

GP, FP, KP, LP and MP Frames



Definite Purpose Molded Case Circuit Breaker Family

Contents

Description	Page
Product Selection Guide	V4-T2-368
Electrical Characteristics	V4-T2-368
Features	V4-T2-370
Base Mounting Hardware	V4-T2-370
Line and Load Termination	V4-T2-370
Options	V4-T2-370
Optional Line and Load Terminals	V4-T2-370
Catalog Number Selection	V4-T2-371
Product Selection	V4-T2-372
Accessories	V4-T2-373
Dimensions	V4-T2-373

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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.

Product Selection Guide

2

Electrical Characteristics



Breaker Type	GPS	FPS	FPH	KPS	KPH
Amperage range	15–100A	15–225A	15–225A	200–400A	200–400A
Performance level	S	S	H	S	H
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	S		H	S	H
Breaker capacity (kA rms)	240 Vac	65	100	65	100
NEMA, UL, CSA	480 Vac	35	65	50	65
	600 Vac	25	35	25	35
Number of poles	3		3	3	3
Maximum voltage (Vac)	600		600	600	600
Thermal-magnetic	■		■	■	■

Features

2

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	BMH1	BMH1M
KP	BMH3	BMH3M
LP	BMH4	BMH4M
MP	BMH5	BMH5M

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	Included

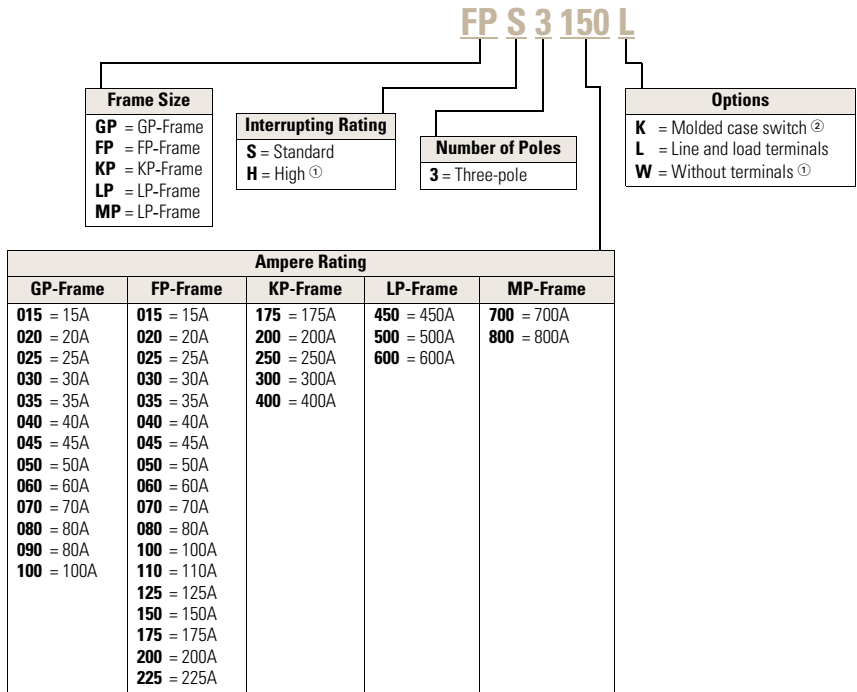
Optional Line and Load Terminals

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

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.

2.4

Molded Case Circuit Breakers

Definite Purpose

Product Selection

2

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

MP/400A molded case switch

KPS3400K

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

MP 800



MP-Frame/700–800A

Frame/ Ampere Rating

MP/700–800A circuit breakers

Three-Pole Catalog Number

MPS3700

MPS3800

MPH3700

MPH3800

MP/800A molded case switch

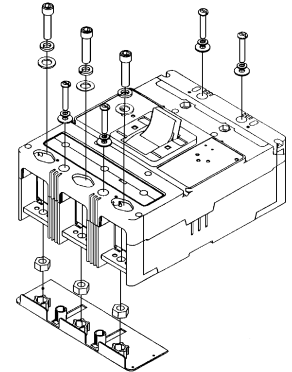
MPS3800K

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**.

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)