3P Series Molded Case Circuit Breakers Overview

Overview

Designed to provide branch and feeder circuit protection in industrial control panels, this line of Molded Case Circuit Breakers supplies protection against overload in conductors and short circuit in connected equipment such as motors. They are UL listed for installation in UL 508 control panels. Their small size, in relation to standard circuit breakers or other comparable devices, saves panel space. Four frame sizes and all standard accessories are available.

Features

- UL489 listed performance for branch circuit overcurrent protection and disconnecting means
- Patented contact conductor designs featuring high-speed "blow-open" action, providing superior performance when high level fault currents produce extra-ordinary electromechanical forces
- · Advanced arc extinguishing technology
- Toggle handle provides three positions (on/off/tripped) along with visual indicators
- Manufactured in ISO 9000 certified facilities
- · HACR (heating, air conditioning and refrigeration) rated
- G-Frame and F-Frame breakers are suitable for reverse feed
- K-Frame and L-Frame breakers include 3-pole adjustable magnetic trip.

Note: These parts available for sale to North American locations only.

Listings

- UL 489 MCCB, File: E7819
- Field-installed accessories: UL file E64983
- CSA 22.2 No.5, File: 43556
- IEC 157-1
- NEMA Standards Pub. No. AB1-1993

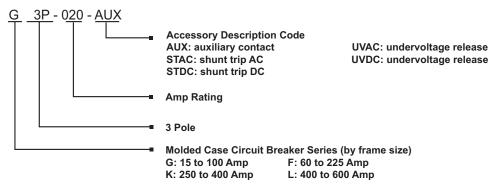


Manufactured by Eaton Corporation

	Molded Case Circuit Breakers Technical Specifications									
	Ampere Rating at		Volts		Type of	Federal	UL 489 Interrupting Ratings (rms Symmetrical Amperes) (kA)			
Circuit Breaker Type	40°C	No. Poles	AC DO	DC Trip*			Volts AC (50/60 Hz)			Volts DC
						17 0 0705	240	480	600	250**
G-Frame	15 -100	3	480	250	N.I.T.U	13b	65	22	_	10
F-Frame	60 - 225	3	600	250	N.I.T.U	22a	65	35	18	10
K-Frame	250 - 400	3	600	250	I.T.U	23a	65	35	25	10
L-Frame	400 - 600	3	600	250	I.T.U	23a	65	35	25	22

^{*}Note: N.I.T.U denotes non-interchangeable trip unit. I.T.U denotes interchangeable trip unit.

Molded Case Circuit Breakers Part Numbering System



^{**}Note: For DC or 1-phase AC applications, use the two outside poles of the 3-pole circuit breaker

3P Series Molded Case Circuit Breakers 15-100 Amp G-Frame

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G3P-040



GHMVD12B



F0S03C



3TA100G6K



G-Frame circuit breakers are available as a single unit, or with accessories pre-installed only. Accessories are not field installable on this frame size. G-Frame breakers are suitable for reverse feed use. All breakers include base mounting hardware for panel mount applications.

	G-Fr	ame Series Three Pole Mol	ded Case Circuit Brea	kers		
Part Number	Price	Description	Pre-Installed Accessories*	Ampere Rating	Voltage	Interrupt Capacity
G3P-015	\$428.00	Molded case circuit breaker with non-	None	15		
G3P-015-AUX	\$509.00	adjustable thermal magnetic trip; line and load lug terminals included.	With auxiliary contact, SPDT	15		
G3P-020	\$428.00	Molded case circuit breaker with non-	None	00		
G3P-020-AUX	\$509.00	adjustable thermal magnetic trip; line and load lug terminals included.	With auxiliary contact, SPDT	20		
G3P-025	\$428.00	Molded case circuit breaker with non-	None	25		
G3P-030	\$428.00	adjustable thermal magnetic trip; line and load lug terminals included.	None			
G3P-030-AUX	\$509.00		With auxiliary contact, SPDT			
G3P-030-STAC	\$509.00	Molded case circuit breaker with non-	With 120 VAC shunt trip	30 40 50 60	240VAC 480VAC	65kA 22kA 10kA
G3P-030-STDC	\$509.00	adjustable thermal magnetic trip; line and load lug terminals included.	With 24 VDC shunt trip			
G3P-030-UVAC	\$509.00		With 120 VAC undervoltage release			
G3P-040	\$428.00	Molded case circuit breaker with non-	None			
G3P-050	\$428.00	adjustable thermal magnetic trip; line and	None			
G3P-060	\$428.00	load lug terminals included.	None			
G3P-060-AUX	\$509.00		With auxiliary contact, SPDT			
G3P-060-STAC	\$509.00	Molded case circuit breaker with non- adjustable thermal magnetic trip; line and	With 120 VAC shunt trip			
G3P-060-STDC	\$509.00	load lug terminals included.	With 24 VDC shunt trip			
G3P-060-UVAC	\$509.00		With 120 VAC undervoltage release			
G3P-070	\$428.00	Molded case circuit breaker with non-	None	70		
G3P-080	\$428.00	adjustable thermal magnetic trip; line and	None	80		
G3P-090	\$428.00	load lug terminals included.	None	90		
G3P-100	\$428.00		None			
G3P-100-AUX	\$509.00	Molded case circuit breaker with non-	With auxiliary contact, SPDT			
G3P-100-STAC	\$509.00	adjustable thermal magnetic trip; line and	With 120 VAC shunt trip	100		
G3P-100-STDC	\$509.00	load lug terminals included.	With 24 VDC shunt trip			
G3P-100-UVAC	\$509.00		With 120 VAC undervoltage release			

*Note: Available accessories are pre-installed on G-Frame and F-Frame Molded Case Circuit Breakers. They are not field installable or interchangeable. G-frame terminals are factory-installed only. No replacement terminals available.

^{**} For DC or 1-phase AC applications, use the two outside poles of the 3-pole circuit breaker

	G-Frame Accessory Selection Guide						
Part Number	Price	Description					
GHMVD06B	\$110.00	NEMA 1/12 rotary handle for G-Frame. Position indicating; lock-off feature. Shaft length: 6"					
GHMVD12B	\$123.00	NEMA 1/12 rotary handle for G-Frame. Position indicating; lock-off feature. Shaft length: 12"					
F0S03C	\$473.00	NEMA 1/12 flex shaft cable operator for G-Frame. Flange mounted. Lockable. Cable length: 3'					
F0S06C	\$529.00	NEMA 1/12 flex shaft cable operator for G-Frame. Flange mounted. Lockable. Cable length: 6'					
3TA100G6K	\$87.00	Multi-wire connector to allow 6 wires to be connected to the G-frame. UL for copper only. 14-6AWG. Package of 3					
<u>GDIN</u>	\$15.00	DIN rail clip adapter to allow mounting of G-Frame unit on 35mm DIN rail. Pkg of 1 includes mounting hardware.					

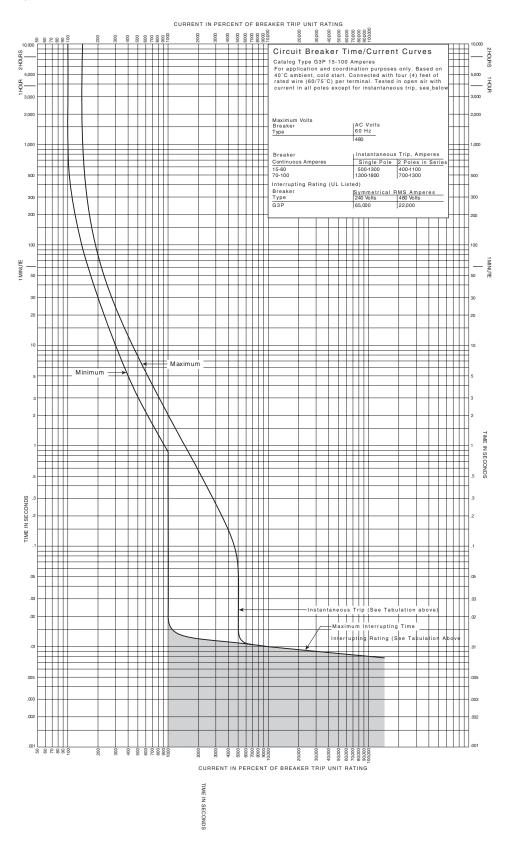
AWG Wire Range Specifications					
Circuit Breaker	Ampere Rating	Wire Type	AWG Wire Range	Metric Wire Range mm²	
G-Frame	15 - 20	Cu/Al	14 - 10	2.5 - 4	
u-riallie	25 - 100	Cu/AI	10 - 1/0	4 - 50	

G-Frame Electrical Ratings						
	Volts	Frequency	Amperes	Contact Arrangement		
G-Frame Auxiliary Switch	240 VAC	50/60 Hz	6	1a/1b - SPDT		
G-Frame Shunt Trip	120 VAC	50/60 Hz	1.1			
u-Fraine Shunt ITIP	24 VDC	DC	5.7			
	120 VAC	50/60 Hz	0.05			
G-Frame Undervoltage	Dropout Voltage		Pickup Voltage			
Release Mechanism	Min	Max	Мах			
	38.5 VAC	77.0 VAC	93.5 VAC			

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3P Series Molded Case Circuit Breakers 15-100 Amp G-Frame

Type G3P 15-100 Amperes 3 Pole

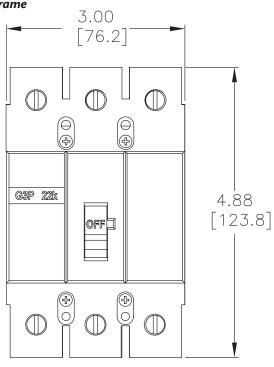


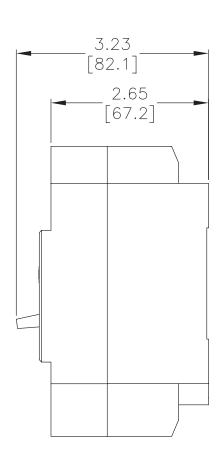
3P Series Molded Case Circuit Breakers Dimensions

Dimensions

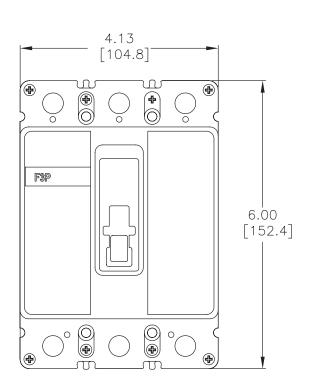
mm [inches]

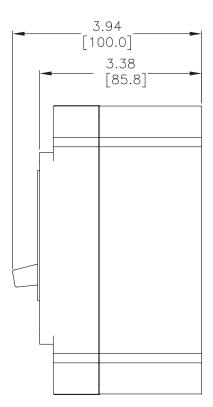
15 - 100 Amp G-Frame





60 - 225 Amp F-Frame





Field Mountable Accessories





HM1R12X



F0S03C

Rotary Handles

A rotary handle is available for each frame size of molded case circuit breaker.

The C-Series rotary handle (HM) is available for F, K, & L frame molded case breakers. These robust and durable handles include the following features:

- Suitable for use with NEMA 4/4X enclosures
- Handle, shaft, and mechanism made from all metal parts
- Large handle easily accommodates gloves
- Heavy Duty Metal locking hasp
- · Door interlock and defeater
- Standard ON/OFF/Trip markings and a 45-degree rotation
- UL 489, CSA

The Universal rotary series handles (HMV) is available for G, F, K, & L frame molded case breakers. These handles include the following features:

- Suitable for use with NEMA 1/12 enclosures
- Composite Nylon handle with metal shaft, and mechanism
- Large handle easily accommodates gloves
- · Access Handle Lock-Off by pressing arrow on handle insert
- · Door interlock and defeater
- Global ON/OFF markings (I/ON, O/OFF) and TRIP indication on handle plus 90-degree rotation
- UL 489, IEC 947-1/-2, CSA

	Rotary Handle Accessory Selection Guide					
Part Number	Price	Description				
GHMVD06B	\$110.00	NEMA 1/12 black rotary handle for G-Frame MCCB. Shaft length: 6in [152.4 mm]				
GHMVD12B	\$123.00	NEMA 1/12 black rotary handle for G-Frame MCCB. Shaft length: 12in [304.8 mm]				
FHMVD12B	\$123.00	NEMA 1/12 black rotary handle for F-Frame MCCB. Shaft length: 12in [304.8 mm]				
HM1R12X	\$173.00	NEMA 4/4X black rotary handle for F-Frame MCCB. Shaft length: 12in [304.8 mm]				
HM1R24X	\$194.00	NEMA 4/4X black rotary handle for F-Frame MCCB. Shaft length: 24in [609.6 mm]				
KHMVD12B	\$175.00	NEMA 1/12 black rotary handle for K-Frame MCCB. Shaft length: 12in [304.8 mm]				
HM3R12X	\$212.00	NEMA 4/4X black rotary handle for K-Frame MCCB. Shaft length: 12in [304.8 mm]				
HM3R24X	\$237.00	NEMA 4/4X black rotary handle for K-Frame MCCB. Shaft length: 24in [609.6 mm]				
LHMVD12B	\$202.00	NEMA 1/12 black rotary handle for L-Frame MCCB. Shaft length: 12in [304.8 mm]				
HM4R12X	\$276.00	NEMA 4/4X black rotary handle for L-Frame MCCB. Shaft length: 12in [304.8 mm]				
HM4R24X	\$292.00	NEMA 4/4X black rotary handle for L-Frame MCCB. Shaft length: 24in [609.6 mm]				

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 it accepts up to three padlock shackles. Each item includes a painted steel handle, breaker operating mechanism, and cable.

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

Flex	Shaft™	Flexible Handle Accessory Selection Guide
Part Number	Price	Description
F0S03C	\$473.00	NEMA 1/12 flex shaft cable operator for G-Frame MCCB. Cable length: 3ft [0.91 m]
F0S06C	\$529.00	NEMA 1/12 flex shaft cable operator for G-Frame MCCB. Cable length: 6ft [1.83 m]
F1S03C	\$529.00	NEMA 1/12 flex shaft cable operator for F-Frame MCCB. Cable length: 3ft [0.91 m]
F1S06C	\$573.00	NEMA 1/12 flex shaft cable operator for F-Frame MCCB. Cable length: 6ft [1.83 m]
F3S03C	\$631.00	NEMA 1/12 flex shaft cable operator for K-Frame MCCB. Cable length: 3ft [0.91 m]
F3S06C	\$662.00	NEMA 1/12 flex shaft cable operator for K-Frame MCCB. Cable length: 6ft [1.83 m]
F4S04C	\$721.00	NEMA 1/12 flex shaft cable operator for L-Frame MCCB. Cable length: 4ft [1.22 m]
F4S06C	\$829.00	NEMA 1/12 flex shaft cable operator for L-Frame MCCB. Cable length: 6ft [1.83 m]



F0S03HP

High Performance Flex Shaft™ Flange Handles

These two-position flange handles feature external front mounting. Models are available for NEMA 1/3R/12 and 4/4X enclosures and for G-frame, F-frame, K-frame or L-frame model MCCBs. All models are lockable in the OFF position and are defeatable. The Flex Shaft handle will accept up to three padlock shackles, each with a maximum diameter of 0.375 in [9.5 mm]. Each item includes a high-strength nylon handle, breaker operating mechanism, and cable.

		Flange Handle Accessory Selection Guide
Part Number	Price	Description
FOSO3HP	\$309.00	3ft [0.91 m] cable length, NEMA 1/3R/12. For use with G-frame model MCCBs.
FOSO6HP	\$352.00	6ft [1.83 m] cable length, NEMA 1/3R/12. For use with G-frame model MCCBs.
F1S03HP	\$352.00	3ft [0.91 m] cable length, NEMA 1/3R/12. For use with F-frame model MCCBs.
F1S06HP	\$379.00	6ft [1.83 m] cable length, NEMA 1/3R/12. For use with F-frame model MCCBs.
F3S03HP	\$429.00	3ft [0.91 m] cable length, NEMA 1/3R/12. For use with K-frame model MCCBs.
F3S06HP	\$450.00	6ft [1.83 m] cable length, NEMA 1/3R/12. For use with K-frame model MCCBs.
F4S04HP	\$504.00	4ft [1.22 m] cable length, NEMA 1/3R/12. For use with L-frame model MCCBs.
F4S06HP	\$580.00	6ft [1.83 m] cable length, NEMA 1/3R/12. For use with L-frame model MCCBs.
F0S03HPX	\$340.00	3ft [0.91 m] cable length, NEMA 4/4X. For use with G-frame model MCCBs.
FOSO6HPX	\$387.00	6ft [1.83 m] cable length, NEMA 4/4X. For use with G-frame model MCCBs.
F1S03HPX	\$387.00	3ft [0.91 m] cable length, NEMA 4/4X. For use with F-frame model MCCBs.
F1S06HPX	\$418.00	6ft [1.83 m] cable length, NEMA 4/4X. For use with F-frame model MCCBs.
F3S03HPX	\$473.00	3ft [0.91 m] cable length, NEMA 4/4X. For use with K-frame model MCCBs.
F3S06HPX	\$496.00	6ft [1.83 m] cable length, NEMA 4/4X. For use with K-frame model MCCBs.
F4S04HPX	\$543.00	4ft [1.22 m] cable length, NEMA 4/4X. For use with L-frame model MCCBs.
F4S06HPX	\$625.00	6ft [1.83 m] cable length, NEMA 4/4X. For use with L-frame model MCCBs.

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

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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: Field installable auxiliary contacts are not available for the G and F frame breakers.

For G and F frame auxiliary contacts, order breakers with -AUX as part of the part number. Please see G and F-frame sections for available selections.

Auxiliary Contact Accessory Selection Guide				
Part Number	Price	Description		
A1X3PK	\$310.00	Field installable auxiliary contact for K-Frame MCCB, SPDT, 18" pigtail leads		
A1X4PK	\$318.00	Field installable auxiliary contact for L-Frame MCCB, SPDT, 18" pigtail leads		

K-Frame Electrical Ratings 1,2							
	Max Volts	Frequency	Max Amperes	Dielectric Withstand Voltage	Notes		
	600	50/60 Hz	6		1. Endurance: 5000		
K-Frame Auxiliary	125	DC	0.50^{3}	2500	electrical operations plus 1000 mechanical operatons.		
Switch	250	DC	0.25 ³	2500	2. Pigtail wire size: 18 AWG (0.82 mm²) 3. Non-inductive load		

L-Frame Electrical Ratings 1,2							
	Max Volts	Frequency	Max Amperes	Dielectric Withstand Voltage	Notes		
	600	50/60 Hz	6		1. Endurance: 5000		
L-Frame Auxiliary	125	DC	0.50 ³	2500	electrical operations plus 1000 mechanical operatons.		
Switch	250	DC	0.25 ³	2300	Pigtail wire size: 18 AWG (0.82 mm²) 3. Non-inductive load		

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UVH3LP21K

Undervoltage Release

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		
UVH3LP08K	\$481.00	Field installable 110 - 127 VAC undervoltage release for K-Frame MCCB		
UVH4LP08K	\$513.00	Field installable 110 - 127 VAC undervoltage release for L-Frame MCCB		
UVH3LP21K	\$481.00	Field installable 24 VDC undervoltage release for K-Frame MCCB		
<u>UVH4LP21K</u>	\$550.00	Field installable 24 VDC undervoltage release for L-Frame MCCB		

	Supply Voltage		pout tage	Pickup Voltage	VA	Notes
K-Frame	M	Min	Max	Max		
Undervoltage Release	24 VDC	8.4	16.8	20.4	3.1	Endurance:
Mechanism	110 VAC ²	44.5			1.8	5000 electrical operations plus 1000 mechanica
	120 VAC ²		77.0	93.5	2.1	operatons.
	127 VAC ²				2.4	2. 50/60 HZ

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

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 voltages.

	Shunt Trip Accessory Selection Guide					
Part Number	Description					
SNT3P11K	\$481.00	Field installable 110/240 VAC / 110/125 VDC shunt trip for K-Frame MCCB.				
SNT4RP11K	\$550.00	Field installable 110/240 VAC shunt trip for L-Frame MCCB				
SNT3P04K	\$481.00	Field installable 12/24 VAC/DC shunt trip for K-Frame MCCB				
SNT4RP03K	\$550.00	Field installable 12/24 VAC/DC shunt trip for L-Frame MCCB				



SNT3P04

	Supply Voltage	Min Operating Voltage	VA	Supply Voltage	Min Operating Voltage	VA	Notes
	VA	C 50/60 Hz		VDC			
	12	9	45	12	8.4	35	Endurance: 5000 electrical operations plus 1000 mechanical operatons. Approx. unlatching time: 6 ms
K-Frame	24		200	24		170	
Shunt Trip	110	60	100	110	77	110	
11119	120		120	120	77	130	
	127		140	125	77	140	Approx. total circuit breaker contact
	208		420	_	-	_	opening time: 8 ms
	220		470	_	_	_	
	240		550	_	_	-]

	Supply Voltage	Min Operating Voltage	VA	Supply Voltage	Min Operating Voltage	VA	Notes
	V	AC 50/60 Hz		VDC			
	12	9	45	12	9	35	
L-Frame	24	9	200	24	9	170	Endurance: 5000 electrical operations
Shunt Trip	110	110 120 - - 127 120 - - 208 420 - - 220 470 - - 240 550 - -	100	-	-	_	plus 1000 mechanical operatons.
Πρ	120		120	_	_	_	Approx. unlatching time: 6 ms
	127		_	Approx. total circuit breaker contact opening			
	208		420	-	-	_	time: 18 ms
	220		470	_	_	_	
	240		550	_	_	_	1

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.

S	Six-wire Connector Accessory Selection Guide					
Part Number	Price	Description				
3TA100G6K	\$87.00	For G-Frame MCCBs. Pkg. of 3. Wire size: 14 - 6 AWG, copper				
3TA150F6K	\$87.00	For F-Frame MCCBs. Pkg. of 3. Wire size: 14 - 6 AWG, copper				



Multi-Wire Box Type Wiring Lug

These multi-wire lugs allow for cost and space savings within a panel and allow for improved short-circuit ratings by eliminating the need for power distribution blocks. Designed for load-side mounting. Choose for G-frame, F-frame, or K-frame model MCCBs. Mounting hardware and insulators included. Package of 3.

M	Multi-Wire Box Type Wiring Lug Selection Guide						
Part Number	Price	Description					
3TA100G3K	\$72.00	100A, 3 openings, #14-2 AWG copper only. For use with G-frame model MCCBs.					
3TA150F3K \$80.0		225A, 3 openings, #14-2 AWG copper only. For use with F-frame model MCCBs.					
3TA400K3K	\$161.00	400A, 3 openings, #14-2/0 AWG copper only. For use with K-frame model MCCBs.					
3TA400K6K	\$161.00	400A, 6 openings, #14-3 AWG copper only. For use with K-frame model MCCBs.					



3TA100G3K

Replacement Lug Kit

Line and load terminals provide wire connecting capabilities for specific ranges of continuous current ratings and wire types. Replacement lugs will accept wire types Cu/Al as standard.

R	Replacement Lug Kit Accessory Selection Guide						
Part Number	Price	Description					
3TA225FD	\$129.00	Replacement lug kit for F-Frame MCCB. Wire range (1) #4-4/0 (25-95 mm²). Package of (3) terminals.					
<u>3TA401K</u>	\$135.00	Replacement lug kit for K-Frame MCCB. Wire range (2) 2/0-250 kcmil or (1) 2/0-500 kcmil (70-240 mm²). 3-pole kit (one terminal per pole and one terminal cover).					
3TA603LDK	\$166.00	Replacement lug kit for L-Frame MCCB. 3-pole kit (one terminal per pole and one terminal cover). Wire range 400-500 AWG (185-240 m²), 2 conductors.					



3TA401K

Note: G-frame terminals are factory-installed only. No replacement terminals available.

Din Rail Mounting Clip

Din Rail Mount Clip Accessory Selection Guide					
Part Number	Price	Description			
<u>GDIN</u>	\$15.00	Clip for mounting G-Frame to 35 mm Din rail. Mounting hardware included. Pkg of 1			



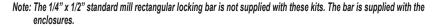
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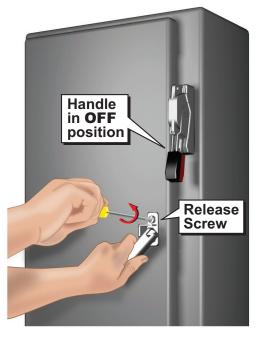
Field Mountable Accessories

NEMA 12 Safety Door Hardware

Type C361 door interlocking safety handle kits are designed for use with AutomationDirect 3P series MCCBs and flexible handle when mounted in an SDN12, or equivalent, enclosure. These handles secure the SDN12 enclosure, protecting against unauthorized entry while the MCCB is in the ON position. Use them on enclosures with right-side flanges only and material thickness from 16 gauge through 3/16 in. All mounting hardware is included for enclosures up to 40in [101.6 cm] tall. The addition of the C361KR roller kit is necessary for enclosures taller than 40in [101.6 cm] that require a 3-point latch. See SDN12 Enclosures section for enclosure specifications.

	Safety Door Hardware Selection Guide						
Part Number	Price	Description					
<u>C361KJ4</u>	\$360.00	Handle length: 4in [10.16 cm]. Mounting hardware included for enclosures up to 40in [101.6 cm] tall. For taller enclosures that require a 3-point latch, the C361KR (purchase separately) will also be needed.					
<u>C361KJ6</u>	\$378.00	Handle length: 6in [15.24 cm]. Mounting hardware included for enclosures up to 40in [101.6 cm] tall. For taller enclosures that require a 3-point latch, the C361KR (purchase separately) will also be needed.					
C361KR \$77.00		Door interlocking safety roller kit for use with the C361KJ4 and C361KJ6 safety handle kits when the SDN12 series enclosure is taller than 40in [101.6 cm] and 3-point latching is required. Kit includes roller and all hardware.					





Safety Handle shown on enclosure