

PowerPact H-, J-, and L-Frame Circuit Breakers

Catalog Numbering

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Table 1: Circuit Breaker Catalog Numbers

Segment	Character	Description	—	J	L	L	3	6	250	W	T	—	—	—	—
Brand	—	Square D													
	N	Schneider Electric													
Frame	H	H-Frame													
	J	J-Frame													
	L	L-Frame													
Performance Level (kA)		See Table 2													
Terminations	L	Lugs Line/Load Side													
	M	Lugs Line Side													
	P	Lugs Load Side													
	F	Bus Bar													
	A	A-Line													
	S	Rear Connected													
	N	Plug-in													
	D	Drawout													
Poles	K	Reverse I-Line													
	2	Two Pole													
	3	Three Pole													
Voltage	4	Four Pole													
	6	600 V													
Amperage	4	480 V													
	060	60 A													
	100	100 A													
	150	150 A													
	250	250 A													
	400	400 A													
	600	600 A													
Mission Critical	000	Switch or Frame Only													
	W	(J- and L-frame with D, G, J and L-interrupting ratings)													
Trip Unit	See Table 3														
I-Line Phasing															
Accessory Suffix Code	See Table 4														

Table 2: Interrupting Rating

	UL® / CSA® / NOM®					IEC 647-2 Icu/Ics					
	240 Vac	480 Vac	600 Vac	250 Vdc ¹	500 Vdc ²	220/240 Vac	380/440/415 Vac	500/525 Vac	690 Vac	250 Vdc ¹	500 Vdc ³
D	25 kA	18 kA	14 kA	20 kA	—	25/25 kA	18/18 kA	14/14 kA	—	20 kA	20 kA
G	65 kA	35 kA	18 kA	20 kA	20 kA	65/65 kA	35/35 kA	18/18 kA	—	20 kA	20 kA
J	100 kA	65 kA	25 kA	20 kA	—	100/100 kA	65/65 kA	25/25 kA	—	20 kA	20 kA
L	125 kA	100 kA	50 kA	20 kA	50 kA	125/125 kA	100/100 kA	50/50 kA	—	20 kA	20 kA
R	200 kA	200 kA	100 kA	—	—	150 kA	125 kA	75 kA	20 kA	—	—

¹ 250 Vdc ratings only available with PowerPact H or J circuit breakers with thermal-magnetic trip units (not including MCP).

² UL 500 Vdc ratings only available with PowerPact H-, J-, and L-frame circuit breakers with thermal-magnetic trip units (not including MCP).

³ IEC 500 Vdc rating only available on PowerPact J-frame circuit breakers.

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Table 3: Trip Unit Numbering

Trip Unit Type	Character	Description
Micrologic Trip Units	U31 X	LI Standard Protection
	U33X	LSI Standard Protection
	U43X	LSI plus Ammeter
	U44X	LSIG plus Ammeter
	U53X	LSI plus Energy Management
	U54X	LSIG plus Energy Management
	M37X	Magnetic Only (L-Frame Only)
	M38X	Motor Protector Circuit Breaker
	S40X	400 A Molded Case Switch (L-Frame Automatic Switch)
	S60X	600 A Molded Case Switch (L-Frame Automatic Switch)
	F40	400 A L-Frame Only (No Trip Unit)
Thermal-Magnetic Trip Units	F60	600 A L-Frame Only (No Trip Unit)
	—	Standard Fixed Trip Unit (Suitable for reverse connection)
	F06	60 A H-Frame Only (No trip unit)
	F15	150 A H-Frame Only (No trip unit)
	F25	250 A J-Frame Only (No trip unit)
	T	Complete Circuit Breaker (Frame + removable trip unit)
	S15	150 A Molded Case Switch (H-Frame automatic switch)
	S17	175 A Molded Case Switch (J-Frame automatic switch)
	S25	250 A Molded Case Switch (J-Frame automatic switch)
	C	100% Rated Continuous Current Rating ¹
	M71	30 A H-Frame Motor Circuit Protector (MCP)
	M72	50 A H-Frame Motor Circuit Protector (MCP)
	M73	100 A H-Frame Motor Circuit Protector (MCP)
	M74	150 A H-Frame Motor Circuit Protector (MCP)
	M75	250 A J-Frame Motor Circuit Protector (MCP)
	D81	500 Vdc 150–175 A J-Frame Molded Case Circuit Breaker
	D82	500 Vdc 200–250 A J-Frame Molded Case Circuit Breaker
	D87	500 Vdc 30–70 A H-Frame Molded Case Circuit Breaker
	Dxx	500 Vdc 300A–1200A L-Frame Molded Case Circuit Breaker (Refer to Table 9 for details)
	R	100% Rated Continuous Current Rating Complete Circuit Breaker (frame + removable trip unit)

¹ 100% ratings valid for:
 Three-pole H/J frame unit mount and busbar connection
 Three-pole/four-pole L-frame 250 A and 400 A unit mount
 Three-pole L-frame 250 A and 400 A I-Line

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Table 4: Factory Installed Accessory Suffix Codes (Building Sequence as Listed) and Field-Installable Kit Number

(1) Communication Networks ¹		
Suffix	Description	Kit No.
EA	NSX Cord 1.3 m, V ≤ 480 V	S434201
EB	NSX Cord 3 m, V ≤ 480 V	S434202
ED	NSX Cord 1.3 m, V > 480 V	S434204
EE	NSX Cord 3 m, V > 480 V	S434303
EG ⁴	BSCM + NSX Cord 1.3 m, V ≤ 480 V	S434201BS
EH ⁴	BSCM + NSX Cord 3 m, V ≤ 480 V	S434202BS
EK ⁴	BSCM + NSX Cord 1.3 m, V > 480 V	S434204BS
EL ⁴	BSCM + NSX Cord 3 m, V > 480 V	S434303BS
EN	24 Vdc Power Supply Terminal Block	S434210

(2) Indication Contacts		
Suffix	Description	Kit No.
V	SDX	S429532
	SDTAM (motor only trip units)	S429424

(3) Auxiliary Switch			
Suffix	Contacts	Kit No.	Kit Qty.
AA	1A/1B Standard	S29450	1
AB	2A/2B Standard	S29450	2
AC	3A/3B Standard (L-frame only)	S29450	3
AE	1A/1B Low-Level	S29452	1
AF	2A/2B Low-Level	S29452	2
AG	3A/3B Low Level (L-frame only)	S29452	3

(4) Alarm/Overcurrent Trip Switch			
Suffix	Switch	Kit No.	Kit Qty.
PowerPact L-Frame and PowerPact H/J-Frame with Micrologic 5/6 trip units			
BC	Alarm Switch	S29450	1
BH	Alarm Switch Low-Level	S29452	1
BD	Overcurrent Trip Switch, Standard SDE Actuator	S29450	1
		S29451	1
BJ	Overcurrent Trip Switch, Low-Level SDE Actuator	S29452	1
		S29451	1
BE	Alarm Switch and Overcurrent Trip Switch, Standard	S29450	2
BK	Alarm Switch and Overcurrent Trip Switch, Low-Level	S29452	2
PowerPact H/J-Frame with Thermal-Magnetic or Micrologic 1/2/3 trip units			
BC	Alarm Switch	S29450	1
BH	Alarm Switch Low-Level	S29452	1
BD	Overcurrent Trip Switch, Standard SDE Actuator	S29450	1
		S29451	1
BJ	Overcurrent Trip Switch, Low-Level SDE Actuator	S29452	1
		S29451	1
BE	Alarm Switch and Overcurrent Trip Switch, Standard SDE Actuator	S29450	2
		S29451	1
BK	Alarm Switch and Overcurrent Trip Switch, Low-Level SDE Actuator	S29452	2
		S29451	1

- ¹ Except for 24 Vdc Power Supply Terminal Block, installation requires IFM (STRV00210) for Modbus communication and/or FDM (STRV00121) for external display.
- ² YH1 = all installed accessories but ZSI and ENCT.
YH2 = ENCT and all installed accessories.
YH3 = ZSI and all installed accessories.
YH4 = ZSI, ENCT and all installed accessories.
- ³ I-Line wire harness included for communication network accessories.
Optional wire harness for unit mount requires YH1 suffix.
- ⁴ If using with a motor operator, requires Communicating Motor Operator (suffix NC).
- ⁵ Requires Micrologic trip unit U43, U44, U53, or U54 and communication accessories EG, EH, EK, or EL.

(5) Shunt Trip		(6) Undervoltage Release UVR		Voltage
Suffix	Kit No.	Suffix	Kit No.	
SK	S29384	UK	S29404	24 Vac
SL	S29385	UL	S29405	48 Vac
SA	S29386	UA	S29406	120 Vac
SD	S29387	UD	S29407	208/277 Vac
SH	S29388	UH	S29408	380/480 Vac
SJ	S29389	UJ	S29409	525/600 Vac
SN	S29382	UN	S29402	12 Vdc
SO	S29390	UO	S29410	24 Vdc
SU	S29391	UU	S29411	30 Vdc
SP	S29392	UP	S29412	48 Vdc
SV	S29383	UV	S29403	60 Vdc
SR	S29393	UR	S29413	125 Vdc
SS	S29394	US	S29414	250 Vdc

(6) Communicating Motor Operator ⁵				
Suffix	Voltage	H-Frame	J-Frame	L-Frame
NC	220/240 Vac	S429441	S431549	S432652

(7) Motor Operator				
Suffix	Voltage	H-Frame	J-Frame	L-Frame
ML	48/60 Vac	S29440	S31548	S432639
MA	120 Vac	S29433	S31540	S432640
MD	277 Vac	S29434	S31541	S432641
MF	380/415 Vac	—	—	S432642
MH	440/480 Vac	S29435	S31542	S432647
MO	24/30 Vdc	S29436	S31543	S432643
MV	48/60 Vdc	S29437	S31544	S432644
MR	110/130 Vdc	S29438	S31545	S432645
MS	250 Vdc	S29439	S31546	S432646

(8) Rotary Handle			
Suffix	Handle Type (color)	H/J-Frame	L-Frame
RD10	Direct Mount (black)	S29337	S32597
RD20	Direct Mount (red)	S29339	S32599
RE10	Extended Door Mount (black)	S29338	S32598
RT10	Telescoping (black)	S29343	S32603
RE20	Extended Door Mount (red)	S29340	S32600

(9) Wire Harnesses ²		
Suffix	Harness ²	Kit No.
YH3	ZSI Wire Harness, H/J Frame	S434300
YH3	ZSI Wire Harness, L-Frame	S434301
YH2	ENCT Wire Harness	S434302
YH1	OF Wire Harness	S434500
YH1	SD/SDE Wire Harness	S434501
YH1	SDx/SDTAM Wire Harness	S434502
YH1	MN Wire Harness	S434503
YH1	MX Wire Harness	S434504
YH1	Motor Operator Wire Harness	S434506
YH1	Communicating Motor Operator Wire Harness	S434507
YH1 ³	NSX Wire Harness	S434508
YH4	ENCT and ZSI Wire Harnesses	—
YH1 ³	24 Vdc Power Supply Wire Harness	S434505

(10) Handle Padlocks			
Suffix	Padlock Type	H/J-Frame	L-Frame
YP	Handle Padlock, ON or OFF	S29371	S32631
YQ	Handle Padlock, OFF Only	S37422	NJPAF
YQ	Handle Padlock, OFF Only 2P	H2PHLA	—