**	**LV429409**
DC	12 V	**LV429382**	**LV429402**
	24 V	**LV429390**	**LV429410**
	30 V	**LV429391**	**LV429411**
	48 V	**LV429392**	**LV429412**
	60 V	**LV429383**	**LV429403**
	125 V	**LV429393**	**LV429413**
	250 V	**LV429394**	**LV429414**

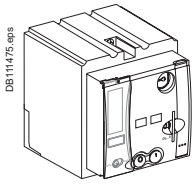


MN 48 V 50/60 Hz with fixed time delay		
Composed of:	MN 48 V DC	**LV429412**
	Delay unit 48 V 50/60 Hz	**LV429426**
MN 220-240 V 50/60 Hz with fixed time delay		
Composed of:	MN 250 V DC	**LV429414**
	Delay unit 220-240 V 50/60 Hz	**LV429427**
MN 48 V DC/AC 50/60 Hz with adjustable time delay		
Composed of:	MN 48 V DC	**LV429412**
	Delay unit 48 V 50/60 Hz	**33680**
MN110-130 V DC/AC 50/60 Hz with adjustable time delay		
Composed of:	MN 125 V DC	**LV429413**
	Delay unit 110-130 V 50/60 Hz	**33681**
MN 220-250 V 50/60 Hz with adjustable time delay		
Composed of:	MN 250 V DC	**LV429414**
	Delay unit 220-250 V 50/60 Hz	**33682**

L-Frame circuit breaker accessories

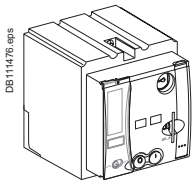
Motor mechanism

Motor mechanism module



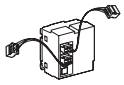
	Voltage	MT400-630
AC	48-60 V 50/60 Hz	**LV432639**
	110-130 V 50/60 Hz	**LV432640**
	220-240 V 50/60 Hz and 208-277 V 60 Hz	**LV432641**
	380-415 V 50 Hz	**LV432642**
	440-480 V 60 Hz	**LV432647**
DC	24-30 V	**LV432643**
	48-60 V	**LV432644**
	110-130 V	**LV432645**
	250 V	**LV432646**
Operation counter		**LV432648**

Communicating motor mechanism module



Motor mechanism module	220-240 V 50/60 Hz	MTc 400/630	**LV432652**

+



Breaker status	BSCM	**LV434205**

Communication Module



+

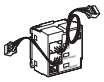
NSX cord	Wire length L = 0.35 m	**LV434200**
	Wire length L = 1.3 m	**LV434201**
	Wire length L = 3 m	**LV434202**
	U > 480 V AC wire length L = 0.35 m	**LV434204**

Monitoring and control, test tools

PowerPact H- J- and L- Frame

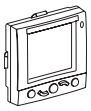
Monitoring and control (remote operation)

Circuit breaker accessories



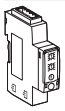
Breaker Status Control Module	BSCM	**LV434205**

ULP display module [(1)]



Switchboard front display module FDM121	**TRV00121**
FDM mounting accessory (diameter 22 mm)	**TRV00128**

ULP communication module



Modbus interface	Modbus SL communication interface module	**TRV00210**

ULP wiring accessories



NSX cord L = 0.35 m V ≤ 480 V	**LV434200**
NSX cord L = 1.3 m (4.27 ft) V ≤ 480 V	**LV434201**
NSX cord L = 3 m (9.84 ft) V ≤ 480 V	**LV434202**
NSX cord L = 4.5 m (14.7 ft) V ≤ 480 V	**LV434304**
NSX cord L = 1.3 m (4.27 ft) V > 480 V AC	**LV434204**
NSX cord L = 3 m (9.84 ft) V > 480 V	**LV434303**
NSX cord L = 4.5 m (14.7 ft) V > 480 V	**LV434305**



10 stacking connectors for communication interface modules	**TRV00217**



10 Modbus line terminators	**VW3A8306DRC**



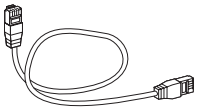
RS 485 roll cable (4 wires, length 60 m)	**50965**



5 RJ45 connectors female/female	**TRV00870**

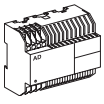


10 ULP line terminators	**TRV00880**



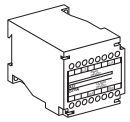
10 RJ45/RJ45 male cord L = 0.3 m	**TRV00803**
10 RJ45/RJ45 male cord L = 0.6 m	**TRV00806**
5 RJ45/RJ45 male cord L = 1 m	**TRV00810**
5 RJ45/RJ45 male cord L = 2 m	**TRV00820**
5 RJ45/RJ45 male cord L = 3 m	**TRV00830**
1 RJ45/RJ45 male cord L = 5 m	**TRV00850**
2 wires RS 485 insulated repeated	**TRV00211**

Power supply modules



External power supply module 24 V DC-1 A OVC IV	24-30 V DC	**54440**
	48-60 V DC	**54441**
	100-125 V AC	**54442**
	110-130 V AC	**54443**
	200-240 V AC	**54444**
	380-415 V AC	**54445**

Battery module



24 V DC battery module	**54446**

(1) For measurement display with Micrologic A and E or status display with BSCM.

Monitoring and control, test tools

PowerPact H-Frame, J-Frame, L- Frame

Test tool and software

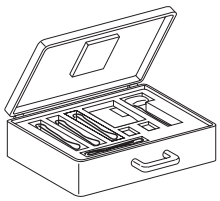
Test tool

DB111449.eps



Pocket battery for Micrologic — **LV434206**

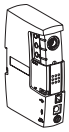
DB111451.eps



Maintenance case — **TRV00910**

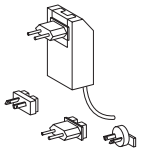
Comprising:
- USB maintenance interface
- Power supply
- Micrologic cord
- USB cord
- RJ45/RJ45 male cord

DB111450.eps



Spare USB maintenance interface — **TRV00911**

DB111452.eps



Spare power supply 110-240 V AC — **TRV00915**

DB111453.eps



Spare Micrologic cord for USB maintenance interface — **TRV00917**

Software

DB117158.eps



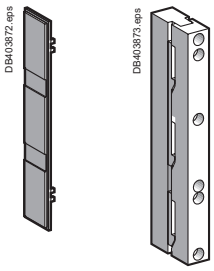
Configuration and setting software RSU — **LV4ST100** (1)

Test software LTU — **LV4ST121** (1)

(1) Downloadable from http://www.schneider-electric.com.

Distribution system
Busbar support and mounting plates

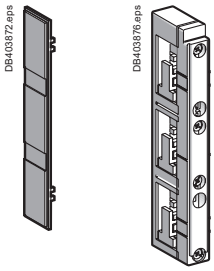
IEC busbar supports and accessories



LA9ZX01573 LA9ZX01495

		Sale in ind.Q.	
3-pole	For 12, 15, 20, 25, 30 x 5/10 mm² busbars	10	**LA9ZX01495**
	End covers for 3-pole busbar support	10	**LA9ZX01573**

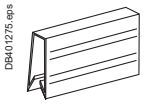
UL busbar supports and accessories



LA9ZX01573 LA9ZX01508

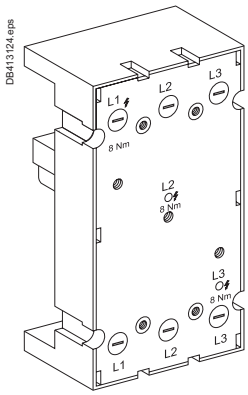
		Sale in ind.Q.	
3-pole	For 12, 20, 30 x 5/10 mm busbars	10	**LA9ZX01508**
	Base plate 240 x 700	2	**LA9ZX01515**
	End covers for busbar support	10	**LA9ZX01573**

Other accessories



		Sale in ind.Q.	
Covers, length 1 m	For 12-30 x 5 mm² busbars	Set of 10	**LA9ZX01244**
	For 12-30 x 10 mm² busbars	Set of 10	**LA9ZX01245**

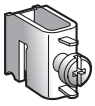
For PowerPact 3P circuit breakers



Ratings 600 V (UL) - 690 V AC (IEC)	Sale in ind. Q.	
Mounting plate for H frame circuit breakers 100-250 A (104 x 190 x 63)	1	**LA9ZA32600**
Mounting plate for J frame circuit breakers 250 A (104 x 190 x 63)	1	**LV429372**
Mounting plate for L frame circuit breakers 400-630 A (139 x 270 x 63)	1	**LV432623**

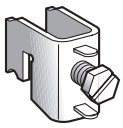
Distribution system
Terminals and connection module

Terminals



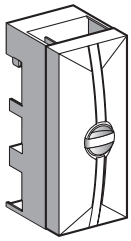
LA9ZX01285

		Sale in ind. Q.	
One-pole for flat bars, 5 mm	270 A (I max) Capacity 4-35 mm²	50	**LA9ZX01285**
	400 A (I max) Capacity 16-70 mm²	25	**LA9ZX01287**
3P cover, width 84 mm		10	**LA9ZX01413**



LA9ZX01287

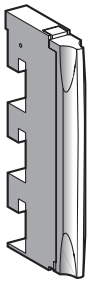
Terminals on mounting plate



LA9ZX01243

		Sale in ind. Q.	
3P, on mounting plate + cover, for 12 x 5 to 30 x 10 busbars	440 A (I max) Capacity 35-120 mm²	1	**LA9ZX01243**

Connection module



LA9ZX01563

		Sale in ind. Q.	
3P, spring terminal connection + cover, for busbars of 12 x 5 to 30 x 10	80 A (I max) Capacity 1.5-16 mm²	8	**LA9ZX01563**

Connection by connectors

		LA9ZX01285		LA9ZX01287		LA9ZX01243		LA9ZX01563	
		Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.
Flexible wire	mm²	4	35	16	70	35	120	1.5	16
Multi-strand wire	mm²	4	35	16	70	35	120	1.5	16
Rigid wire	mm²	4	35	–	–	–	–	1.5	16
Tightening torque	N.m	... x 5 Supplied without cover		... x 5 Supplied without cover		... x 5-10		... x 5-10	