DATASHEET - P5-250/E

On-Off switch, P5, 250 A, flush mounting, 3 pole, with black thumb grip and front plate



Part no. P5-250/E 280935

General specifications	
Product name	Eaton Moeller® series P5 0n-Off switch
Part no.	P5-250/E
EAN	4015082809355
Product Length/Depth	150 millimetre
Product Length	150 millimetre
Product width	130 millimetre
Product weight	1.865 kilogram
Compliances Certifications	CE Marked UL 508 UL 508 IEC 60947 EN 60947-3 CSA Std. C22.2 No. 14-05 VDE CE CSA File No.: 223805 UL File No.: 23805 UL File No.: E36332 IEC/EN 60947 UL Category Control No.: NLRV IEC/EN 60947-3 UL CSA VDE 0660 CSA-C22.2 No. 94 CSA Class No.: 3211-05 IEC/EN 60204 CSA-C22.2 No. 14-05
Product Tradename	P5
Product Type	On-Off switch
Product Sub Type	None
Catalog Notes	Rated Short-time Withstand Current (Icw) for a time of 1 second
Features & Functions	
Fitted with:	Black thumb grip and front plate
Number of poles	3
General information	
Accessories	Auxiliary contact or neutral conductor fitted by user.
Degree of protection	NEMA 12
Degree of protection (front side)	IP65
Lifespan, mechanical	80,000 Operations
Mounting method	Flush mounting
Mounting position	As required
Operating frequency	50 Operations/h
Overvoltage category	
Pollution degree	3
Rated impulse withstand voltage (Uimp)	8000 V AC
Safe isolation	440 V AC, Between the contacts, According to EN 61140
Safety parameter (EN ISO 13849-1)	B10d values as per EN ISO 13849-1, table C.1
Suitable for	Front mounting 4-hole Branch circuits, suitable as motor disconnect, (UL/CSA)
Climatic environmental conditions	
Ambient operating temperature - min	-25 °C
Ambient operating temperature - max	50 °C
Ambient operating temperature (enclosed) - min	-25 °C
Ambient operating temperature (enclosed) - max	40 °C
Climatic proofing	Damp heat, cyclic, to IEC 60068-2-30

	Damp heat, constant, to IEC 60068-2-78
Terminal capacities	
Terminal capacity	300 MCM (AWG), flexible 350 MCM (AWG), solid or flexible conductor with ferrule 2 x 70 mm ² , solid or stranded 2 x 20 x 3 mm Number of segments x width x thickness, copper strip 1 x 185 mm ² , solid or stranded 1 x 120 mm ² , flexible with ferrules to DIN 46228 2 x 50 mm ² , flexible with ferrules to DIN 46228 1 x 20 x 5 mm Number of segments x width x thickness, copper strip
Screw size Tightening torque	6 mm AF, Hexagon socket-head spanner, Terminal screw 16 Nm, Screw terminals 140 lb-in, Screw terminals
Electrical rating	
Rated breaking capacity at 220/230 V (cos phi to IEC 60947-3)	1600 A
Rated breaking capacity at 400/415 V (cos phi to IEC 60947-3)	1380 A
Rated breaking capacity at 500 V (cos phi to IEC 60947-3)	1250 A
Rated breaking capacity at 660/690 V (cos phi to IEC 60947-3)	400 A
Rated operational current (Ie) at AC-3, 220 V, 230 V, 240 V	126 A
Rated operational current (Ie) at AC-3, 380 V, 400 V, 415 V	105 A
Rated operational current (Ie) at AC-3, 500 V	118 A
Rated operational current (Ie) at AC-3, 660 V, 690 V	45 A
Rated operational current (Ie) at AC-21, 440 V	250 A
Rated operational current (Ie) at AC-23A, 230 V	126 A
Rated operational current (Ie) at AC-23A, 400 V, 415 V	170 A
Rated operational current (Ie) at AC-23A, 500 V	156 A
Rated operational current (Ie) at AC-23A, 690 V	50 A
Rated operational current (Ie) at DC-1, load-break switches I/r = 1 ms	250 A
Rated operational current (Ie) at DC-23A, 24 V	250 A
Rated operational current (Ie) at DC-23A, 48 V	250 A
Rated operational current (Ie) at DC-23A, 60 V	250 A
Rated operational current (Ie) at DC-23A, 120 V	80 A
Rated operational power at AC-3, 380/400 V, 50 Hz	55 kW
Rated operational power at AC-3, 415 V, 50 Hz	55 kW
Rated operational power at AC-3, 500 V, 50 Hz	75 kW
Rated operational power at AC-3, 690 V, 50 Hz	40 kW
Rated operational power at AC-23A, 220/230 V, 50 Hz	37 kW
Rated operational power at AC-23A, 400 V, 50 Hz	90 kW
Rated operational power at AC-23A, 500 V, 50 Hz	110 kW
Rated operational power at AC-23A, 690 V, 50 Hz	45 kW
Rated operational voltage (Ue) at AC - max	690 V
Rated uninterrupted current (Iu)	250 A
Uninterrupted current	Rated uninterrupted current lu is specified for max. cross-section.
Short-circuit rating	
Rated conditional short-circuit current (Iq)	30 kA
Rated short-time withstand current (Icw)	4,6 kA, Contacts, 1 second 4.6 kA
Short-circuit current rating (basic rating)	10 kA, SCCR (UL/CSA) 600A Class RK1, max. Fuse, SCCR (UL/CSA)
Short-circuit current rating (high fault)	400 A, Class J, max. Fuse, SCCR (UL/CSA) 65 kA, SCCR (UL/CSA)
Short-circuit protection rating	250 A gG/gL, Fuse, Contacts
Switching capacity	
Load rating	2 x l# (with intermittent operation class 12, 25 % duty factor) 1.6 x l# (with intermittent operation class 12, 40 % duty factor) 1.3 x l# (with intermittent operation class 12, 60 % duty factor)
Number of contacts in series at DC-23A, 24 V	3
Number of contacts in series at DC-23A, 48 V	3
Number of contacts in series at DC-23A, 60 V	3
Number of contacts in series at DC-23A, 120 V	3

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Red making calculation up to SD V (cos phile RECBI (SDF) 3) 100 A Votor rating 4V Assigned match power at 115/120 (UBE), 1-base 51.00 Assigned match power at 2200 (UBE), 1-base 51.00 Assigned match power at 2200 (UBE), 1-base 51.00 Assigned match power at 2200 (UBE), 2-base 51.00 Assigned match power at 2200 (UBE), 2-base 51.00 Assigned match power at 2500 (UBE), 2-base 51.00	Switching capacity (auxiliary contacts, general use)	10A, IU, (UL/CSA)
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	10.12 Electromagnetic compatibility	
	10.13 Mechanical function	

Technical data ETIM 8.0

Low-voltage industrial components (EG000017) / Switch disconnector (EC000216)

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lecnologia electronica, de automatización y de mando de procesos / lecnologi control / Seccionador de ruptura de carga compacto (ecl@ss10.0.1-27-37-14-03		e baja te	nsión / Conmutador de carga, seccionador de ruptura de carga, conmutador de
Version as main switch			No
/ersion as maintenance-/service switch			No
/ersion as safety switch			No
lersion as emergency stop installation			No
/ersion as reversing switch			No
lumber of switches			1
Nax. rated operation voltage Ue AC	١	V	690
Rated operating voltage	١	V	690 - 690
Rated permanent current lu	Ļ	A	250
lated permanent current at AC-23, 400 V	Ļ	A	250
Rated permanent current at AC-21, 400 V	ŀ	A	250
Rated operation power at AC-3, 400 V	k	kW	55
lated short-time withstand current lcw	k	kA	4.6
lated operation power at AC-23, 400 V	k	kW	90
witching power at 400 V	k	kW	90
onditioned rated short-circuit current Iq	k	kA	30
lumber of poles			3
lumber of auxiliary contacts as normally closed contact			0
lumber of auxiliary contacts as normally open contact			0
lumber of auxiliary contacts as change-over contact			0
fotor drive optional			No
Notor drive integrated			No
oltage release optional			No
Device construction			Built-in device fixed built-in technique
uitable for floor mounting			No
uitable for front mounting 4-hole			Yes
uitable for front mounting centre			No
uitable for distribution board installation			No
uitable for intermediate mounting			No
colour control element			Black
ype of control element			Short thumb-grip
nterlockable			No
ype of electrical connection of main circuit			Frame clamp
Degree of protection (IP), front side			IP65
Degree of protection (NEMA)			12