

# Molded Case Circuit Breakers – Accessories

## Field Mountable Accessories

### Rotary Handle

A universal rotary handle is available for each frame size of molded case circuit breaker. The handles are suitable for use with NEMA 1, 12, 4 or 4x enclosures. Features include:

- Large handle easily accommodates gloves
- Global ON/OFF markings (I/ON, O/OFF) and TRIP indication on handle
- Access Handle Lock-Off by pressing arrow on handle insert
- Door interlock and defeater
- Metal shaft and base
- Pipe valve operation (ON=Vertical, OFF=Horizontal) with 90 degree rotation
- UL 489, IEC 947-1/-2, CSA



**GHMVD12B**



**HM1R12X**

Rotary Handle Accessory Selection Guide		
Part Number	Price	Description
<b>GHMVD06B</b>	<-->	NEMA 1/12 black rotary handle for G-Frame MCCB. Shaft length: 6"
<b>GHMVD12B</b>	<-->	NEMA 1/12 black rotary handle for G-Frame MCCB. Shaft length: 12"
<b>FHMVD12B</b>	<-->	NEMA 1/12 black rotary handle for F-Frame MCCB. Shaft length: 12"
<b>HM1R12X</b>	<-->	NEMA 4/4X black rotary handle for F-Frame MCCB. Shaft length: 12"
<b>HM1R24X</b>	<-->	NEMA 4/4X black rotary handle for F-Frame MCCB. Shaft length: 24"
<b>KHMVD12B</b>	<-->	NEMA 1/12 black rotary handle for K-Frame MCCB. Shaft length: 12"
<b>HM3R12X</b>	<-->	NEMA 4/4X black rotary handle for K-Frame MCCB. Shaft length: 12"
<b>HM3R24X</b>	<-->	NEMA 4/4X black rotary handle for K-Frame MCCB. Shaft length: 24"
<b>LHMVD12B</b>	<-->	NEMA 1/12 black rotary handle for L-Frame MCCB. Shaft length: 12"
<b>HM4R12X</b>	<-->	NEMA 4/4X black rotary handle for K-Frame MCCB. Shaft length: 12"
<b>HM4R24X</b>	<-->	NEMA 4/4X black rotary handle for K-Frame MCCB. Shaft length: 24"

### Flex Shaft™ Flexible Handle

Meeting crucial time limits for shutdown procedures is easier with an externally mounted handle. The flexible handle makes it possible to operate the circuit breaker externally, and can be used in enclosures of varying depths and heights. It can be used with NEMA 1, NEMA 3R and NEMA 12 enclosures, and accepts up to three padlock shackles.

*Note: A minimum bending radius of four inches is necessary for proper operation.*



**F0S03C**

Flexible Handle Accessory Selection Guide		
Part Number	Price	Description
<b>F0S03C</b>	<-->	NEMA 1/12 flexible shaft handle for G-Frame MCCB. Shaft length: 3'
<b>F0S06C</b>	<-->	NEMA 1/12 flexible shaft handle for G-Frame MCCB. Shaft length: 6'
<b>F1S03C</b>	<-->	NEMA 1/12 flexible shaft handle for F-Frame MCCB. Shaft length: 3'
<b>F1S06C</b>	<-->	NEMA 1/12 flexible shaft handle for F-Frame MCCB. Shaft length: 6'
<b>F3S03C</b>	<-->	NEMA 1/12 flexible shaft handle for K-Frame MCCB. Shaft length: 3'
<b>F3S06C</b>	<-->	NEMA 1/12 flexible shaft handle for K-Frame MCCB. Shaft length: 6'
<b>F4S04C</b>	<-->	NEMA 1/12 flexible shaft handle for L-Frame MCCB. Shaft length: 4'
<b>F4S06C</b>	<-->	NEMA 1/12 flexible shaft handle for L-Frame MCCB. Shaft length: 6'

PLC Overview

DL05/06 PLC

DL105 PLC

DL205 PLC

DL305 PLC

DL405 PLC

Field I/O

Software

C-more HMIs

Other HMI

AC Drives

Motors

Steppers/Servos

Motor Controls

Proximity Sensors

Photo Sensors

Limit Switches

Encoders

Pushbuttons/Lights

Process

Relays/Timers

Comm.

TB's & Wiring

Power

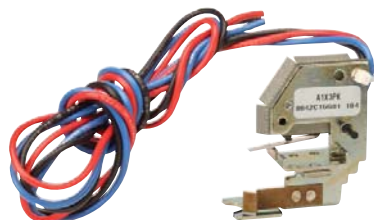
Enclosures

Appendix

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## Field Mountable Accessories



**A1X3PK**

### Auxiliary Contact

The auxiliary contact provides circuit breaker contact status information by monitoring the position of the molded cross bar which contains the moving contact arms. The auxiliary switch is used for remote indication and interlock system verification, and consists of one SPDT switch housed in a plug-in module. Each SPDT switch has one 'a' and one 'b' contact. When the circuit breaker contacts are open, the 'a' contact is open and the 'b' contact is closed.

*Note: The auxiliary contact is a pre-installed accessory on G-Frame and F-Frame breakers*

Auxiliary Contact Accessory Selection Guide		
Part Number	Price	Description
<b>A1X3PK</b>	<--->	Field installable auxiliary contact for K-Frame MCCB, SPDT, 18" pigtail leads
<b>A1X4PK</b>	<--->	Field installable auxiliary contact for L-Frame MCCB, SPDT, 18" pigtail leads

K-Frame Electrical Ratings <sup>1,2</sup>					
	Max Volts	Frequency	Max Amperes	Dielectric Withstand Voltage	Notes
<b>K-Frame Auxiliary Switch</b>	600	50/60 Hz	6	2500	1. Endurance: 5000 electrical operations plus 1000 mechanical operations. 2. Pigtail wire size: 18 AWG (0.82 mm <sup>2</sup> ) 3. Non-inductive load
	125	DC	0.50 <sup>3</sup>		
	250	DC	0.25 <sup>3</sup>		

L-Frame Electrical Ratings <sup>1,2</sup>					
	Max Volts	Frequency	Max Amperes	Dielectric Withstand Voltage	Notes
<b>L-Frame Auxiliary Switch</b>	600	50/60 Hz	6	2500	1. Endurance: 5000 electrical operations plus 1000 mechanical operations. 2. Pigtail wire size: 18 AWG (0.82 mm <sup>2</sup> ) 3. Non-inductive load
	125	DC	0.50 <sup>3</sup>		
	250	DC	0.25 <sup>3</sup>		

### Undervoltage Release



**UVH3LP21K**

This product monitors a voltage (typically a line voltage) and trips the circuit breaker when the voltage falls to between 70% and 35% of the solenoid coil rating. It consists of a continuous rated solenoid, with a plunger and tripping lever mounted in a plug-in module.

*Note: The undervoltage release is a pre-installed accessory on G-Frame and F-Frame breakers.*

Undervoltage Release Accessory Selection Guide		
Part Number	Price	Description
<b>UVH3LP08K</b>	<--->	Field installable 110 - 127 VAC undervoltage release for K-Frame MCCB
<b>UVH4LP08K</b>	<--->	Field installable 110 - 127 VAC undervoltage release for L-Frame MCCB
<b>UVH3LP21K</b>	<--->	Field installable 24 VDC undervoltage release for K-Frame MCCB
<b>UVH4LP21K</b>	<--->	Field installable 24 VDC undervoltage release for L-Frame MCCB

<b>K-Frame Undervoltage Release Mechanism</b>	Supply Voltage	Dropout Voltage		Pickup Voltage	VA	Notes
		Min	Max	Max		
	24 VDC	8.4	16.8	20.4	3.1	1. Endurance: 5000 electrical operations plus 1000 mechanical operations. 2. 50/60 Hz
110 VAC <sup>2</sup>				1.8		
120 VAC <sup>2</sup>	44.5	77.0	93.5	2.1		
127 VAC <sup>2</sup>				2.4		

<b>L-Frame Undervoltage Release Mechanism</b>	Supply Voltage	Dropout Voltage		Pickup Voltage	VA	Notes
		Min	Max	Max		
	24 VDC	8.4	16.8	20.4	3.1	1. Endurance: 5000 electrical operations plus 1000 mechanical operations. 2. 50/60 Hz
110 VAC <sup>2</sup>				1.8		
120 VAC <sup>2</sup>	44.5	77.0	93.5	2.1		
127 VAC <sup>2</sup>				2.4		

# Molded Case Circuit Breakers – Accessories

## Field Mountable Accessories

### Shunt Trip

The Shunt Trip provides remote controlled tripping of the circuit breaker. Consisting of an intermittent rated solenoid with a tripping plunger and a cutoff switch assembled to a plug-in module, shunt trip coils are designed to be applied at specific AC or DC volt-ages.



**SNT3P04K**

Shunt Trip Accessory Selection Guide		
Part Number	Price	Description
<b>SNT3P11K</b>	<--->	Field installable 110/240 VAC / 110/125 VDC shunt trip for K-Frame MCCB.
<b>SNT4RP11K</b>	<--->	Field installable 110/240 VAC shunt trip for L-Frame MCCB
<b>SNT3P04K</b>	<--->	Field installable 12/24 VAC/DC shunt trip for K-Frame MCCB
<b>SNT4RP03K</b>	<--->	Field installable 12/24 VAC/DC shunt trip for L-Frame MCCB

K-Frame Shunt Trip	Supply Voltage	Min Operating Voltage	VA	Supply Voltage	Min Operating Voltage	VA	Notes
	VAC 50/60 Hz			VDC			
	12	9	45	12	8.4	35	
24	200		24	170			
110	60	100	110	77	110		
120		120	120	77	130		
127		140	125	77	140		
208		420	—	—	—		
220		470	—	—	—		
240		550	—	—	—		

L-Frame Shunt Trip	Supply Voltage	Min Operating Voltage	VA	Supply Voltage	Min Operating Voltage	VA	Notes
	VAC 50/60 Hz			VDC			
	12	9	45	12	9	35	
24	200		24	170			
110	60	100	—	—	—		
120		120	—	—	—		
127		140	—	—	—		
208		420	—	—	—		
220		470	—	—	—		
240		550	—	—	—		

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# Molded Case Circuit Breakers – Accessories

## Field Mountable Accessories

### Six-wire Connector

This is a field installable multi-wire connector which allows six wires to be connected to the load side (OFF) end terminals. It is used to distribute the load from the circuit breaker to multiple devices without the use of separate distribution terminal blocks. UL listed for copper only as used on the load side (OFF) end. Includes mounting hardware, insulators and tin-plated aluminum connectors.



3TA100G6K

Six-wire Connector Accessory Selection Guide		
Part Number	Price	Description
3TA100G6K	<-->	For G-Frame MCCBs. Pkg. of 3. Wire size: 14 - 6 AWG, copper
3TA150F6K	<-->	For F-Frame MCCBs. Pkg. of 3. Wire size: 14 - 6 AWG, copper

### Replacement Lug Kit

Save valuable panel space and wiring time by eliminating terminal blocks. Multi-wire lug kit includes mounting hardware, insulators and tin-plated aluminum connectors to replace three mechanical load lugs. UL listed for copper only as used on the load side (OFF) end.



3TA401K

Replacement Lug Kit Accessory Selection Guide		
Part Number	Price	Description
3TA225FD	<-->	Replacement lug kit for F-Frame MCCB. Package of 3
3TA401K	<-->	Replacement lug kit for K-Frame MCCB. Package of 3
3TA603LDK	<-->	Replacement lug kit for L-Frame MCCB. Package of 3

### Din-Rail Mounting Clip

Din Rail Mount Clip Accessory Selection Guide		
Part Number	Price	Description
GDIN	<-->	Clip for mounting G-Frame to 35mm Din rail. Mounting hardware included. Pkg of 1



GDIN