DATASHEET - P5-160/E

On-Off switch, P5, 160 A, flush mounting, 3 pole, with black thumb grip and front plate



Part no. P5-160/E 280921

eneral specifications	
Product name	Eaton Moeller® series P5 On-Off switch
Part no.	P5-160/E
EAN	4015082809218
Product Length/Depth	90 millimetre
Product height	140 millimetre
Product width	100 millimetre
Product weight	1.11 kilogram
Compliances	CE Marked
Certifications	IEC 60947 UL 508 CSA Std. C22.2 No. 14-05 EN 60947-3 VDE IEC/EN 60204 CSA File No.: 223805 UL Category Control No.: NLRV CSA-C22.2 No. 14-05 CSA Class No.: 3211-05 UL File No.: E36332 CE CSA-C22.2 No. 94 CSA IEC/EN 60947-3 IEC/EN 60947-3 IEC/EN 60947-3 IEC/EN 60947-3
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
eatures & Functions	
Fitted with:	Black thumb grip and front plate
Number of poles	3
eneral information	
Accessories	Auxiliary contact or neutral conductor fitted by user.
Degree of protection	NEMA 12
Degree of protection (front side)	IP65
Lifespan, mechanical	100,000 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)
limatic environmental conditions	
Ambient operating temperature - min	-25 °C
Ambient operating temperature - max	50 °C
Ambient operating temperature (enclosed) - min	-25 °C

	Damp heat, constant, to IEC 60068-2-78
Terminal capacities	
Terminal capacity	1 x 13 x 3 mm Number of segments x width x thickness, copper strip 2 x 25 mm ² , flexible with ferrules to DIN 46228 2/0 AWG, flexible 3/0 AWG, solid or flexible conductor with ferrule 2 x 35 mm ² , solid or stranded 2 x 13 x 1.5 mm Number of segments x width x thickness, copper strip 1 x 70 mm ² , flexible with ferrules to DIN 46228 1 x 95 mm ² , solid or stranded
Screw size	5 mm AF, Hexagon socket-head spanner, Terminal screw
Tightening torque	14 Nm, Screw terminals 125 Ib-in, Screw terminals
Electrical rating	
Rated breaking capacity at 220/230 V (cos phi to IEC 60947-3)	900 A
Rated breaking capacity at 400/415 V (cos phi to IEC 60947-3)	850 A
Rated breaking capacity at 500 V (cos phi to IEC 60947-3)	850 A
Rated breaking capacity at 660/690 V (cos phi to IEC 60947-3)	340 A
Rated operational current (Ie) at AC-3, 220 V, 230 V, 240 V	103 A
Rated operational current (Ie) at AC-3, 380 V, 400 V, 415 V	85 A
Rated operational current (Ie) at AC-3, 500 V	80 A
Rated operational current (Ie) at AC-3, 660 V, 690 V	42 A
Rated operational current (Ie) at AC-21, 440 V	160 A
Rated operational current (Ie) at AC-23A, 230 V	103 A
Rated operational current (Ie) at AC-23A, 400 V, 415 V	105 A
Rated operational current (Ie) at AC-23A, 500 V	106 A
Rated operational current (Ie) at AC-23A, 690 V	42 A
Rated operational current (Ie) at DC-1, load-break switches $I/r = 1 ms$	160 A
Rated operational current (Ie) at DC-23A, 24 V	160 A
Rated operational current (Ie) at DC-23A, 48 V	160 A
Rated operational current (Ie) at DC-23A, 60 V	160 A
Rated operational current (Ie) at DC-23A, 120 V	50 A
Rated operational power at AC-3, 380/400 V, 50 Hz	45 kW
Rated operational power at AC-3, 415 V, 50 Hz	45 kW
Rated operational power at AC-3, 500 V, 50 Hz	55 kW
Rated operational power at AC-3, 690 V, 50 Hz	37 kW
Rated operational power at AC-23A, 220/230 V, 50 Hz	30 kW
Rated operational power at AC-23A, 400 V, 50 Hz	55 kW
Rated operational power at AC-23A, 500 V, 50 Hz	75 kW
Rated operational power at AC-23A, 690 V, 50 Hz	37 kW
Rated operational voltage (Ue) at AC - max	690 V
Rated uninterrupted current (Iu)	160 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)	3 kA, Contacts, 1 second 3 kA
Short-circuit current rating (basic rating)	400A Class RK1, max. Fuse, SCCR (UL/CSA) 10 kA, SCCR (UL/CSA)
Short-circuit current rating (high fault)	65 kA, SCCR (UL/CSA) 300 A, Class J, max. Fuse, SCCR (UL/CSA)
Short-circuit protection rating	160 A gG/gL, Fuse, Contacts
Switching capacity	
Load rating	1.3 x I# (with intermittent operation class 12, 60 % duty factor) 2 x I# (with intermittent operation class 12, 25 % duty factor) 1.6 x I# (with intermittent operation class 12, 40 % 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

Switching capacity (auxiliary contacts, general use) Idea 10 (U, (U/CSA) Switching capacity (auxiliary contacts, pilot duty) A600 (UL/CSA) Rated making capacity (auxiliary contacts, pilot duty) Idea 10 (U, (U/CSA) Voltage per contact pair in series Idea 10 (U, (U/CSA) Motor rating Idea 10 (U, (U/CSA) Assigned motor power at 115/120 V, 60 Hz, 1-phase Idea 10 (U, (U/CSA) Assigned motor power at 115/120 V, 60 Hz, 1-phase Idea 10 (U, (U/CSA) Assigned motor power at 230/240 V, 60 Hz, 1-phase Idea 10 (U, (U/CSA) Assigned motor power at 230/240 V, 60 Hz, 1-phase Idea 10 (U, (U/CSA) Assigned motor power at 230/240 V, 60 Hz, 1-phase Idea 10 (U, (U/CSA) Assigned motor power at 230/240 V, 60 Hz, 1-phase Idea 10 (U, (U/CSA) Assigned motor power at 230/240 V, 60 Hz, 1-phase Idea 10 (U, (U/CSA) Assigned motor power at 230/240 V, 60 Hz, 3-phase Idea 10 (U, (U/CSA) Assigned motor power at 230/240 V, 60 Hz, 3-phase Idea 10 (U, (U/CSA) Assigned motor power at 257/5600 V, 60 Hz, 3-phase Idea 10 (U, (U/CSA) Number of auxiliary contacts (hormally closed contacts) Idea 10 (U, (U/CSA) Number of auxiliary contacts (normally closed contacts) Idea 10 (U, (U/CSA) <th>Switching capacity (main contacts, general use)</th> <th>200 A, Rated uninterrupted current max. (UL/CSA)</th>	Switching capacity (main contacts, general use)	200 A, Rated uninterrupted current max. (UL/CSA)
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Technical data ETIM 8.0

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

Electric engineering, automation, process control engineering / Low-voltage switch [AKF060013])	technology / ()ff-load sv	vitch, circuit breaker, control switch / Switch disconnector (ecl@ss10.0.1-27-37-14-03
Version as main switch			No
Version as maintenance-/service switch			No
Version as safety switch			No
Version as emergency stop installation			No
Version as reversing switch			No
Number of switches			1
Max. rated operation voltage Ue AC		V	690
Rated operating voltage		V	690 - 690
Rated permanent current lu		А	160
Rated permanent current at AC-23, 400 V		А	160
Rated permanent current at AC-21, 400 V		А	160
Rated operation power at AC-3, 400 V		kW	45
Rated short-time withstand current lcw		kA	3
Rated operation power at AC-23, 400 V		kW	55
Switching power at 400 V		kW	55
Conditioned rated short-circuit current Iq		kA	30
Number of poles			3
Number of auxiliary contacts as normally closed contact			0
Number of auxiliary contacts as normally open contact			0
Number of auxiliary contacts as change-over contact			0
Motor drive optional			No
Motor drive integrated			No
Voltage release optional			No
Device construction			Built-in device fixed built-in technique
Suitable for floor mounting			No
Suitable for front mounting 4-hole			Yes
Suitable for front mounting centre			No
Suitable for distribution board installation			No
Suitable for intermediate mounting			No
Colour control element			Black
Type of control element			Short thumb-grip
Interlockable			No
Type of electrical connection of main circuit			Frame clamp
Degree of protection (IP), front side			IP65
Degree of protection (NEMA)			12