

PowerPact™ H-, J-, and L-Frame Circuit Breakers Accessories and Auxiliaries

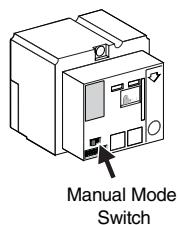


Table 92: Motor Operator Characteristics

Response Time (ms)	Opening	< 600	
	Closing	< 80	
Operating Frequency	cycles/minute max.	4	
Power Requirements ¹	AC (VA)	Opening	≤500
		Closing	≤500
	DC (W)	Opening	≤500
		Closing	≤500

¹ For H- and J-frame, the inrush current is 2x operating current for 10 ms.

Table 93: Motor Operator and Accessory Suffix Codes and Catalog Numbers

Device ¹	Control Voltage	Factory-Installed Suffix	Field-Installable Kit No.		
			H-Frame	J-Frame	L-Frame
Communicating Motor Operator	220/240 Vac 50/60 Hz	NC	S429441	S431549	S432652
Motor Operator	48/60 Vac 50/60 Hz	ML	S29440	S31548	S432639
	110/130 Vac 50/60 Hz	MA	S29433	S31540	S432640
	208/277 Vac 60 Hz	MD	S29434	S31541	S432641
	380/415 Vac 50/60 Hz	MF	—	—	S432642
	440/480 Vac 60 Hz	MH	S29435	S31542	S432647
	24/30 Vdc	MO	S29436	S31543	S432643
	48/60 Vdc	MV	S29437	S31544	S432644
	110/130 Vdc	MR	S29438	S31545	S432645
	250 Vdc	MS	S29439	S31546	S432646
Lock Mounting Hardware	—	—	—	—	S32649
Ronis® Lock	—	—	S41940	S41940	S41940
Profalux® Lock	—	—	S42888	S42888	S42888
Mounting Hardware with Ronis Lock	—	—	S429449	S429449	—
Operations Counter	—	—	—	—	S32648
Adapter for I-Line Circuit Breaker	—	—	S37420	S37420	—

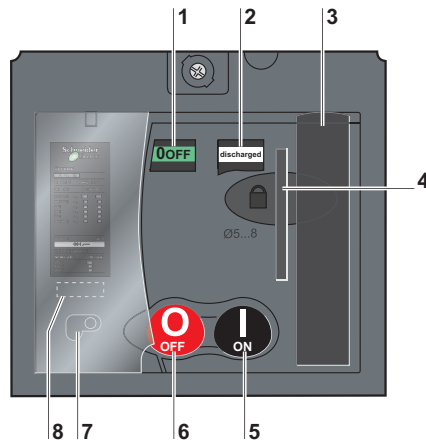
¹ For NSX cord (communication suffixes EA, EB, ED, and EE) any motor operator may be selected.
For BSCM + NSX cord (communication suffixes EB, EH, EK, and EL) only the communicating motor operator may be selected.

Motor Operator



The motor operator remotely operates the circuit breaker featuring easy and sure operation:

- All circuit breaker indications and information remain visible and accessible, including trip unit settings and circuit breaker connection
- Suitability for isolation is maintained and padlocking remains possible
- Double insulation front face



1. Contact position indicator (suitability for isolation)
2. Spring status indicator (charged, discharged)
3. Manual spring-charging handle
4. Keylock device
Locking device (off position) using one to three padlocks, diameter 0.2–0.32 in. (5–8 mm), not supplied
5. ON push button
6. OFF push button
7. Manual/auto mode selection switch; the position of the switch can be indicated remotely
8. Operation counter

Applications:

- Local motor-driven operation, centralized operation, automatic distribution control
- Normal/standby manual transfer or switching to a replacement source to optimize energy costs
- Load shedding and reconnection to optimize energy costs
- Less than five cycle closing time for source synchronization

Installation and Connection

- All installations are available for H- and J-frame circuit breakers.
All installations are available for L-frame circuit breakers except I-Line
- Connections of the motor operator module are to a built-in terminal block behind its front cover
- Stranded copper wire 14 AWG (2.5 mm²)

Automatic Operation

The motor operator is connected in series with the overcurrent trip switch (SDE).

- ON and OFF by two impulse type or continuous control signals
- Depending on the wiring, resetting can be done locally, remotely or automatically
- Mandatory manual reset following tripping due to an electrical fault (with overcurrent trip switch)

Manual Operation

- Transfer to manual mode with possibility of remote mode indication
- ON and OFF by two push buttons
- Recharging of stored-energy system by pumping the lever
- Padlocking in off position