

Price List

MCB, RCD, SPDs & Distribution Boards

Smart Solutions for electrical distribution in residential, commercial and industrial application



With effect from 10th April, 2023



EATON

Powering Business Worldwide

About **EAT•N**

Eaton is a global leading power management company headquartered in USA, serving customers across the world. Our proven technologies enable customers to generate more power using fewer resources, answering the demands of today's fast changing world. Eaton products and services provide the power inside thousands of products and projects – from energy efficient buildings, cities, infrastructure to next generation aircraft, cars, trucks and machines. Eaton is a Fortune 500 company recognized amongst the most admired firms in our industry.

Eaton Power Quality Private Limited, India, is a 100% subsidiary and a part of electrical sector of Eaton Corporation. We are catering to every industrial segment with versatile solutions which includes Switchgear: LV & MV Solutions, Fusegear: LV & MV solutions, UPSs and software solutions.

Operating in
175
countries

92,000+
employees

100+
years of
experience

\$ 20.8
BILLION IN
SALES 2022

18,000+
patents

The Fusion Of Our Heritage

Meeting power management needs around the world

US-focused power distribution and control business	Power quality and datacenter market	Global geographic expansion	Built scale	Extended capabilities
 		 		     
1979	1994	2004	2008	2013
2019 - 2021				



Toll free number: 1800 425 5758, 1800 102 4620 Emergency number : 893 922 2522

✉ helpdeskelectrical@eaton.com

w.e.f from 10th April 2023

Eaton's Product Range

Low Voltage Distribution Products

Air Circuit Breakers	PSL / IZM
Molded Case Circuit Breakers	PDC / NZM / BZMx
Disconnectors	P / PN
Mining Duty Breakers	
ATS	



Contactors

Mini Contactors & Control Relays	DILEM / DILEEM / DILER
Control Relays & Power Contactors	DILM / DILA
Vacuum Contactors	DILM / DILH /V201
4 Pole Contactors	DILMP
Capacitor Duty Contactors	DILK
DC Mill Duty Contactors	
DC Power Contactors	
Definite Purpose Contactors	



Overload Relays

Thermal Magnetic Overload Relay	ZB/ZE/ZEB
Electronic Overload Relay	Motor Insight, C440
Thermistor Based Overload Relays	EMT6



Motor Protection Circuit Breakers (MPCB)

MPCB with Push Button Control	PKZM01
MPCB with Rotary Handle Control	PKZM0
MPCB with Electronic Release	PKE



Low Voltage Control Products

Pilot Devices (22.5mm & 16mm)	RMQTitan (M22) / A22
Pilot Devices (30.5mm)	E30/E34/10250T
Foot & Palm Switch	FAK
Signal Towers	SL
Pressure Switches	MCS
Position Switches / Safety Switches ...	LS
Sensors	Inductive / Capacitive / Optical
Limit Switches	Precision / Mini / Metal / Metal-IP67 / Hazardous Applications



Eaton's Product Range

Cam Switches & Switch - Disconnectors

Cam Switches upto 132KW.....	T
Switch-Disconnector upto 110KW/315A	P
ATEX Rated Enclosures	T/P



Electronic Relays

Safety Relay	ESR5
Safety Control Relays	Easy Safety
Timing Relays	ETR2 / ETR4
Measuring & Monitoring Relays	EMR



Automation Products

Relays	Easy500/700/800
PLC's	XC / EC4
HMI/ HMI-PLC's	XVC
Smartwire Darwin Communication System	



Motor Starters

DOL / RDOL Starter upto 32A with PKZM0	
DOL / RDOL Starter upto 32A with PKE	
Soft Starters upto 900KW.....	S8014/S8114
Variable Speed Starter	DE1
Variable Speed Drive	DG1/DF1/DV1



Enclosures

IP65, Outdoor rated Polycarbonate Opaque/Transparent ...	CI /CI-K
MCB Individual Enclosure	AE...
MCCB / Switch Disconnector	MCCB...
Fuse Enclosure	RS..



Solar Products

Air Circuit Breakers upto 4000A, 690V/800V/1140V/1500V AC	
Moulded Case Circuit Breakers upto 1600A, 800V/1000V AC	
Miniature Circuit Breakers upto 63A, 500V DC/1000V DC	
Disconnectors upto 60A, 1000V DC rated	
Disconnectors, 160A - 1400A, 1500V DC rated	
Fuse & Fuse Base, 1000V DC	
Inverters upto 1MW	
DC Combiner Boxes	



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Contents

Miniature Circuit Breaker

Type PLSM	6-7
Isolator	7
Type PLHT	8
Type PLS6 DC & PL10 DC	8

Residual Current Devices

RCCB PFIM Type AC	9
RCCB PFIM Type A	9
RCBO Type PKNM Type AC	10
Add-on RCD Unit - PBSM Type AC	11
Add-on RCD Unit - PBHT Type AC	11

Digital RCD **NEW**

Residual Current Devices FRCdM Type G/A	12
---	----

Arc Fault Detection Device **NEW** 13 |

Protective Devices

Manual Motor Starter Z-MS	14
Power Limiter Z-TS	14

Accessories 15-16 |

Surge Protection Device (SPD) 17-18 |

Neutral Failure Device / Overvoltage Protective Device 19 |

xBoard ETN Series 20-22 |

PV-Application

DC Switch Disconnecter	23
DC Circuit Breaker	23

Miniature Circuit Breakers for Industrial applications

Type "FAZ" with UL Certifications	24
Type "FAZ-NA" with UL Certifications	25

The Eaton Advantage

Miniature Circuit Breaker



3 Position Mounting Clip: Easy & Quick maintenance

- Allows installation & removal of MCB/other modular devices without removing the busbar and other devices



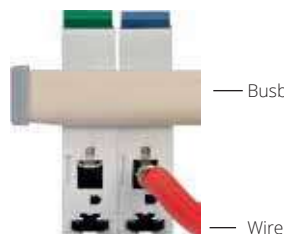
Insulated Sliding Shutter: Safe and Secure termination

- Acts as guide for quick and secure termination
- Makes it impossible for wire to miss the terminal while wiring
- Insulated shutter prevents accidental contact - enhanced safety and system reliability



True Contact Position Indicator: Safe to operate, always

- Enables visual indication of true position of main contacts
- Ensure high degree of safety during fault conditions: Welded Main Contact/Dolly Free
- True Contact Indication



Bi Connect Terminals: Ease of wiring

- Allows secure termination of busbars and cables simultaneously
- Looping possible without danger of loose wiring



Remote Operation and automatic resetting

- Remote operation
- Automatic restart in the event of undesired tripping



Unique colour for each rating: Appealing Aesthetics and Easy Identification

- Colour knobs provided for better aesthetics & designer look when mounted inside acrylic door distribution board.
- The rating of MCB installed is easily identifiable by distinctive dolly colours.

Miniature Circuit Breaker

Type PLSM 

Specifications

- Rated current: 0.5 A to 63 A
- Rated voltage AC: 230/415V, DC: 48V (per pole)
- Tripping Characteristics B, C, D
- Low let-through energy
- Bi connect option on load or line
- Endurance: 20,000 operations
- Full range of accessories: shunt, UV, auxiliary



Rated Current (A)	1P		2P		3P		4P	
	Part No. Article No.	Unit MRP	Part No. Article No.	Unit MRP	Part No. Article No.	Unit MRP	Part No. Article No.	Unit MRP
C Curve 10kA								
1	PLSM-C1 242191	750	PLSM-C1/2 242390	1750	PLSM-C1/3 242459	2750	PLSM-C1/4 242597	3760
2	PLSM-C2 242194	653	PLSM-C2/2 242393	1546	PLSM-C2/3 242462	2456	PLSM-C2/4 242600	3157
3	PLSM-C3 242196	750	PLSM-C3/2 242395	1750	PLSM-C3/3 242464	2750	PLSM-C3/4 242602	3760
4	PLSM-C4 242198	653	PLSM-C4/2 242397	1546	PLSM-C4/3 242466	2456	PLSM-C4/4 242604	3157
5	PLSM-C5 242199	750	PLSM-C5/2 242398	1750	PLSM-C5/3 242467	2456	PLSM-C5/4 242605	3760
6	PLSM-C6 242200	358	PLSM-C6/2 242399	1102	PLSM-C6/3 242468	1824	PLSM-C6/4 242606	2482
10	PLSM-C10 242202	358	PLSM-C10/2 242401	1102	PLSM-C10/3 242470	1824	PLSM-C10/4 242608	2482
16	PLSM-C16 242206	358	PLSM-C16/2 242405	1102	PLSM-C16/3 242474	1824	PLSM-C16/4 242612	2482
20	PLSM-C20 242207	358	PLSM-C20/2 242406	1102	PLSM-C20/3 242475	1824	PLSM-C20/4 242613	2482
25	PLSM-C25 242208	358	PLSM-C25/2 242407	1102	PLSM-C25/3 242476	1824	PLSM-C25/4 242614	2482
32	PLSM-C32 242209	358	PLSM-C32/2 242408	1102	PLSM-C32/3 242477	1824	PLSM-C32/4 242615	2482
40	PLSM-C40 242210	813	PLSM-C40/2 242409	1803	PLSM-C40/3 242478	2862	PLSM-C40/4 242616	3659
50	PLSM-C50 242211	813	PLSM-C50/2 242410	1803	PLSM-C50/3 242479	2862	PLSM-C50/4 242617	3659
63	PLSM-C63 242212	813	PLSM-C63/2 242411	1803	PLSM-C63/3 242480	2862	PLSM-C63/4 242618	3659
B Curve 10kA								
6	PLSM-B6 242174	364	PLSM-B6/2 242373	1102	PLSM-B6/3 242442	1824	-	-
10	PLSM-B10 242176	364	PLSM-B10/2 242375	1102	PLSM-B10/3 242444	1824	PLSM-B10/4 242582	2482
16	PLSM-B16 242180	364	PLSM-B16/2 242379	1102	PLSM-B16/3 242448	1824	PLSM-B16/4 242586	2482
20	PLSM-B20 242181	364	PLSM-B20/2 242380	1102	PLSM-B20/3 242449	1824	PLSM-B20/4 242587	2482
25	PLSM-B25 242182	364	PLSM-B25/2 242381	1102	PLSM-B25/3 242450	1824	-	-
32	PLSM-B32 242183	364	PLSM-B32/2 242382	1102	PLSM-B32/3 242451	1824	PLSM-B32/4 242589	2482
40	PLSM-B40 242184	813	PLSM-B40/2 242383	1803	PLSM-B40/3 242452	2862	PLSM-B40/4 242590	3659
50	PLSM-B50 242185	813	PLSM-B50/2 242384	1804	PLSM-B50/3 242453	2862	-	-
63	PLSM-B63 242186	813	PLSM-B63/2 242385	1804	PLSM-B63/3 242454	2862	PLSM-B63/4 242592	3659

*MRP - Maximum Retail Price Inclusive of all taxes including GST. For further details on product contact nearest Eaton Sales Office.

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Miniature Circuit Breaker

Rated Current (A)	1P		2P		3P		4P	
	Part No. Article No.	Unit MRP	Part No. Article No.	Unit MRP	Part No. Article No.	Unit MRP	Part No. Article No.	Unit MRP
D Curve 10kA								
6	PLSM-D6 242223	519	PLSM-D6/2 242422	1290	PLSM-D6/3 242491	2054	PLSM-D6/4 242629	2745
10	PLSM-D10 242225	519	PLSM-D10/2 242424	1290	PLSM-D10/3 242493	2054	PLSM-D10/4 242631	2745
16	PLSM-D16 242229	519	PLSM-D16/2 242428	1290	PLSM-D16/3 242497	2054	PLSM-D16/4 242635	2745
20	PLSM-D20 242230	519	PLSM-D20/2 242429	1290	PLSM-D20/3 242498	2054	PLSM-D20/4 242636	2745
25	PLSM-D25 242231	519	PLSM-D25/2 242430	1290	PLSM-D25/3 242499	2054	PLSM-D25/4 242637	2745
32	PLSM-D32 242232	519	PLSM-D32/2 242431	1290	PLSM-D32/3 242500	2054	PLSM-D32/4 242638	2745
40	PLSM-D40 242233	1006	PLSM-D40/2 242432	2194	PLSM-D40/3 242501	3226	PLSM-D40/4 242639	3954
50	PLSM-D50 113094	1006	PLSM-D50/2 113098	2194	PLSM-D50/3 113152	3226	PLSM-D50/4 113156	3954
63	PLSM-D63 113095	1006	PLSM-D63/2 113099	2194	PLSM-D63/3 113153	3226	PLSM-D63/4 Y7-113157	3954

Main Load Disconnectors Switch (Isolator) IS

Specifications

- Load break switch with isolating function
- Design according to IEC/EN 60947-3
- Highly wear resistant contact
- Quick make, black toggle
- Terminal capacity 50 mm²
- Insulated sliding shutter
- Double break mechanism



Rated Current (A)	1 Pole			2 Pole			3 Pole			4 Pole		
	Part No.	Article No.	Unit MRP	Part No.	Article No.	Unit MRP	Part No.	Article No.	Unit MRP	Part No.	Article No.	Unit MRP
16	IS-16/1	276254	780	IS-16/2	276255	877	IS-16/3	276256	1536	IS-16/4	276257	1800
20	IS-20/1	276258	780	IS-20/2	276259	877	IS-20/3	276260	1536	IS-20/4	276261	1800
25	IS-25/1	276262	780	IS-25/2	276263	877	-	-	-	IS-25/4	276265	1800
32	IS-32/1	276266	780	IS-32/2	276267	877	IS-32/3	276268	1407	IS-32/4	276269	1800
40	-	-	-	IS-40/2	276271	877	IS-40/3	276272	1408	IS-40/4	276273	1800
63	IS-63/1	276274	882	IS-63/2	276275	1040	IS-63/3	276276	1670	IS-63/4	276277	1964
80	IS-80/1	276278	882	IS-80/2	276279	1400	-	-	-	IS-80/4	276281	2751
100	IS-100/1	276282	*	IS-100/2	276283	1538	IS-100/3	276284	2168	IS-100/4	276285	2882
125	IS-125/1	276286	*	IS-125/2	276287	1620	IS-125/3	276288	2240	IS-125/4	276289	2945

Note: * Price on request

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Miniature Circuit Breaker

Type PLHT

Specifications

- Peak with stand voltage U_{imp} 4kV
- Rated current up to 125A
- Tripping characteristics B,C, D

- Rated Voltage AC: 230/415V, DC: 60V (per pole)
- Rated breaking capacity up to 63A: 25KA, 80A to 100A: 20 KA, 125 A: 15 KA according to IEC/EN 60947-2
- Accessories: shunt trip, auxiliary switch, anti-tamper device.
- Endurance: 20,000 operations Terminal Capacity: 2.5 - 50 mm²



C Curve

Rated Current (A)	1 P			2 P			3 P			4 P		
	Part No.	Article No.	Unit MRP	Part No.	Article No.	Unit MRP	Part No.	Article No.	Unit MRP	Part No.	Article No.	Unit MRP
20A	PLHT-C20	247981	4236	PLHT-C20/2	248007	8888	PLHT-C20/3	248033	13332	PLHT-C20/4	248085	17800
25A	PLHT-C25	247982	4236	PLHT-C25/2	248008	8888	PLHT-C25/3	248034	13332	PLHT-C25/4	248086	17776
32A	PLHT-C32	247983	4236	PLHT-C32/2	248009	8890	PLHT-C32/3	248035	13332	PLHT-C32/4	248087	17800
40A	PLHT-C40	247984	4236	PLHT-C40/2	248010	8888	PLHT-C40/3	248036	13350	PLHT-C40/4	248088	17800
50A	PLHT-C50	247985	4236	PLHT-C50/2	248011	8888	PLHT-C50/3	248037	13332	PLHT-C50/4	248089	17776
63A : 25kA	PLHT-C63	247986	4236	PLHT-C63/2	248012	8888	PLHT-C63/3	248038	13332	PLHT-C63/4	248090	17776
80A : 20kA	PLHT-C80	247987	3966	PLHT-C80/2	248013	8333	PLHT-C80/3	248039	12500	PLHT-C80/4	248091	16665
100A : 20kA	PLHT-C100	247988	4114	PLHT-C100/2	248014	8646	PLHT-C100/3	248040	12975	PLHT-C100/4	248092	17298
125A : 15kA	PLHT-C125	247989	4340	PLHT-C125/2	248015	9345	PLHT-C125/3	248041	14014	PLHT-C125/4	248093	18689

• Prices for B, D Curve MCBs are available upon request • 3 P+N on request

Type PLS6 DC and PL10 DC



Specifications

- Rated current up to 50A
- Rated voltage DC: 250V per pole, $t=4$ ms
- 2 poles connected in series DC: 500V
- 4P DC - Current Rating : 16A, 25A ,32A, 40A and 50A ; Rated Voltage: 1000V DC
- Rated breaking capacity 10kA acc. to IEC/EN 60947-2
- Tripping Characteristics C
- Connections as per polarity marking on the product

Rated Current (A)	1 Pole			2 Pole			4 Pole		
	Part No.	Article No.	Unit MRP	Part No.	Article No.	Unit MRP	Part No.	Article No.	Unit MRP
1	PLS6-C1-DC	243115	988	PLS6-C1/2-DC	243128	2074			
2	PLS6-C2-DC	243116	988	PLS6-C2/2-DC	243129	2074			
3	PLS6-C3-DC	243117	988	PLS6-C3/2-DC	243130	2074			
4	PLS6-C4-DC	243118	988	PLS6-C4/2-DC	243131	2074			
6	PLS6-C6-DC	243119	826	PLS6-C6/2-DC	243132	1744			
10	PLS6-C10-DC	243120	826	PLS6-C10/2-DC	243133	1744			
16	PLS6-C16-DC	243122	826	PLS6-C16/2-DC	243135	1744	PL10-C16/4-DC-IN	CBE00213	3688
20	PLS6-C20-DC	243123	826	PLS6-C20/2-DC	243136	1744			
25	PLS6-C25-DC	243124	826	PLS6-C25/2-DC	243137	1744	PL10-C25/4-DC-IN	CBE00214	3688
32	PLS6-C32-DC	243125	826	PLS6-C32/2-DC	243138	1744	PL10-C32/4-DC-IN	CBE00215	3688
40	PLS6-C40-DC	243126	1247	PLS6-C40/2-DC	243139	2624	PL10-C40/4-DC-IN	CBE02465	5508
50	PLS6-C50-DC	243127	1247	PLS6-C50/2-DC	243140	2624	PL10-C50/4-DC-IN	CBE02466	5508

w.e.f from 10th April 2023

Residual Current Devices

RCCB PFIM



Specifications

- Design according to IEC/EN 61008
- Rated current: 16-100A, Rated voltage: 230/415V, 50 Hz
- Rated tripping current: 30,100,300,500mA
- Rated short circuit strength: 4-10 kA
- Sensitivity: AC & pulsating DC
- Type: AC, A,G, G/A, R, S, S/A, U,X
- PFIM-U for frequency converter proof applications
- PFIM-X for backup protection
- True Contact position flag indicator
- Automatic re-setting possible
- Comprehensive range of accessories
- Endurance: 20,000 operation
- For Commercial & Industrial applications

Rated Current (A)	mA	2 Pole			4 Pole		
		Part No.	Article No.	Unit MRP	Part No.	Article No.	Unit MRP
Conditionally surge current-proof 250 A, type AC							
25	30	PFIM-25/2/003	235390	4066	PFIM-25/4/003	235406	5508
	100	PFIM-25/2/01	235391	4196	PFIM-25/4/01	235407	5632
	300	PFIM-25/2/03	235392	4320	PFIM-25/4/03	235408	5767
40	30	PFIM-40/2/003	235394	4720	PFIM-40/4/003	235410	5632
	100	PFIM-40/2/01	235395	4855	PFIM-40/4/01	235411	5767
	300	PFIM-40/2/03	235396	4979	PFIM-40/4/03	235412	5897
63	30	PFIM-63/2/003	235398	5767	PFIM-63/4/003	235414	6286
	100	PFIM-63/2/01	235399	5967	PFIM-63/4/01	235415	6556
	300	PFIM-63/2/03	235400	6156	PFIM-63/4/03	235416	6620
80	30	PFIM-80/2/003	235402	7900	PFIM-80/4/003	235418	9742
	100	PFIM-80/2/01	235403	8500	PFIM-80/4/01	235419	9882
	300	PFIM-80/2/03	235404	9180	PFIM-80/4/03	235420	9882
100	30	PFIM-100/2/003	102821	10396	PFIM-100/4/003	102823	11675
	100	PFIM-100/2/01	102874	10530	PFIM-100/4/01	102824	11815
	300	PFIM-100/2/03	102822	10666	PFIM-100/4/03	102825	11950
Conditionally surge current-proof 250A, sensitive to residual pulsating DC, type A							
16	30	PFIM-16/2/003-A	235423	7522	-	-	-
25	30	PFIM-25/2/003-A	235424	7522	PFIM-25/4/003-A	235435	7965
	100	PFIM-25/2/01-A	235425	7522	PFIM-25/4/01-A	235436	7966
	300	PFIM-25/2/03-A	235426	7520	PFIM-25/4/03-A	235437	7965
40	30	PFIM-40/2/003-A	235427	8705	PFIM-40/4/003-A	235439	9742
	100	PFIM-40/2/01-A	235428	8705	PFIM-40/4/01-A	235440	9742
	300	PFIM-40/2/03-A	235429	8706	PFIM-40/4/03-A	235441	9750
63	30	PFIM-63/2/003-A	235431	8850	PFIM-63/4/003-A	235443	9963
	100	PFIM-63/2/01-A	235432	8850	PFIM-63/4/01-A	235444	9966
	300	PFIM-63/2/03-A	235433	8850	PFIM-63/4/03-A	235445	9966
80	30	-	-	-	PFIM-80/4/003-A	235447	15487
	300	-	-	-	PFIM-80/4/03-A	235448	15487
100	30	-	-	-	PFIM-100/4/003-A	102829	16968
	100	PFIM-100/2/01-A	102827	16234	PFIM-100/4/01-A	102870	16968
	300	PFIM-100/2/03-A	102828	16234	PFIM-100/4/03-A	102871	16980

- 500 mA is available on request
- RCD with type G, S, R, U, X are available upon request
- Surge Current-proof 3kA, type G available on request

w.e.f from 10th April 2023

Residual Current Devices

RCBO Type AC - PKNM & FRBm



Specifications

- Rated breaking capacity: 6kA & 10kA
- Design according to IEC/EN 61009
- Rated current: 2A-40A
- Characteristics: B,C
- Sensitivity: 10, 30, 100, 300mA
- Rated Voltage AC: 230 V, 50 Hz
- Type: AC, A, G, S
- Operational voltage range: 196 - 253 V
- 3 position DIN rail clip, permits easy removal from existing busbar
- Terminal capacity: 1 - 25mm²
- Endurance: 20,000 operations
- For Commercial & Industrial applications

Rating (A)	mA	Characteristics B			Characteristics C		
		Part No.	Article No.	Unit MRP	Part No.	Article No.	Unit MRP
Conditionally surge current-proof 250 A, type AC							
2	10	FRBm6-B2/1N/001	178104	13020	FRBmM-C2/1N/001	170979	12664
4		FRBm6-B4/1N/001	178112	13020	FRBmM-C4/1N/001	170980	12664
6		FRBmM-B6/1N/001	170971	12550	FRBmM-C6/1N/001	170981	12220
10		FRBmM-B10/1N/001	170972	12550	FRBmM-C10/1N/001	170982	12220
16		FRBmM-B16/1N/001	170974	12550	FRBmM-C16/1N/001	170984	12220
2	30	FRBm6-B2/1N/003	178105	7578	FRBmM-C2/1N/003	170532	7378
4		FRBm6-B4/1N/003	178113	7578	FRBmM-C4/1N/003	170533	7378
6		PKNM-6/1N/B/003	236007	6048	PKNM-6/1N/C/003	236017	5886
10		PKNM-10/1N/B/003	236067	6048	PKNM-10/1N/C/003	236077	5886
16		PKNM-16/1N/B/003	236200	6048	PKNM-16/1N/C/003	236212	5886
20		PKNM-20/1N/B/003	236235	6048	PKNM-20/1N/C/003	236245	5886
25		PKNM-25/1N/B/003	236265	6048	PKNM-25/1N/C/003	236275	5886
32		PKNM-32/1N/B/003	236295	6050	PKNM-32/1N/C/003	236305	5886
40	PKNM-40/1N/B/003	236324	7196	PKNM-40/1N/C/003	236334	7004	
2	100	FRBm6-B2/1N/01	178106	7652	FRBmM-C2/1N/01	170672	7450
4		FRBm6-B4/1N/01	178114	7652	FRBmM-C4/1N/01	170673	7450
6		FRBmM-B6/1N/01	170656	6508	FRBmM-C6/1N/01	170674	6334
10		FRBmM-B10/1N/01	170657	6508	FRBmM-C10/1N/01	170675	6334
16		FRBmM-B16/1N/01	170659	6508	FRBmM-C16/1N/01	170677	6334
20		FRBmM-B20/1N/01	170660	6508	FRBmM-C20/1N/01	170678	6334
25		FRBmM-B25/1N/01	170661	6507	FRBmM-C25/1N/01	170679	6334
32		FRBmM-B32/1N/01	170662	7196	FRBmM-C32/1N/01	170680	7004
40	FRBmM-B40/1N/01	170663	7200	FRBmM-C40/1N/01	170681	7004	
2	300	FRBm6-B2/1N/03	178107	7652	FRBmM-C2/1N/03	170561	7450
4		FRBm6-B4/1N/03	178119	7652	FRBmM-C4/1N/03	170562	7450
6		PKNM-6/1N/B/03	236009	6120	PKNM-6/1N/C/03	236019	5962
10		PKNM-10/1N/B/03	236069	6120	PKNM-10/1N/C/03	236079	5960
16		PKNM-16/1N/B/03	236202	6120	PKNM-16/1N/C/03	236214	5960
20		PKNM-20/1N/B/03	236237	6107	PKNM-20/1N/C/03	236247	5960
25		PKNM-25/1N/B/03	236267	6107	PKNM-25/1N/C/03	236277	5960
32		PKNM-32/1N/B/03	236297	6270	PKNM-32/1N/C/03	236307	6107
40	PKNM-40/1N/B/03	236326	7190	PKNM-40/1N/C/03	236336	7004	

#Conditionally surge current-proof 250 A, sensitive to residual pulsating DC, type "A" is available.....

*Please contact nearest Eaton office for Price.

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Residual Current Devices

Add-on RCD Unit - PBSM

Specifications

- Add-on residual current unit
- Line voltage-independent tripping
- Rated current 40 and 63A
- By combining this device with a miniature circuit breaker type PLSM, a RCBO unit (combined RCD/MCB device) is formed



Rating (A)	mA	2 Pole			4 Pole		
		Part No.	Article No.	Unit MRP	Part No.	Article No.	Unit MRP
Conditionally surge current-proof 250 A, type AC							
40	30	PBSM-402/003	262323	4855	PBSM-404/003	262568	7403
	100	PBSM-402/01	262324	4855	PBSM-404/01	262569	7403
	500	PBSM-402/05	262326	6710	PBSM-404/05	262571	8750
	1000	PBSM-402/1	262327	6710	PBSM-404/1	262572	8750
63	30	PBSM-632/003	262426	5940	PBSM-634/003	262590	8770
	100	PBSM-632/01	262427	5940	PBSM-634/01	262591	8770
	300	PBSM-632/03	262428	5940	PBSM-634/03	262592	8770
	500	PBSM-632/05	262429	6970	PBSM-634/05	262595	10760
	1000	PBSM-632/1	262431	6970	PBSM-634/1	262596	10760

- Prices for RCD with type A, G, S are available upon request

Add-on RCD Unit - PBHT

Specifications

- Add-on residual current unit (screw connection) for 80 or 125A (2-pole and 4-pole)
- By combining this device with a miniature circuit breaker type PLHT a RCBO unit (combined RCD/MCB device) is formed
- For subsequent mounting onto 2,3, 3+N and 4-pole-miniature circuit breakers PLHT
- For commercial and industry applications



Rating (A)	mA	2 Pole			4 Pole		
		Part No.	Article No.	Unit MRP	Part No.	Article No.	Unit MRP
Conditionally surge current-proof 250 A, type AC							
80	30	PBHT-80/2/003	248818	18630	PBHT-80/4/003	248826	27170
	300	PBHT-80/2/03	248820	18630	PBHT-80/4/03	248828	27170
	500	PBHT-80/2/05	248822	18630	PBHT-80/4/05	248831	27170
	1000	PBHT-80/2/1	248824	18630	PBHT-80/4/1	248834	27170
125	30	PBHT-125/2/003	248799	18630	PBHT-125/4/003	248807	27170
	300	PBHT-125/2/03	248801	18630	PBHT-125/4/03	248809	27170
	500	PBHT-125/2/05	248803	30810	PBHT-125/4/05	248812	34080
	1000	PBHT-125/2/1	248805	30810	PBHT-125/4/1	248815	34080

w.e.f from 10th April 2023

Digital RCD



- Line voltage independent RCCB for fault or additional protection with additional digital features.
- System Monitoring: Preventive information / warning before the RCD trips in case of leakage currents
 - Integrated auxiliary contact
 - Local Indication
- New level of accuracy -> reduced unwanted tripping
- Yearly test interval
- Comprehensive range of accessories
- Real contact position indicator
- Fault current tripping indicator
- Automatic re-setting possible
- Transparent designation plate

Residual Current Devices FRCdM Type G/A Surge current-proof 3 kA, sensitive to residual pulsating DC, Type G/A

4 Pole			
$I_n / \Delta n$ (A)	Type Designation	Article No.	Units per package
25/0.03	FRCdM-25/4/003-G/A	168646	1/30
25/0.3	FRCdM-25/4/03-G/A	168647	1/30
40/0.03	FRCdM-40/4/003-G/A	168648	1/30
40/0.3	FRCdM-40/4/03-G/A	168649	1/30
63/0.03	FRCdM-63/4/003-G/A	168650	1/30
63/0.3	FRCdM-63/4/03-G/A	168651	1/30
80/0.03	FRCdM-80/4/003-G/A	168634	1/30
80/0.3	FRCdM-80/4/03-G/A	168635	1/30

• Prices for RCD with type A, G, S are available upon request • Digital 2P RCBO available upon request

Digital RCD Mechanism

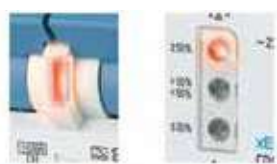
The LEDs set off an alarm when fault currents or a shut down are coming. This makes the troubleshooting faster and much easier. The service mode of the fault current protection switch quickly indicates the extent of the flowing fault current in milliamp increments. By pushing the service button, the blinking LED identifies the area where the fault current is located in.

- Mains voltage-independent residual current protection and additional protection with other digital functions
- Auto-reclosure is possible



Red

When the red LED lights up, the leakage current is already higher than 50 percent of the nominal fault current. Therefore the system is in a critical status - the digital RCCB only trip when the fault current continues to rise



Yellow

The yellow LED shows a residual current in the ambit of 30 to 50 percent of the nominal fault current. Before the system is shut down, professional countermeasures can be taken.



Green

If the current flow in the system to ground is in the ambit from 0 to 30 percent of the nominal fault current, the green LED indicates the proper status.



w.e.f from 10th April 2023

Arc Fault Detection Device (AFDD+)



- Electric fire protective device acc. to IEC/EN-62606
- Detects and quenches arc faults in final circuits
- Fully combined with residual current circuit breaker (RCCB) and miniature circuit breaker (MCB)
- 2-pole: Both clearances between open contacts are protected
- Variable installation of Neither left or right
- Rated currents from 10 to 40 A
- Contact position indicator red – green
- Tripped indication: MCB, RCCB or AFDD
- LED indication for arc faults
- Permanent self-monitoring
- Overvoltage and overheat monitoring
- Guide for secure terminal connection
- 3-position DIN rail clip, permits removal from existing busbar system
- Comprehensive range of accessories suitable for subsequent installation
- 10 and 30 mA rated residual currents
- Tripping characteristics B, C
- Rated breaking capacity up to 10 kA upto 25A and 6kA for 32A and 40A
- Type AC & A

AFDD+ - AC Type

B Curve			C Curve		
Rating	Type Designation	Article No.	Rating	Type Designation	Article No.
6/0.01	-	-	6/0.01	AFDD-6/2/C/001	300205
10/0.01	AFDD-10/2/B/001	187164	10/0.01	AFDD-10/2/C/001	187170
13/0.01	AFDD-13/2/B/001	187176	13/0.01	AFDD-13/2/C/001	187182
16/0.01	AFDD-16/2/B/001	187200	16/0.01	AFDD-16/2/C/001	187206
6/0.03	-	-	6/0.03	AFDD-6/2/C/003	300197
10/0.03	AFDD-10/2/B/003	187167	10/0.03	AFDD-10/2/C/003	187173
13/0.03	AFDD-13/2/B/003	187179	13/0.03	AFDD-13/2/C/003	187185
16/0.03	AFDD-16/2/B/003	187203	16/0.03	AFDD-16/2/C/003	187209
20/0.03	AFDD-20/2/B/003	187218	20/0.03	AFDD-20/2/C/003	187221
25/0.03	AFDD-25/2/B/003	187224	25/0.03	AFDD-25/2/C/003	187227
*32/0.03	AFDD-32/2/B/003	187230	*32/0.03	AFDD-32/2/C/003	187233
*40/0.03	AFDD-40/2/B/003	187236	*40/0.03	AFDD-40/2/C/003	187239

AFDD+ - A Type

B Curve			C Curve		
Rating	Type Designation	Article No.	Rating	Type Designation	Article No.
6/0.01	-	c	6/0.01	AFDD-6/2/C/001-A	300206
10/0.01	AFDD-10/2/B/001-A	187165	10/0.01	AFDD-10/2/C/001-A	187171
13/0.01	AFDD-13/2/B/001-A	187177	13/0.01	AFDD-13/2/C/001-A	187183
16/0.01	AFDD-16/2/B/001-A	187201	16/0.01	AFDD-16/2/C/001-A	187207
6/0.03	-	-	6/0.03	AFDD-6/2/C/003-A	300199
10/0.03	AFDD-10/2/B/003-A	187168	10/0.03	AFDD-10/2/C/003-A	187174
13/0.03	AFDD-13/2/B/003-A	187180	13/0.03	AFDD-13/2/C/003-A	187186
16/0.03	AFDD-16/2/B/003-A	187204	16/0.03	AFDD-16/2/C/003-A	187210
20/0.03	AFDD-20/2/B/003-A	187219	20/0.03	AFDD-20/2/C/003-A	187222
25/0.03	AFDD-25/2/B/003-A	187225	25/0.03	AFDD-25/2/C/003-A	187228
*32/0.03	AFDD-32/2/B/003-A	187231	*32/0.03	AFDD-32/2/C/003-A	187234
*40/0.03	AFDD-40/2/B/003-A	187237	*40/0.03	AFDD-40/2/C/003-A	187240

*Breaking Capacity – 6kA



Type F, G, G/A, G, OL available on request

Price on request



w.e.f from 10th April 2023

Protective Devices

Manual Motor Starter Z-MS

	Poles	Setting Range (A)	Type Designation	Article No.	Unit MRP
	2	0.10 - 0.16	Z-MS-0.16/2	248389	2950
	2	0.16 - 0.25	Z-MS-0.25/2	248390	2950
	2	0.25 - 0.40	Z-MS-0.4/2	248391	2950
	2	0.40 - 0.63	Z-MS-0.63/2	248392	2950
	2	0.63 - 1.00	Z-MS-1/2	248393	2950
	2	1.00 - 1.60	Z-MS-1.6/2	248394	2950
	2	1.60 - 2.50	Z-MS-2.5/2	248395	2950
	2	2.50 - 4.00	Z-MS-4/2	248396	2950
	2	4.00 - 6.30	Z-MS-6.3/2	248397	2950
	2	6.30 - 10.0	Z-MS-10/2	248398	2950
	2	10.0 - 16.0	Z-MS-16/2	248399	2950
	2	16.0 - 25.0	Z-MS-25/2	248400	2950
	2	25.0 - 40.0	Z-MS-40/2	248401	2950
	3	0.10 - 0.16	Z-MS-0.16/3	248402	3700
	3	0.16 - 0.25	Z-MS-0.25/3	248403	3700
	3	0.25 - 0.40	Z-MS-0.4/3	248404	3700
	3	0.40 - 0.63	Z-MS-0.63/3	248405	3700
	3	0.63 - 1.00	Z-MS-1/3	248406	3700
	3	1.00 - 1.60	Z-MS-1.6/3	248407	3700
	3	1.60 - 2.50	Z-MS-2.5/3	248408	3700
	3	2.50 - 4.00	Z-MS-4/3	248409	3700
	3	4.00 - 6.30	Z-MS-6.3/3	248410	3700
	3	6.30 - 10.0	Z-MS-10/3	248411	3700
	3	10.0 - 16.0	Z-MS-16/3	248412	3700
	3	16.0 - 25.0	Z-MS-25/3	248413	3800
	3	25.0 - 40.0	Z-MS-40/3	248414	4250

Power Limiter Z-TS

	Rated Curr. In (A)	Setting Range (A)	Type Designation	Article No.	Unit MRP
1-pole, 230 V~					
	20	13-20	Z-TS20/1	266850	Price on Request
	25	16-25	Z-TS25/1	266852	
	32	20-32	Z-TS32/1	266853	
	40	25-40	Z-TS40/1	266854	
	50	40-50	Z-TS50/1	266855	
	63	50-63	Z-TS63/1	266856	
3-pole, 400 V~					
	20	13-20	Z-TS20/3	266857	Price on Request
	25	16-25	Z-TS25/3	266858	
	32	20-32	Z-TS32/3	266859	
	40	25-40	Z-TS40/3	266860	
	50	40-50	Z-TS50/3	266861	
	63	50-63	Z-TS63/3	266862	

w.e.f from 10th April 2023

Accessories

Auxiliary Switch and Tripping Signal Switch for PLSM-MCB & PKNM-RCBO (Snapping Type)



For Protective Device / Function		Part No.	Article No.	Unit MRP
PLS..., PKN...	1NO+1NC	ZP-IHK	286052	1018
PLS..., PKN...	1CO	ZP-WHK	286053	1018
PLS..., PKN...	2CO (TRIP CONTACT)	ZP-NHK	248437	1386

Auxiliary Switch and Tripping Signal Switch for PLSM-MCB, PKNM-RCBO & PFIM-RCD (Screw Type)



For Protective Device / Function		Part No.	Article No.	Unit MRP
PFIM	1NO+1NC	Z-HK	248432	1018
PLS...	1NO+1NC	Z-AHK	248433	1018
PLS...	2CO (TRIP CONTACT)	Z-NHK	248434	1386

RCD-Tripping Module Z-FAM for remote switch-off RCD



For Protective Device / Function		Part No.	Article No.	Unit MRP
	PFIM	Z-FAM	248293	2750

Sealing Cover Set Z-RC/AK for PFIM, PFR



Pole	Part No.	Article No.	Unit MRP
2-pole	Z-RC/AK-2TE	285385	180
4-pole	Z-RC/AK-4TE	101062	210

Shunt Trip Release ZP-ASA for PLSM-MCB, PKNM-RCBO & Manual Motor Starter (Z-MS)



For Protective Device / Function		Part No.	Article No.	Unit MRP
	12-110V AC/12-60V DC	ZP-ASA/24	248438	2820
	110-415V AC/110V-220V DC	ZP-ASA/230	248439	2820

Undervoltage Release Z-USA, Z-USD for PLSM-MCB & Manual Motor Starter (Z-MS)



For Protective Device / Function		Part No.	Article No.	Unit MRP
	115 non-delayed	Z-USA/115	248288	5400
	230 non-delayed	Z-USA/230	248289	5400
	115 delayed 0.4s	Z-USD/115	248292	5760

Shunt Release and Auxiliary Switch for PLHT-MCB



Rated Current In	Part No.	Article No.	Unit MRP
Shunt Trip release, Shunt Trip Release Kit			
110-415V/Shunt Trip Release Kit	Z-BHASA/230	248445	3180
12-60V/Shunt Trip Release Kit	Z-BHASA/24	248444	3180
Auxiliary Switch			
Function 1NO+1 NC	Z-LHK	248440	1040

- Remote control and automatic switching device Z-FW for PLM-MCB and PFIM-RCD are available on request

w.e.f from 10th April 2023

Accessories

Busbar Fork Type



Function	Part No.	Article No.	Unit MRP
Busbar block (Fork) Z-GV for PLSM, PKNM, PFIM (without Auxiliary Switch), Delivered with end caps			
16 mm² Rated current 80 A			
1-phases 16x	Z-GV-16/1P-1TE/16	271074	
2-phases 8x	Z-GV-16/1P+N-2TE/16	271075	
3-phases 2x	Z-GV-16/3P-3TE/8	271073	Price on Request
4-phases 4x	Z-GV-16/3P+N-4TE/16	271078	
1m Busbar block (Fork) Z-GV for PLSM, PKNM, PFIM (with Auxiliary Switch), Delivered without end caps			
16 mm² Rated current 80 A			
1-phase	Z-GV-16/1P-1TE	271061	1579
2-phases	Z-GV-16/1P+N-2TE	271063	3245
3-phases	Z-GV-16/3P-3TE	271064	3575
4-phases	Z-GV-16/3P+N-4TE	271066	6232
4-phases	Z-GV-16/3P+3N-6TE	263142	7068
10 mm² Rated current 63 A			
1-phase	Z-GV-10/1P-1TE	270339	1249
3-phases	Z-GV-10/3P-3TE	271060	2910
End cap 1-phase	Z-V-AK/1P	104905	76

w.e.f from 10th April 2023

Surge Protection Device (SPD)

Specifications

- Standards : IEC 60364-5-53 Clause 534
- Individual components can be replaced without disconnection
- Classes : B, C, B+C (Combined Arrester), D
- Degree of protection (Built in) IP 20 (IP 40)
- Responding time : B-<100ns., C,B+C, D -< 25ns.
- Impulse current range: 12.5kA - 100kA
- Power feed optionally from above or below
- Lighting current arrester + Surge arrester sets :
B+C sets (Combines the function of class B & Class C in single device)

Surge Protective Class T1/T2, SPRT12-350



Poles	Max. Continuous Operating Voltage U _c	Part No.	Article No.	Unit MRP
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Combined Surge Protective Device SPRT12-350

• incl. FM contact (change-over contact) • for TN-C

3pole	350 VAC	SPRT12-350/3-AX	195235	78210
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• incl. FM contact (change-over contact) • for TN-S/TT

3pole+NPE	350 VAC	SPRT12-350/3+NPE-AX	195236	90068
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Range of protection	Max. Continuous Operating Voltage U _c	Part No.	Article No.	Unit MRP
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Insert for SPRT12-350

L-N / L-PEN	350 VAC	SPRT12-350	195237	22760
N-PE	350 VAC	SPRT12-350/NPE	195238	22760

Surge Protective Class T1/T2 (formerly B+C), SPBT12



Description	Part No.	Article No.	Unit MRP
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Lightning current arrester - surge arrester sets, Lightning protection classes III, IV

Without remote indication

TN-S/TT Set 1+N Set	SPBT12-280-1+NPE50	184752	10384
TN-C-Set 3pole	SPBT12-280/3	158330	17130
TN-S-Set 4pole	SPBT12-280/4	158331	22842
TN-S/TT Set 3+N Set	SPBT12-280-3+NPE50	184750	16638
TN-S/TT Set 3+N Set with busbar	SPBT12-280-3+NPE50/BB	184751	17110
TN-S/TT-Set 3+1pole	SPBT12-280-3+NPE	158332	34260
TN-S/TT-Set 3+1pole	SPBT12-280-3+NPE/BB	158333	34260

Accessories

Auxiliary switch for SPBT12-280	ASAXSC-SPM	131785	1243
Busbar	ZV-KSBl...		

Impulse current $I_{imp}(10/350)_{\mu s}$	Part No.	Article No.	Unit MRP
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Lightning current arrester - surge arrester SPBT12

Complete

50 kA N-PE	SPBT12-NPE50	184749	6974
100 kA N-PE	SPBT12-NPE100	158307	24746

Insert

12.5 kA Insert	SPBT12-280	167341	2596
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w.e.f from 10th April 2023

Surge Protection Device (SPD)

SPD Class C

	Poles	Impulse Current Iimp	Part No.	Article No.	Unit MRP
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Plug-in surge arrester SPCT2
Insert 1-pole

Insert 280VAC	20kA		SPCT2-280	167592	2662
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Plug-in surge arrester SPCT2, 1- to 4-pole
Complete(2- and multi-pole surge arresters are supplied with busbar)



1-pole	280VAC	20kA	SPCT2-280/1	167593	2904
2-pole	460VAC	2x20kA	SPCT2-460/2	167609	5302
2-pole	580VAC	2x20kA	SPCT2-580/2	167614	5302
3-pole	280VAC	3x20kA	SPCT2-280/3	167595	8228
4-pole	280VAC	4x20kA	SPCT2-280/4	167596	10764
4-pole	335VAC	4x20kA	SPCT2-335/4	167601	11237
4-pole	460VAC	4x20kA	SPCT2-460/4	167611	10126
3+N	460VAC	20kA	SPCT2-460-3+NPE	167626	13134

- DC SPDs prices on request

Neutral Failure Device/Overvoltage Protective Device

POP-270

- A POP-device intend to mitigate the effects of overvoltage between phase and neutral conductor (e.g. caused by broken neutral conductor in the 3-phase supply) for electrical devices and/or receptor equipment by de-energize the circuit when an overvoltage between phase and neutral conductor is detected.
- Application according BTTF 128-1
- Contact position indicator red-green shows secure isolation
- ON-OFF function with switching toggle
- Suitable for commercial and industrial applications

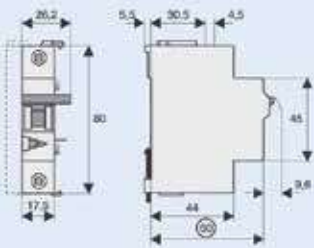


Power Frequency Overvoltage Protective Device (POP Device)

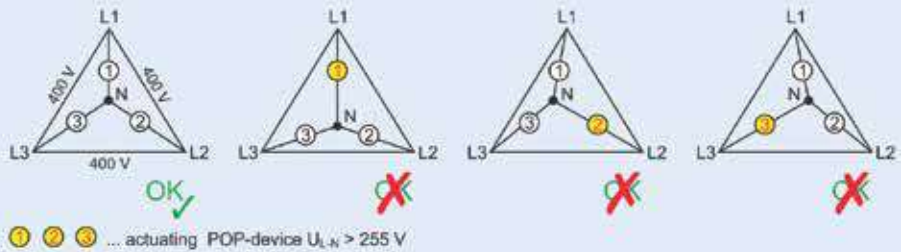
Rated Operational Voltage	Type Designation	Article No.	Units per package
230 V AC / 50 Hz	POP-270	173574	1 / 60

For accessories like Auxiliary Switch ZP-IHK and ZP-WHK, Tripping Signal Switch ZP-NHK, Shunt Trip Release ZP-ASA and Undervoltage Release Z-USA, Z-USD

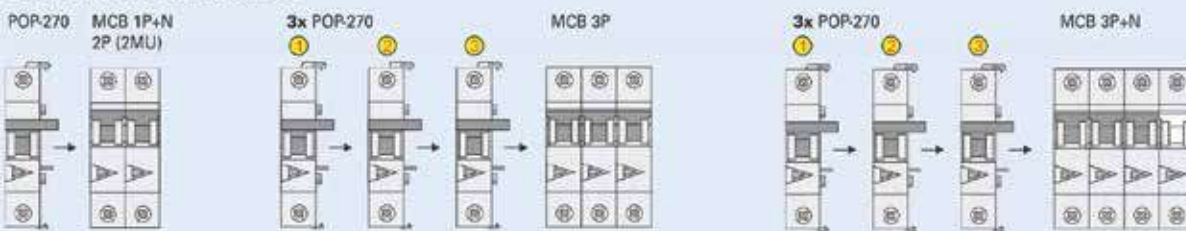
Dimensions (mm)



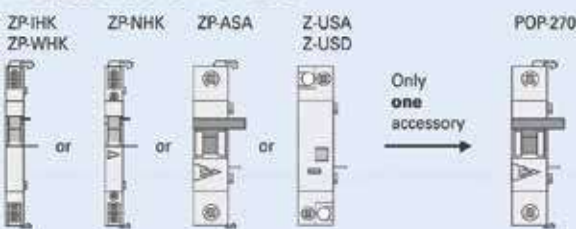
Voltage triangle



Combination with MCBs



Accessories for POP-270



*Please Contact nearest Eaton office for Price

xBoard ETN Series



- SPN DBs are Single Phase Neutral DBs with Incomer as 2P MCB/RCCB/RCBO/Isolator Outgoing with 1P MCBs

SPN					
Description	No. of modules	Single Door (IP30, IK08)	MRP	Double Door (IP43, IK10)	MRP
4 Way	4	ETNSPNH0A-04	1684	ETNSPNH3A-04	2204
6 Way	6	ETNSPNH0A-06	1772	ETNSPNH3A-06	2446
8 Way	8	ETNSPNH0A-08	2029	ETNSPNH3A-08	3080
12 Way	12	ETNSPNH0A-12	2400	ETNSPNH3A-12	3800
16 Way	16	ETNSPNH0A-16	2925	ETNSPNH3A-16	4187



- Horizontal TPN DBs are Three Phase Neutral DBs in horizontal arrangement with Incomer as 4P MCB/RCCB/RCBO/Isolator Outgoing with 1P MCBs

Horizontal TPN					
Description	No. of modules	Single Door (IP30, IK08)	MRP	Double Door (IP43, IK10)	MRP
4 Way	8 + 12	ETNTPNH0A-04	4687	ETNTPNH3A-04	6160
6 Way	8 + 18	ETNTPNH0A-06	5820	ETNTPNH3A-06	6875
8 Way	8 + 24	ETNTPNH0A-08	6870	ETNTPNH3A-08	8106
12 Way	8 + 36	ETNTPNH0A-12	9893	ETNTPNH3A-12	12133

- Horizontal TPN DBs are Three Phase Neutral DBs with Incomer as 4P MCB/RCCB/RCBO/Isolator Sub-incomer as 2P RCCB/RCBO to protect each phase separately in the event of fault Outgoing with 1P MCBs

Horizontal TPN DB with Per Phase Isolation					
Description	Incomer + Outgoing Module cut-outs	Single Door (IP30, IK08)	MRP	Double Door (IP43, IK10)	MRP
4 Way	8 + 6 + 12	-	-	ETNTNHP3A-04	8580
6 Way	8 + 6 + 18	-	-	ETNTNHP3A-06	10310
8 Way	8 + 6 + 24	-	-	ETNTNHP3A-08	12216
12 Way	8 + 6 + 36	-	-	ETNTNHP3A-12	16717

- Vertical TPN DBs are Three Phase Neutral DBs in vertical arrangement with Incomer as 4P MCB/RCCB/RCBO/Isolator Sub-incomer as 2P RCCB/RCBO to protect each phase separately in the event of fault Outgoing with 1P MCBs

Vertical TPN DB with Per Phase Isolation					
Description	Incomer + Outgoing Module cut-outs	Single Door (IP30, IK08)	MRP	Double Door (IP43, IK10)	MRP
4 Way	8 + 6 + 12	-	-	ETNTNVP3A-04	10233
6 Way	8 + 6 + 18	-	-	ETNTNVP3A-06	10774
8 Way	8 + 6 + 24	-	-	ETNTNVP3A-08	13508
12 Way	8 + 6 + 36	-	-	ETNTNVP3A-12	15002
14 Way	8 + 6 + 42	-	-	ETNTNVP3A-14	16423
16 Way	8 + 6 + 48	-	-	ETNTNVP3A-16	17108

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xBoard ETN Series



- Vertical TPN DBs with Modular incomer with fish-bone arrangement of busbar for ease of distribution for both 3P and 1P outgoing Incomer as 4P RCBO/ MCB/Isolator Outgoing with 3P/1P MCB

VTPN DB with Modular incomer					
Description	Incomer + Outgoing Module cut-outs	Single Door (IP30, IK08)	MRP	Double Door (IP43, IK10)	MRP
4 Way	12 + 12	-	-	ETNTNVM3A-04	13500
8 Way	12 + 24	-	-	ETNTNVM3A-08	17300
12 Way	12 + 36	-	-	ETNTNVM3A-12	23500



- Vertical TPN DBs with MCCB incomer with fish-bone arrangement of busbar for ease of distribution for both 3P and 1P outgoing Incomer as 3P BZM MCCB Outgoing with 3P/1P MCB

VTPN DB with MCCB incomer						
Description	Incomer + Outgoing Module cut-outs	Double Door (IP43, IK10)	MRP	Incomer + Outgoing Module cut-outs	Double Door (IP43, IK10)	
					100A MCCB	250A MCCB
4 Way	100A MCCB + 12	ETNTNM13A-04	20265	250A MCCB + 12	ETNTNM23A-04	30560
8 Way	100A MCCB + 24	ETNTNM13A-08	27625	250A MCCB + 24	ETNTNM23A-08	32200
12 Way	100A MCCB + 36	ETNTNM13A-12	16200	250A MCCB + 36	ETNTNM23A-12	26530



- Flexi DB, as the name suggests give complete flexibility to install/mount any kind of modular devices It comes in 2/3/4 row arrangement

Flexi DB					
Description	Incomer + Outgoing Module cut-outs	Single Door (IP30, IK08)	MRP	Double Door (IP43, IK10)	MRP
12 Module X 2 Tier	24	-	-	ETNFLT23A-12	6860
12 Module X 3 Tier	36	-	-	ETNFLT33A-12	8240
8 Module X 4 Tier	32	-	-	ETNFLT43A-08	7370
10 Module X 4 Tier	40	-	-	ETNFLT43A-10	7802
14 Module X 4 Tier	56	-	-	ETNFLT43A-14	9352

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xBoard ETN Series



■ TV Tel DB comes with an additional space for mounting TV and Tel cables/junction box

TV Tel DB					
Description	Double Door (IP43, IK10)	MRP	Incomer + Outgoing Module cut-outs	Double Door (IP43, IK10)	MRP
SPN			TPN		
4 Way	-	-	8 + 12	ETNTVTP3A-04	9476
6 Way	-	-	8 + 18	ETNTVTP3A-06	10120
8 Way	-	-	8 + 24	ETNTVTP3A-08	10707
12 Way	-	-	8 + 36	ETNTVTP3A-12	11345
16 Way	-	-	-	-	-

■ Segment DB or Phase Segregated DB are with compartmentalized constructions which separates Incomer with sub-incomer and outgoing. Separate compartment for Incomer for mounting of 4P RCBO/RCCB+MCB/MCB/Isolator. Separate compartment for Sub-incomer in each phase for mounting of 2P RCBO/RCCB. Separate compartment for Outgoing in each phase for mounting of 1P MCBs



7 Segment DB & 8 Segment DB						
Description	Incomer + Outgoing Module cut-outs	Double Door (IP43, IK10)	MRP	Incomer + Outgoing Module cut-outs	Double Door (IP43, IK10)	MRP
7 Segment DB				8 Segment DB		
4 Way	8 + 12 + 12	ETN7STN3A-04	20245	8 + 4 + 12 + 12	ETN8STN3A-04	21260
6 Way	8 + 12 + 18	ETN7STN3A-06	23175	8 + 4 + 12 + 18	ETN8STN3A-06	24350
8 Way	8 + 12 + 24	ETN7STN3A-08	26801	8 + 4 + 12 + 24	ETN8STN3A-08	28150
12 Way	8 + 12 + 36	ETN7STN3A-12	30225	8 + 4 + 12 + 36	ETN8STN3A-12	31750



■ Compact metal enclosure for mounting 2P/4P MCB/RCCB to the load

Metal Enclosure		
Incomer + Outgoing Module cut-outs	IP30, IK08	MRP
2	ETNCUDB0A-02	870
4	ETNCUDB0A-04	870



■ Compact metal enclosure with plug & socket with provision for mounting 2P/3P MCB to the load

Metal Enclosure with P&S			
Type	Incomer + Outgoing Module cut-outs	IP30, IK08	MRP
1P, 20A	2	ETNPGSN0A-01	2333
2P, 20A	2	ETNPGSN0A-02	2534
3P, 30A	4	ETNPGTN0A-03	5093

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DC Switch Disconnectors for PV - application

Dumeco

- *Full 2 pole DC Switch-disconnectors
- *4 Frame-sizes 63A-1250A, @1000Vdc
- *No need for bridging links
- *Bi-directional pole connection
- *No de-rating, fully rated at 65°C up to 250A
- *Small footprint
- *High Endurance



P-SOL & "N"-Type

P-SOL 2-poles

- Rated operational voltage 1000 VDC
- Utilization category DC-21A
- 20A, 30A & 60A



"N"-Type Switch-disconnectors for 1000/1500 V DC, 1 and 2 pole

- Rating from 160A to 1600A
- IEC/EN 60947-3
- Main switch characteristics including positive drive to IEC/EN 60204 and VDE 0113
- Isolating characteristics to IEC/EN 60947 and VDE 0660
- Busbar tag shroud to VDE0160 Part100
- Can be combined with voltage releases, Motor Operated Mechanism & Auxiliary Contacts
- Switches cannot be combined with withdrawable units and/or connection on rear

#Please contact nearest Eaton office for More details

DC Circuit Breaker for PV - application

DC string circuit-breaker PKZ-SOL

- Rated operational voltage 900 VDC
- Rated current In 4, 7, 12, 20, and 30 A
- For permissible string short-circuit currents Isc of 5 up to 22 A



PV Gard Solar Photovoltaic Circuit Breakers

- Rated operational voltage 1000 VDC (poles-in-series)
- Up to 800A
- Fixed thermal, fixed magnetic
- 50-°C calibration
- Tested to extreme ambient conditions from -40-°C to +90-°C



#Please contact nearest Eaton office for more details

For pricing & technical details of following Din Rail Mounted products, please contact Eaton

- Digital RCD's & Earth Leakage Monitor
- Metering Instruments :
 - Analogue Ammeter & Voltmeter
 - Digital Ammeter and Voltmeter
 - Power Meter
 - Operating Hour & Pulse Counter
- Push Buttons and Indicating Lights
- Contactors
- Relays
 - Undervoltage Relay
 - Undervoltage Monitoring Relay
 - Load Shedding Relay
 - Time Lag Relay
 - Impulse Relay
 - Installation Relay
- Staircase switch
- Industrial Switch
- Rotary Switch
- Light Intensity Switch
- Signaling Devices Buzzer / Bell



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FAZ Miniature Circuit Breakers

UL 1077 DIN Rail Supplementary Protectors



Optimum and efficient protection for every application

Standards and Certifications

FAZ complies with the latest national and international standards.

- UL 1077, CSA C22.2 No. 235
 - Apply to supplementary protectors intended for use as overcurrent, or overvoltage or undervoltage protection within an appliance or other electrical equipment where branch circuit protection is already provided, or is not required

- RoHS compliant
- VDE compliant
 - Devices with B, C, and D curves are VDE compliant
- CCC
 - Devices with B, C, and D curves are CCC compliant
- ABS compliant



FAZ Circuit Breakers

Product Overview

Optimum product quality, tested reliability and safety stand for best protection of personnel, installations and plant. Eaton's FAZ DIN rail mountable circuit breaker is designed for use in control panel applications.

Powerful offering for machine and system builders

The FAZ is available with B, C, D, K, S, and Z characteristics in accordance with UL 1077, CSA C22.2 No. 235 and IEC 60947-2. These devices are CE marked.

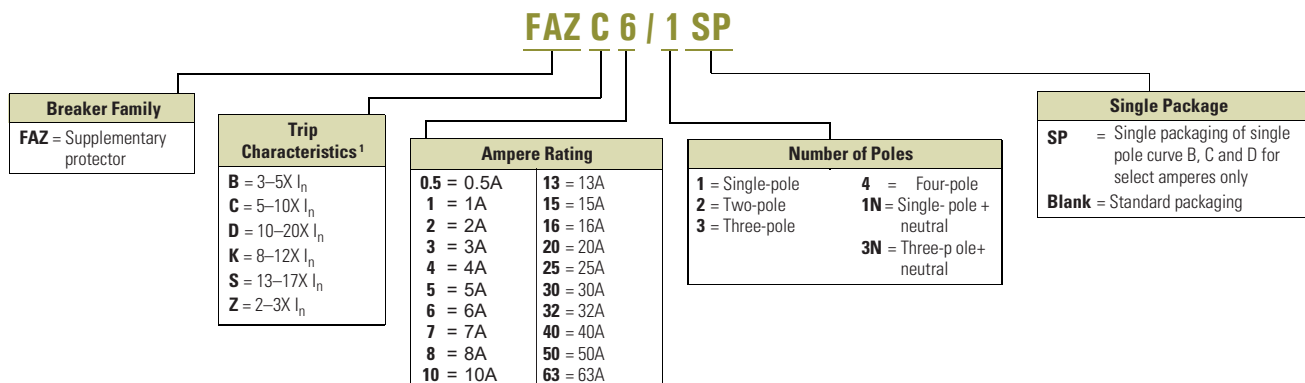
Application Description

- Supplementary protection
- Control circuits
- Lighting
- Business equipment
- Appliances

Features

- Complete range of UL 1077 recognized DIN rail mounted miniature circuit breakers up to 63A current rating
- Standard ratings of 10 kAIC up to 277/480 Vac
- Current limiting design provides fast short-circuit interruption that reduces the let-through energy, which can damage the circuit
- Suitable for supplementary protection
- Thermal-magnetic over current protection
 - Six levels of short-circuit protection, categorized by B,C,D,K,S and Z curves
- Trip-free design-breaker can not be defeated by holding the handle in the ON position
- Captive screws cannot be lost
- Fulfill UL 1077, CSA C22.2 No. 235 and IEC 60947-2 Standard
- Field-installable shunt trip and auxiliary switch subsequent mounting
- Module width of only 17.7 mm (per pole)
- Contact position indicator (red/green)
- Easy installation on DIN rail
- Possibility for sealing the toggle in ON or OFF position

Catalog Number Selection



Note

¹ I_n = Rated current for instantaneous trip characteristics.

*Please contact nearest Eaton office for prices

FAZ-NA Miniature Circuit Breakers

UL 489 DIN Rail Miniature Circuit Breakers



**Optimum and Efficient Protection
for Every Application**

Standards and Certifications

FAZ-NA complies with the latest national and international standards.

- UL 489
 - Standard for molded case circuit breakers (MCCB) for feeder and branch circuit protection
 - Products meet the requirements of the National Electrical Code (NECR)
- RoHS compliant
- VDE compliant
- ABS compliant

- CSA C22.2 No.5
 - Standard for molded case circuit breakers (MCCB) for feeder and branch circuit protection (corresponds closely to UL 489 Standard)
 - Products meet the requirements of the Canadian Electrical Code (CEC)



FAZ-NA Circuit Breakers

Product Overview

Optimum product quality, tested reliability and safety stand for best protection of personnel, installations and plant. Eaton's FAZ-NA DIN rail mountable circuit breaker is designed for use in branch service applications.

Powerful Offering for Machine and System Builders

The FAZ-NA is available with B, C and D characteristics in accordance with UL 489, CSA C22.2 No.5; UL 1077, CSA C22.2 No.235 and IEC 60947-2. These devices are CE marked.

Application Description

Feeder and branch circuit protection for:

- Convenience receptacle circuits (internal/external)
- Motor control circuits
- Load circuits leaving the equipment (external)
- HACR internal/external equipment (heating, air conditioning, refrigeration)

- PLC I/O points
- Computers
- Power supplies
- Control instrumentation
- Relays
- UPS
- Power conditioners

Features

- Complete range of UL 489 listed DIN rail mounted miniature circuit breakers up to 40A current rating
- Standard ratings of 10 kAIC up to 277/480 Vac
- Select amperages available at 14 kAIC up to 277/480 Vac and 10 kAIC up to 125 Vdc per pole
- Current limiting design provides fast short-circuit interruption that reduces the let-through energy which can damage the circuit
- Suitable for branch circuit device protection
- Thermal-magnetic overcurrent protection
- Three levels of shortcircuit protection, categorized by B, C and D curves

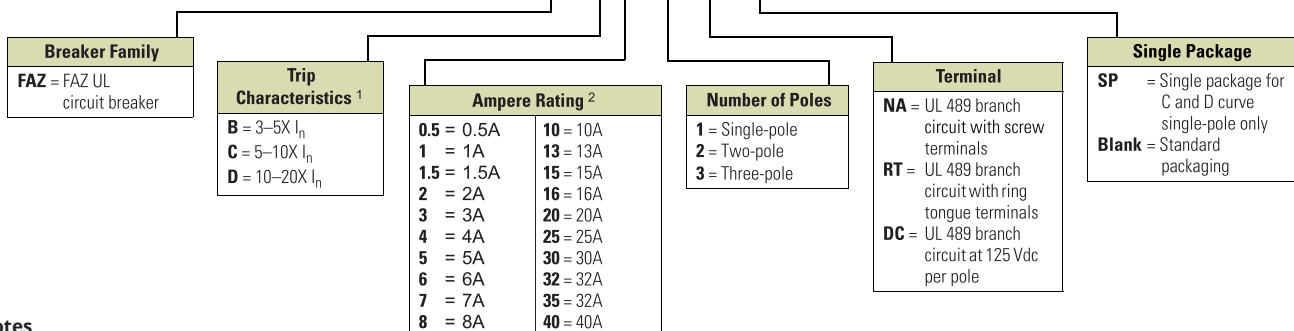
- Trip-free design—breaker can not be defeated by holding the handle in the ON position
- Captive screws cannot be lost
- SWD (switching duty)—suitable for switching fluorescent lighting loads ($I_n \leq 20A$)
- Fulfill UL 489, CSA C22.2 No.5 and also IEC 60947-2 Standard
- For use in applications for which UL 1077 or CSA C22.2 No.235 are also allowed
- Field-installable shunt trip and auxiliary switch subsequent mounting
- Separate version for ringtongue connection (Type FAZ-RT), terminal screws can be removed (on both sides)
- Module width of only 17.7 mm (per pole)
- Contact Position Indicator (red/green)
- Easy installation on DIN rail
- Possibility for sealing the toggle in ON or OFF position

Device Printing on Front and Side Installation options

These branch circuit breakers are available in two terminal configurations: standard box terminals that accept multiple conductors and ring-tongue terminals, ideally suited to demanding requirements of the semiconductor industry. All breakers mount on standard 35 mm DIN rail. Bus connectors and feeder terminal facilitate mounting and wiring of multiple miniature circuit breaker arrays in control panel assemblies. These circuit breakers can also be reverse feed.

Catalog Number Selection

FAZ C 6 / 1 NA SP



Notes

- ¹ I_n = Rated current for instantaneous trip characteristics.
- ² B curve starts at 1 ampere.

*Please contact nearest Eaton office for prices

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State-of-the-art manufacturing facility, Pondicherry

America | Europe | Middle East | Africa | Asia Pacific

Electrical standards and certifications



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Powering Business Worldwide

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- Product pictures shown are for illustration purpose only, actual product may vary.

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