

# Operating handle solutions for Power Defense breakers



Eaton's new offering of Power Defense™ rotary and flex shaft handle mechanisms are built for high performance in any application.

The newly designed (variable depth) rotary handles are fully rated for NEMA® 1/12/3R/4/4X and feature easy installation, functional safety features for door and padlock interlocks, and robust construction for reliable operation in harsh environments.

The flange-mount flex shaft handle option features the same tried and true, dependable design available in either the NEMA 1/12/3R or NEMA 4/4X option and has been re-tooled to be compatible with the Power Defense front cover.

## Used in control panels for industrial machinery

- Pumps and compressors
- Conveyors and material handling equipment
- Mixers and grinders

## Rotary handle mechanisms— available options and features

### *Direct mount rotary*

- Black or emergency red
- Three padlock lockoff slots
- Extra padlock on mechanism (option)
- Door interlock (option)
- NEMA 1/12 rated

### *Through-the-door variable depth rotary*

- Black or emergency red
- Three padlock lockoff slots
- Extra padlock on mechanism (option)
- Door interlock built in to handle
- NEMA 1/12/3R/4/4X rated
- NFPA®79 compliant handle option
- Shaft sold separately

### *Metal variable depth rotary*

- Available for PD2, 3, 4 and 5
- Standard or emergency red
- Three padlock lockoff slots
- Door interlock built in to handle
- NEMA 1/12/3R/4/4X rated

## Flange mount flex shaft options

- Available with metal or high-performance handles
- Available as NEMA 1/3R/12 or NEMA 4/4X
- Lockoff slots available in on and off position
- Includes hardware for door interlock

**Note:** There is limited cross compatibility between Power Defense and Legacy breakers and handles. PD1 and EG-Frame accessories are cross compatible; PD5 and NG accessories are cross compatible; PD6 and RG accessories are cross compatible. PD2, 3, 4 breakers must use the Power Defense accessories.



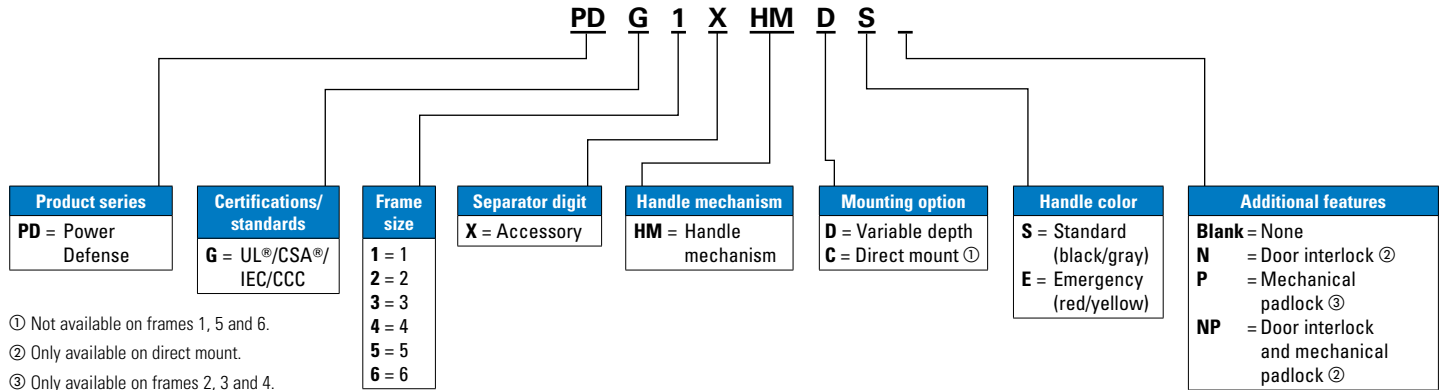
Powering Business Worldwide



## Variable depth and direct mount rotary handle mechanism

Variable depth rotary handle mechanism: Frames 1–6

Direct rotary handle mechanism: Frames 2–4



## NFPA 79 compliant

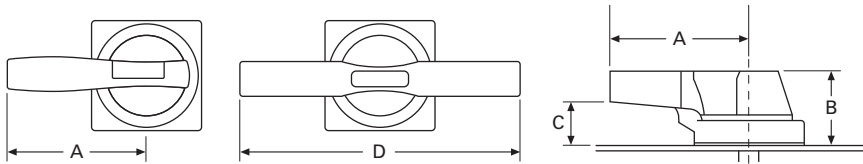
Frame	Catalog number
1 and 2	PDG12XHM79S
3 and 4	PDG34XHM79S

**Note:** Change “S” to “E” for emergency yellow/red option.



## Variable depth rotary shafts

Frame	Shaft length in inches (mm)	Catalog number
1 and 2	12.00 (305)	PDG12XHMS307
	20.00 (508)	PDG12XHMS507
3 and 4	9.00 (229)	PDG34XHMS245
	17.00 (432)	PDG34XHMS445
5 and 6	12.00 (305)	PDG56XHMD305

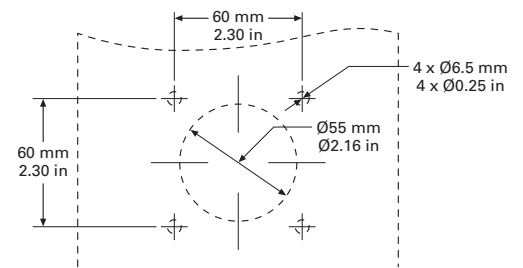


## Power Defense handle dimensions in inches (mm)

Frame	A	B	C	D T (if applicable)
PD2	1.25 (32)	2.63 (67)	—	—
PD3 and 4	5.25 (133)	3.63 (92)	2.38 (60)	—
PD5	7.25 (184)	3.63 (92)	2.38 (60)	—
PD6	7.25 (184)	3.63 (92)	2.38 (60)	14.25 (362)

## Power Defense mounting pattern

Drilling dimensions of enclosure door

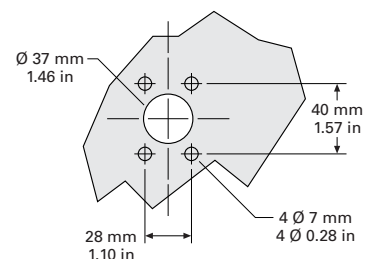


## Legacy high-performance handle dimensions in inches (mm)

Frame	A	B	C	D T (if applicable)
S01	1.61 (41)	1.73 (44)	—	—
S2	4.92 (125)	1.77 (45)	—	—
S3	8.26 (210)	2.40 (61)	—	—
S4	—	2.36 (60)	—	13.78 (350)

## Legacy high-performance mounting pattern

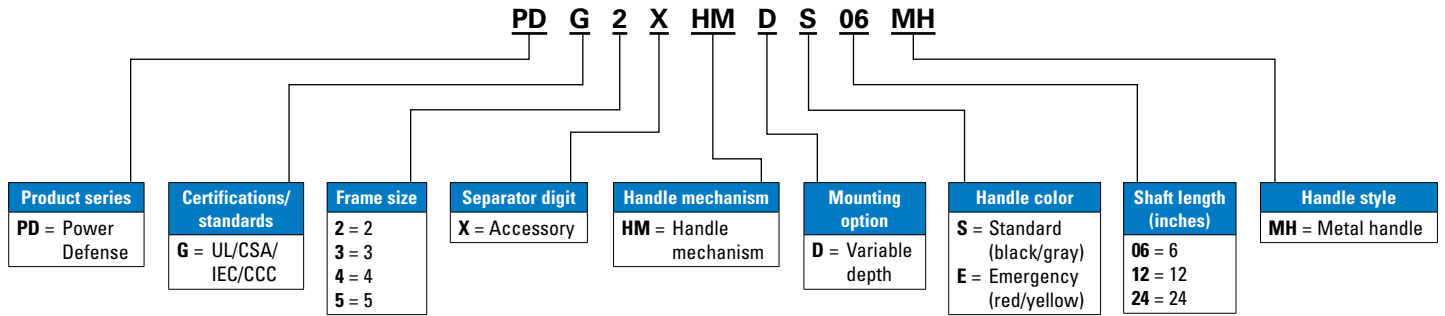
Door drilling





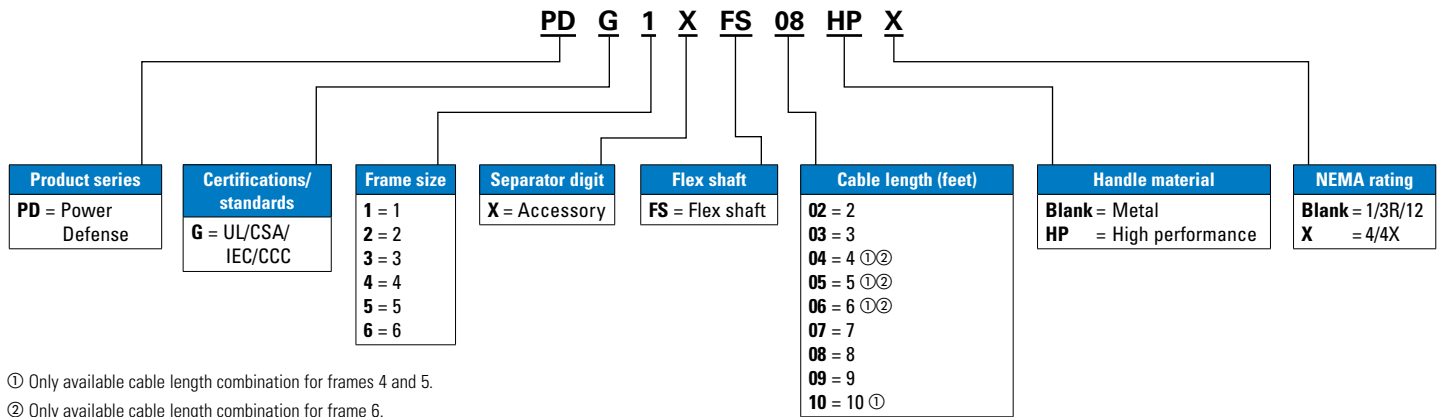
### Metal variable depth rotary handle mechanism

Metal variable depth rotary handle mechanism: Frames 2–5



### Flex shaft handle mechanism

Flex shaft handle mechanism: Frames 1–6





### Eaton's Power Defense handle mechanism installation videos

- Detailed step-by-step installation instructions
- Animated, easily recognizable parts to ensure correct installation



### Eaton's Power Defense breaker product selectors

- Web interface to assist in breaker detail selection
- Adjusts for mobile access
- Downloadable 2D and 3D models in over 80 different formats
- Downloadable technical data sheets

**Eaton**  
1000 Eaton Boulevard  
Cleveland, OH 44122  
United States  
Eaton.com

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For more information,  
call **1-877-ETN-CARE (1-877-386-2273)**  
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