

GP, FP, KP, LP and MP Frames



Definite Purpose Molded Case Circuit Breaker Family

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## Definite Purpose Molded Case Circuit Breakers

Optimized solution for HVAC/R and Pumping Applications.

### Product Overview

#### GP, FP, KP, LP and MP Frames 15–800 Amperes NEMA 480 Vac

Eaton's Definite Purpose molded case circuit breakers are available in three-pole configurations, and are designed to meet the specific requirements of HVAC/R and pumping applications.

As with other members of Eaton's family of molded case circuit breakers, Definite Purpose breakers provide high quality, reliability, unmatched performance and outstanding value.

Eaton's Definite Purpose breakers are rated from 15–800A and are available in five frame sizes. Each frame size has the same compact outside dimensions as Series C breakers.

Additionally, Definite Purpose breakers are suitable for 50°C applications and have been rigorously tested to the UL 489 standard. They are assembled in an ISO® certified facility.

#### Trip Units and Terminals

Definite Purpose breakers contain factory-sealed thermal-magnetic trip units.

The GP-Frame breaker (15–100A) includes line and load terminals and breaker mounting hardware. Frames FP (15–225A), KP (200–400A), LP (450–600A) and MP (700–800A) include mounting hardware and ship standard without lugs, offering additional flexibility.

#### External Accessories

Definite Purpose breakers use the same external accessories as Series C breakers: handle mechanisms, motor operators, lock-off devices, bus bar extensions and multiple terminal arrangements. A full complement of terminals are available to customize Definite Purpose breakers as required.

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## Molded Case Circuit Breakers

Definite Purpose

### Product Selection Guide

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### Electrical Characteristics



Breaker Type	GPS	FPS	FPH	KPS	KPH
Amperage range	15–100A	15–225A	15–225A	200–400A	200–400A
Performance level	<b>S</b>	<b>S</b>	<b>H</b>	<b>S</b>	<b>H</b>
Breaker capacity (kA rms)	240 Vac	65	65	100	65
NEMA®, UL®, CSA®	480 Vac	22	35	65	35
	600 Vac	—	18	25	35
Number of poles	3	3	3	3	3
Maximum voltage (Vac)	480	600	600	600	600
Thermal-magnetic	■	■	■	■	■

Electrical Characteristics, continued



Breaker Type	LPS		LPH		MPS		MPH	
Amperage range	450–600A		450–600A		700–800A		700–800A	
Performance level	<b>S</b>		<b>H</b>		<b>S</b>		<b>H</b>	
Breaker capacity (kA rms)	240 Vac	65	100	65	65	100	65	100
NEMA, UL, CSA	480 Vac	35	65	35	50	65	35	65
	600 Vac	25	35	25	35	25	35	25
Number of poles	3		3		3		3	
Maximum voltage (Vac)	600		600		600		600	
Thermal-magnetic	■		■		■		■	

## Features

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### Base Mounting Hardware

Metric base mounting hardware is included with each breaker. English mounting hardware is available for field installation only.

### Line and Load Terminals

Both line and load terminals are included with GP-Frame Definite Purpose breakers.

## Options

### Optional Line and Load Terminals

Compression terminals with hardware are available for a wide range of conductors. Field installation only.

### Base Mounting Hardware

Frame	Catalog Number	
	English	Metric
GP ①	—	—
FP	<b>BMH1</b>	<b>BMH1M</b>
KP	<b>BMH3</b>	<b>BMH3M</b>
LP	<b>BMH4</b>	<b>BMH4M</b>
MP	<b>BMH5</b>	<b>BMH5M</b>

### Line and Load Termination

Breaker	Termination Type	Awg Wire Range	Metric Wire Range (mm)	Wire Type	Bolt Size English	Bolt Size Metric	Torque Lb-In	Torque Nm	Catalog Number
GP	Wire	#14–1/0	2.5–50	Cu only	—	—	45	5.1	<b>Included</b>

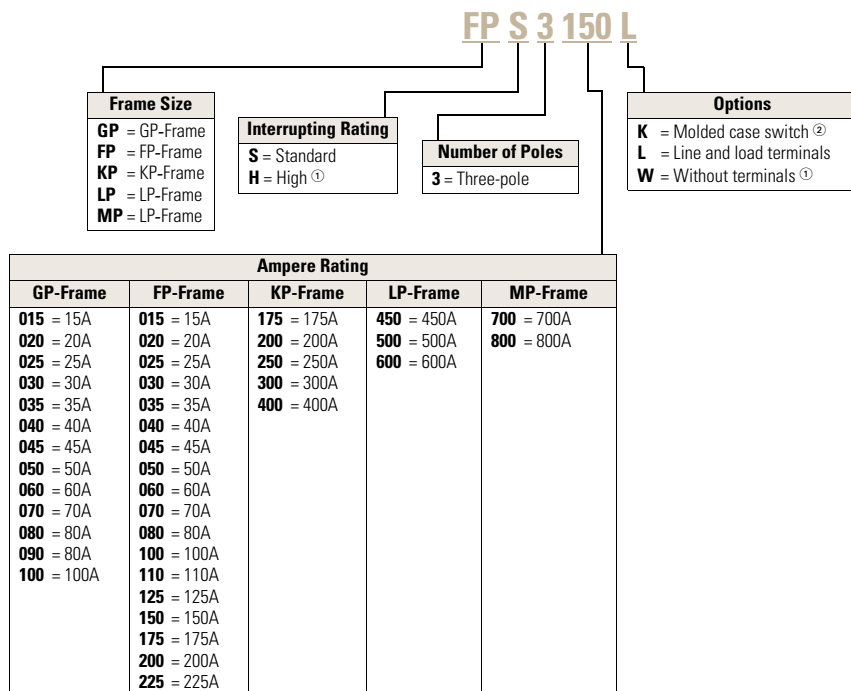
### Optional Line and Load Terminals

Breaker	Maximum Amperes	Awg Wire Range	Wire Type	Catalog Number	Catalog Number with Control Wire Termination
FP	100	#14–#10	Cu/Al	<b>3T100FB</b> ②	—
	100	#8	Cu/Al	<b>3T100FB</b> ②	—
	100	#6–#4	Cu/Al	<b>3T100FB</b> ②	—
	100	#3–4/0	Cu/Al	<b>3T100FB</b> ②	—
	200	#3–4/0	Cu only	<b>3T150FB</b> ②	—
	225	#4–4/0	Cu/Al	<b>3TA225FB</b> ②	—
KP	400	250–500 (1)	Cu/Al	<b>TA350K</b>	—
	400	3/0–250 (2)	Cu/Al	<b>3TA400K</b> ②	<b>3TA400KCW</b>
LP	500	250–350 (2)	Cu/Al	<b>TA602LD</b>	<b>TA602LDCW</b>
	600	400–500 (2)	Cu/Al	<b>3TA603LDK</b> ②	<b>3TA603LDCW</b>
MP	800	3/0–400 (3)	Cu/Al	<b>TA800MA2</b>	<b>TA800MA2CWT</b>
	800	500–750 (2)	Cu/Al	<b>TA801MA</b>	<b>TA801MACWT</b>

#### Notes

- ① Base mounting hardware, is included with GP-Frame breakers. A separate catalog number is not required.  
 ② Package of three terminals.

Catalog Number Selection



Notes

- ① Not available on GP-Frame.
- ② When choosing a molded case switch, select the highest amperage rating for the frame and the standard interrupting rating.

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## Molded Case Circuit Breakers

### Definite Purpose

#### Product Selection

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#### Catalog Numbers

When ordering Definite Purpose breakers, use the appropriate catalog numbers given below.

#### GP 100



#### GP-Frame/15–100A

##### Frame/ Ampere Rating

GP/15–100A circuit breakers

##### Three-Pole Catalog Number

GPS3015  
GPS3020  
GPS3025  
GPS3030  
GPS3035  
GPS3040  
GPS3045  
GPS3050  
GPS3060  
GPS3070  
GPS3080  
GPS3090  
GPS3100

GP/100A molded case switch

GPS3100K

#### FP 225



#### FP-Frame/15–225A

##### Frame/ Ampere Rating

FP/15–225A circuit breakers

##### Three-Pole Catalog Number

FPS3015  
FPS3020  
FPS3025  
FPS3030  
FPS3035  
FPS3040  
FPS3045  
FPS3050  
FPS3060  
FPS3070  
FPS3080  
FPS3100  
FPS3110  
FPS3125  
FPS3150  
FPS3175  
FPS3200  
FPS3225  
FPH3015  
FPH3020  
FPH3025  
FPH3030  
FPH3035  
FPH3040  
FPH3045  
FPH3050  
FPH3060  
FPH3070  
FPH3080  
FPH3100  
FPH3110  
FPH3125  
FPH3150  
FPH3175  
FPH3200  
FPH3225

FP/225A molded case switch

FPS3225K

### KP 250



### KP-Frame/200–400A

#### Frame/ Ampere Rating

KP/175–400A circuit breakers

#### Three-Pole Catalog Number

- KPS3175
- KPS3200
- KPS3250
- KPS3300
- KPS3400
- KPH3175
- KPH3200
- KPH3250
- KPH3300
- KPH3400
- KPS3400K

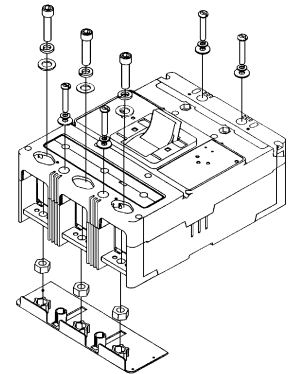
MP/400A molded case switch

### Accessories

#### End Cap Accessory Kit

End caps for line and load conductor termination are optional with each breaker. End caps secure the conductor with a ring-type connector. The kit includes one end cap, three cap screws, three nuts and three lock washers.

#### End Cap Accessory Kit



#### Series C Accessories

For internal accessories, see **Page V4-T2-303**.

For external accessories, see **Page V4-T2-334**.

### LP 400



### LP-Frame/450–600A

#### Frame/ Ampere Rating

LP/450–600A circuit breakers

#### Three-Pole Catalog Number

- LPS3450
- LPS3500
- LPS3600
- LPH3450
- LPH3500
- LPH3600

LP/600A molded case switch

LPS3600K

### Dimensions

Approximate Dimensions in Inches (mm)

All dimensions are provided for guidance and should not be used for construction purposes unless approved.

Contact Eaton for detailed outline drawings.

### GP, FP, KP, LP and MP Definite Purpose Frames

	Breaker Type				
	GP	FP	KP	LP	MP
Width	3.00 (76.2)	4.13 (104.9)	5.49 (139.4)	8.25 (209.6)	8.25 (209.6)
Height	4.88 (124.0)	6.00 (152.4)	10.12 (257.0)	10.75 (273.1)	16.00 (406.4)
Depth	2.63 (66.7)	3.38 (85.9)	4.31 (109.6)	3.81 (96.8)	4.06 (103.1)

### MP 800



### MP-Frame/700–800A

#### Frame/ Ampere Rating

MP/700–800A circuit breakers

#### Three-Pole Catalog Number

- MPS3700
- MPS3800
- MPH3700
- MPH3800
- MPS3800K

MP/800A molded case switch