

Power Defense molded case circuit breakers



PD **G** 3 3 M 0400 TFA J XXXXX

Certifications	Frame	Poles ① ②	Interrupting ratings ANSI values listed in kAIC								Continuous current rating	Trip units (#A values detailed in PXR table)	
			C	F	G	K	M	N	P	T			
			240 Vac	25	35	65	85	100	150	200			200
			480 Vac	18	25	35	50	65	85	100			150
			600 Vac ⑦	10	14	18	25	35	50	65			65
			600 Vac ⑧	10	14	18	22	25	30 ⑨	35 ⑨			
			125 Vdc		10		35	42					
			250 Vdc		35		42	50					
					35		50	65					
Thermal magnetic													
G UL/CSA/CCC/IEC	1	1, 2, 3, 4, 0		C	F	G	K	M (CL)	N (CL) ④	P (CL) ⑤	0015, 0020, 0025, 0030, 0035, 0040, 0045, 0050, 0060, 0070, 0080, 0090, 0100, 0110, 0125	TFF, VFF	
G UL/CSA/CCC/IEC	2	1			F	G	K	M	N ⑥	P ⑥	0015, 0020, 0025, 0030, 0035, 0040, 0045, 0050, 0060, 0070, 0080, 0090, 0100, 0110, 0125, 0150	TFF, VFF	
G UL/CSA/CCC/IEC	2	2 ③, 3, 4, 6, 0			F	G	K (CL)	M (CL)	N (CL)	P (CL)	0015, 0020, 0025, 0030, 0035, 0040, 0045, 0050, 0060, 0070, 0080, 0090, 0100, 0110, 0125, 0150, 0175, 0200, 0225	TFF, VFF	
D UL/CSA rated up to 240 Vac	2	2, 3			F	G	K	M	N	P	0015, 0020, 0025, 0030, 0035, 0040, 0045, 0050, 0060, 0070, 0080, 0090, 0100, 0110, 0125, 0150, 0175, 0200, 0225	TFF, VFF	
G UL/CSA/CCC/IEC	3	2, 3, 4, 6, 0			F	G	K	M (CL) ①	N (CL)	P (CL)	0100, 0125, 0150, 0175, 0200, 0225, 0250, 0300, 0350, 0400, 0500, 0600	TFA, VFA	
D UL/CSA rated up to 240 Vac	3	2, 3			F	G	K	M	N	P	0100, 0125, 0150, 0175, 0200, 0225, 0250, 0300, 0350, 0400, 0500, 0600	TFA, VFA	
G UL/CSA/CCC/IEC	4	2, 3, 4, 6, 0				G	K	M			0300, 0350, 0400, 0450, 0500, 0600, 0700, 0800	TFA, VFA	
Electronic trip unit													
G UL/CSA/CCC/IEC	2	3, 4			F	G	K (CL)	M (CL)	N (CL)	P (CL)	0060, 0100, 0150, 0225	B2N, E##, P##	
G UL/CSA/CCC/IEC	3	3, 4			F	G	K	M (CL) ①			0125, 0250, H250, 0400, H400, 0600 ②	B2N, E##, P##	
G UL/CSA/CCC/IEC	4	2, 3, 4			F	G	K				0800	B2N, E##, P##	
G UL/CSA/CCC/IEC	5	2, 3, 4					K	M	N	P	0800, 1200	E##, P##	
G UL/CSA/CCC/IEC	6	2, 3, 4						M	N	P	1600, 2000, 2500	E##, P##	
100% rated													
F UL (100% rated)/CSA/CCC/IEC	2	3, 4			F	G	K (CL)	M (CL)	N (CL)	P (CL)	0060, 0100, 0150, 0225	B2N, E##, P##	
F UL (100% rated)/CSA/CCC/IEC	3	2, 3, 4, 6, 0			F	G	K	M (CL) ①			H250, H300, H350, H400, 0500, 0600 ③	TFA	
		3, 4			F	G	K	M (CL) ①			0125, 0250, H250, 0400, H400, 0600 ③	B2N, E##, P##	
F UL (100% rated)/CSA/CCC/IEC	4	3, 4				G	K	M			0800	B2N, E##, P##	
F UL (100% rated)/CSA/CCC/IEC	5	3, 4					K	M	N	P	0800, 1200	E##, P##	
F UL (100% rated)/CSA/CCC/IEC	6	3, 4						M	N	P	1600, 2000	E##, P##	
Molded case switches													
G UL/CSA/CCC/IEC	1	3, 4					G		M		0125	KNS	
G UL/CSA/CCC/IEC	2	2 ③, 3, 4					G		M		0100, 0150, 0225	KNS	
G UL/CSA/CCC/IEC	3	2, 3, 4					G		M		0400, 0600	KNS	
G UL/CSA/CCC/IEC	4	2, 3, 4					G		M		0800	KNS	
G UL/CSA/CCC/IEC	5	3, 4						K	M		0800, 1200	KNS	
G UL/CSA/CCC/IEC	6	3, 4							M		1600, 2000	KNS	
DC breakers													
K	1	3			F		K	M			0025, 0030, 0035, 0040, 0045, 0050, 0060, 0070, 0080, 0090, 0100	TFF	
K	2	1, 2, 3			F		K	M			0015, 0020, 0025, 0030, 0035, 0040, 0045, 0050, 0060, 0070, 0080, 0090, 0100, 0125, 0150, 0175, 0200, 0225	TFF	
K	3	3			F		K	M			0100, 0125, 0150, 0175, 0200, 0225, 0250, H250, 0300, H300, 0350, H350, 0400, H400, 0500, 0600	TFA, LFA	
K	4	3			F		K	M			0300, 0350, 0400, 0450, 0500, 0600, 0700, 0800	TFA, LFA	
K	5	3			F		K	M			0800, 0900, 1000, 12200	TFN	
K	6	3			F		K	M			1600, 2000, 2500, 3000	TFN	

Note: The interrupting rating of individual frames may vary; consult the specific frame information for exact ratings.

- 1 For four-pole thermal-magnetic breakers, 4 = 100% neutral protection; 6 = 60% neutral protection; 0 = 0% neutral protection.
- 2 Neutral protection is programmable to 0%, 60% and 100% for all PXR trip units; use 4 to order.
- 3 Two-pole PD62 breakers are not offered with ETU.
- 4 For PDG1, N and P interrupting ratings available on three- and four-pole breakers.
- 5 Single-pole N and P interrupting ratings only available to 30 A.
- 6 H as the leading character of the ampacity indicates a high instantaneous version of the breaker for coordination purposes. H ratings must use 600 A frame.
- 7 PD-3, PD-4, PD-5 and PD-6 ratings.
- 8 PD-1 and PD-2 ratings. PD-1 rated for 347/600 V applications. PD-2 rated for 600 V applications.
- 9 PD-2 N and P interrupting ratings with PXR trip units rated to 25 kA at 600 V.
- 10 PD72 breakers may be configured only with specific terminals, using J (Standard) or W (non AT) for digit 14. However, when using J for 225 A, the oversized terminal presented as T will be used. Other terminals are as presented for J and W.
- 11 PD-3 M interrupting ratings breakers are current limiting for the 400 A frame only; 400 A and 600 A frames are current limiting for N and P interrupting ratings.
- 12 Frame 1 available at 500 Vdc.
- 13 PD-2 two-pole MCS is not CCC certified.



Product selector and technical data

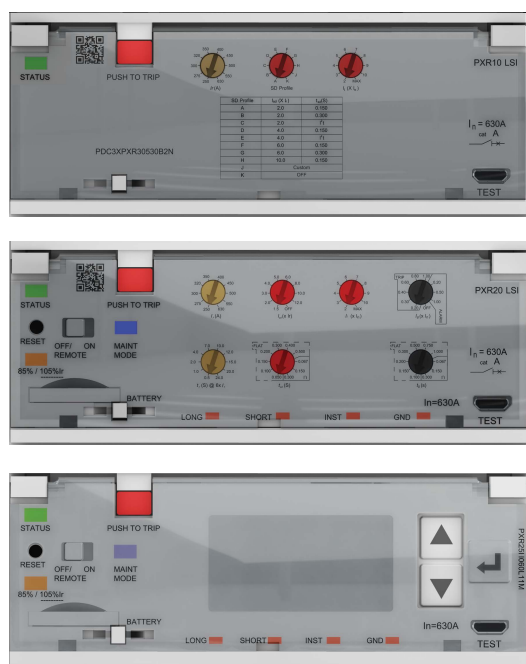
Scan the QR code for additional assistance in selecting a breaker or to obtain data sheets and 2D or 3D drawings.

You can also visit our website at **Eaton.com/PowerDefense**



Powering Business Worldwide

Complete catalog number may be up to 20 characters.
 Characters 15, 16, 17, 18, 19 and 20 may be used to define internal accessories provided with the breaker.
 See Eaton catalog for specific frame information.



Power Xpert Release (PXR) trip units

- Breaker health for diagnostics and predictive maintenance
- Communications and energy metering at 1% accuracy level
- Zone selective interlocking (ZSI) with local and remote indication
- Programmable relays for situational awareness and flexibility
- Programmable Arcflash Reduction Maintenance System™ (ARMS)
- Power Xpert Protection Manager software for setup and testing

T F A Thermal-magnetic trip units

Type	Character 11	Thermal type	Character 12	Magnetic type	Character 13
TMTU	T	Fixed	F	Fixed	F
TMTU—50 °C (not UL)	V			Adjustable	A

P 5 M Power Xpert Release (PXR) trip units

		# ₁ = Protection type (character 12)				# ₂ = Available configured options (character 13)							
PXR ETU (character 11)		LSI	LSIG	LSI with ARMS	LSIG with ARMS	Relays	Relays	Relays	Relays	Relays	Relays	Relays	Relays
						—	Modbus	ZSI	—	ZSI	—	Modbus	ZSI
						None	—	—	—	CAM	—	—	—
PXR 10	B	2				N							
PXR 20	E	2				N	R	M	Z	C	W	X	
			3	4	5		R	M	Z	C	W	X	
PXR 25	P	2	3	4	5			M			W		D Y

Note:
Only M or W #, available for frame 5 and frame 6.
Relays—Form A contacts programmable for external indication.
Modbus—Modbus RTU directly from trip unit.
ZSI—Zone selective interlocking
CAM—CAM Link for connection to external communications adapter module (CAM); contact product line or catalog for ordering information.
Character 13 affects available space for other internal accessories.

Available continuous current I_c settings on PXR electronic trip units

	Setting	PD-2					PD-3					PD-4	PD-5		PD-6			
		1	60 A	100 A	150 A	225 A	125 A	250 A	400 A	600 A	800 A	800 A	1200 A	1600 A	2000 A	2500 A		
PXR 10	1	15 A	32 A	50 A	80 A	225 A	45 A	90 A	160 A	250 A	320 A	320 A	500 A	700 A	1000 A	1600 A		
PXR 20	2	16 A	35 A	60 A	90 A	250 A	50 A	100 A	175 A	275 A	350 A	350 A	550 A	800 A	1100 A	1700 A		
	3	20 A	40 A	63 A	100 A	250 A	60 A	110 A	200 A	300 A	400 A	400 A	600 A	900 A	1200 A	1800 A		
	4	25 A	50 A	70 A	110 A	250 A	63 A	125 A	225 A	320 A	450 A	450 A	630 A	1000 A	1250 A	1900 A		
	5	30 A	60 A	80 A	125 A	250 A	70 A	150 A	250 A	350 A	500 A	500 A	700 A	1100 A	1400 A	2000 A		
	6	35 A	63 A	90 A	150 A	250 A	80 A	160 A	275 A	400 A	550 A	550 A	800 A	1200 A	1600 A	2100 A		
	7	40 A	70 A	100 A	160 A	250 A	90 A	175 A	300 A	450 A	600 A	600 A	900 A	1250 A	1700 A	2200 A		
	8	45 A	80 A	110 A	175 A	250 A	100 A	200 A	320 A	500 A	630 A	630 A	1000 A	1400 A	1800 A	2300 A		
	9	50 A	90 A	125 A	200 A	250 A	110 A	225 A	350 A	550 A	700 A	700 A	1100 A	1500 A	1900 A	2400 A		
	10	60 A	100 A	150 A	225 A	250 A	125 A	250 A	400 A	600 A	800 A	800 A	1200 A	1600 A	2000 A	2500 A		
PXR 25		Programmable from minimum to maximum values in 1 A increments										Programmable from minimum to maximum values in 10 A increments						

Type	Character 11	Thermal type	Character 12	Magnetic type	Character 13
Molded case switch	K	None	N	Molded case switch	S
Frame only	F	None	N	None	N

Frame	Terminal options	Continuous current range	Standard		Alternate		Non-aluminum		StrandAble	
			J—Line and load K—Line only L—Load only	AWG & [mm²] Wire range	T—Line and load U—Line only V—Load only	AWG & [mm²] Wire range	W—Line and load Y—Line only Z—Load only	AWG & [mm²] Wire range	A—Line and load B—Line only C—Load only	AWG & [mm²] Wire range
1	N S, D, E J, K, L T, U, V	15–125 A	Box (steel)	14–3/0 [2.08–85]	Tunnel (Al)	14–1/0 [2.08–53.5]	N/A	N/A	N/A	N/A
2	N S, D, E J, K, L T, U, V W, Y, Z	Up to 50 A	Box (steel)	14–1/0 [2.08–53.5]	Tunnel (Al)	14–4 [2.08–21.2]	Box (st. steel)	4–4/0 [21.2–107]	N/A	N/A
		50–100 A			Tunnel (Al)	14–1/0 [2.08–53.5]				
		110–150 A	Tunnel (Al)	4–4/0 [21.2–107]	Tunnel (Al)	14–4/0 [2.08–107]	Tunnel (Cu)	4–4/0 [21.2–107]		
		175–200 A			Tunnel (Al) Ⓢ	6–300 [13.3–152]				
		200–225 A								
3	N S, D, E J, K, L T, U, V W, Y, Z A, B, C	100–225 A	Tunnel (Al)	3–350 [26.7–177]	Tunnel (Al)	500–750 [253–380]	Tunnel (Cu)	6–350 [13.3–177]	Tunnel (Al)	(2) 3/0–250 (2) [85–127]
		250–350 A	Tunnel (Al)	250–500 [127–253]			Tunnel (Cu)	250–500 [127–253]		
		400 A	Tunnel (Al)	(2) 3/0–250 [21.85–127]			Tunnel (Cu)	(2) 3/0–250 [21.85–127]		
		H250–H400 A	Tunnel (Al)	500–750 [253–380]	Tunnel (Al)	3–500 [26.7–253]	Tunnel (Cu)	500–750 [253–380]	Tunnel (Al)	(2) 2–500 [21.85–253]
		450–600 A	Tunnel (Al)	(2) 2–500 [21.85–253]	N/A	N/A	Tunnel (Cu)	(2) 2–500 [21.85–253]		
4	N S, D, E J, K, L T, U, V W, Y, Z A, B, C	300–600 A	Tunnel (Al)	(2) 1–500 (2) [42.4–253]	Tunnel (Al)	(2) 500–750 (2) [253–380]	Tunnel (Cu)	(2) 2/0–500 (2) [67.4–253]	Tunnel (Al)	(2) 3/0–400 (2) [85–203]
		700 A					Tunnel (Cu)	(3) 3/0–300 (3) [85–152]		
		800 A	Tunnel (Al)	(3) 3/0–400 (3) [85–203]						
5	N, M	800 A	Tunnel (Al)	(3) 3/0–400 (3) [85–203]	Tunnel (Al)	(3) 500–750 (3) [253–380]	Tunnel (Cu)	(3) 3/0–500 (3) [85–253]	Tunnel (Al)	(4) 4/0–500 (4) [107–253]
		1200 A	Tunnel (Al)	(4) 4/0–500 (4) [107–253]			Tunnel (Cu)	(4) 3/0–400 (4) [85–203]		
6	N, M	1600 A	Tunnel (Al)	(4) 500–1000 (4) [253–507]	N/A	N/A	Tunnel (Cu)	(4) 1–600 (4) [42.4–304]	N/A	N/A
		2000 A	Tunnel (Al)	(6) 2–600 (6) [33.6–304]			N/A	N/A		
		2500 A	N/A	N/A						

Notes:
Wire capacity is based on standard imperial wire sizes; metric sizes provided in table are a direct conversion to demonstrate maximum capacity, not to denote metric wire sizes. Other options and configurations are available. Consult with product line or terminal offering literature.

For PD-1 through PD-4, No Terminals and Screw Terminals (end cap kit) are also available:

N—No terminals
S—Line and load side screw terminals
D—Line side only screw terminals
E—Load side only screw terminals

For PD-5 and PD-6, only configuration on Digit 14 is No Terminals.

N—No terminals (Imperial tapped terminals)—Default option
M—No terminals (metric tapped terminals)

Accessories may also be configured for factory installation by adding Digits 15–20 to the catalog number. If no accessories are needed, Digits 15–20 default to NNNNNN, but are not required for order entry. Consult catalog or product selector tool for additional details.