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



Part no. P5-250/E 280935

eneral specifications	
Product name	Eaton Moeller® series P5 On-Off switch
Part no.	P5-250/E
EAN	4015082809355
Product Length/Depth	150 millimetre
Product height	150 millimetre
Product width	130 millimetre
Product weight	1.865 kilogram
Compliances	CE Marked
Certifications	UL 508 IEC 60947 EN 60947-3 CSA Std. C22.2 No. 14-05 VDE CE CSA File No.: 223805 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 C1ass No.: 3211-05 IEC/EN 60204 CSA-C22.2 No. 14-05 CSA UL
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
ieneral 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	III
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
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 mm², solid or stranded 2 x 20 x 3 mm Number of segments x width x thickness, copper strip 1 x 185 mm², solid or stranded 1 x 120 mm², flexible with ferrules to DIN 46228 2 x 50 mm², flexible with ferrules to DIN 46228 1 x 20 x 5 mm Number of segments x width x thickness, copper strip
Screw size	6 mm AF, Hexagon socket-head spanner, Terminal screw
Tightening torque	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 (le) at AC-3, 220 V, 230 V, 240 V	126 A
Rated operational current (le) at AC-3, 380 V, 400 V, 415 V $$	105 A
Rated operational current (le) at AC-3, 500 V	118 A
Rated operational current (le) at AC-3, 660 V, 690 V	45 A
Rated operational current (le) at AC-21, 440 V	250 A
Rated operational current (le) at AC-23A, 230 V	126 A
Rated operational current (le) at AC-23A, 400 V, 415 V	170 A
Rated operational current (le) at AC-23A, 500 V	156 A
Rated operational current (le) at AC-23A, 690 V	50 A
Rated operational current (Ie) at DC-1, load-break switches $1/r = 1 \text{ ms}$	250 A
Rated operational current (le) at DC-23A, 24 V	250 A
Rated operational current (le) at DC-23A, 48 V	250 A
Rated operational current (le) at DC-23A, 60 V	250 A
Rated operational current (le) 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
Switching capacity (main contacts, general use)	250 A, Rated uninterrupted current max. (UL/CSA)
Switching capacity (auxiliary contacts, general use)	10A, IU, (UL/CSA)
Switching capacity (auxiliary contacts, pilot duty)	A600 (UL/CSA)
Rated making capacity up to 690 V (cos phi to IEC/EN 60947-3)	1700 A
Voltage per contact pair in series	42 V
Motor rating	
Assigned motor power at 115/120 V, 60 Hz, 1-phase	15 HP
Assigned motor power at 115/120 V, 60 Hz, 3-phase	30 HP
Assigned motor power at 230/240 V, 60 Hz, 1-phase	30 HP
Assigned motor power at 230/240 V, 60 Hz, 3-phase	60 HP
Assigned motor power at 277 V, 60 Hz, 1-phase	30 HP
Assigned motor power at 460/480 V, 60 Hz, 3-phase	75 HP
Assigned motor power at 755/600 V, 60 Hz, 3-phase	75 HP
Contacts	76 11
	46.71
Control circuit reliability	1 failure per 100,000 switching operations statistically determined, at 24 V DC, 10 mA)
Number of auxiliary contacts (change-over contacts)	0
Number of auxiliary contacts (normally closed contacts)	0
Number of auxiliary contacts (normally open contacts)	0
Actuator	
Actuator color	Black
Actuator type	Short thumb-grip
Design verification	
Equipment heat dissipation, current-dependent Pvid	8 W
Heat dissipation capacity Pdiss	0 W
Heat dissipation per pole, current-dependent Pvid	8 W
Rated operational current for specified heat dissipation (In)	250 A
Static heat dissipation, non-current-dependent Pvs	0 W
10.2.2 Corrosion resistance	Meets the product standard's requirements.
10.2.3.1 Verification of thermal stability of enclosures	Meets the product standard's requirements.
10.2.3.2 Verification of resistance of insulating materials to normal heat	Meets the product standard's requirements.
10.2.3.3 Resist. of insul. mat. to abnormal heat/fire by internal elect. effects	Meets the product standard's requirements.
10.2.4 Resistance to ultra-violet (UV) radiation	UV resistance only in connection with protective shield.
10.2.5 Lifting	Does not apply, since the entire switchgear needs to be evaluated.
10.2.6 Mechanical impact	Does not apply, since the entire switchgear needs to be evaluated.
10.2.7 Inscriptions	Meets the product standard's requirements.
10.3 Degree of protection of assemblies	Does not apply, since the entire switchgear needs to be evaluated.
10.4 Clearances and creepage distances	Meets the product standard's requirements.
10.5 Protection against electric shock	Does not apply, since the entire switchgear needs to be evaluated.
10.6 Incorporation of switching devices and components	Does not apply, since the entire switchgear needs to be evaluated.
10.7 Internal electrical circuits and connections	Is the panel builder's responsibility.
10.8 Connections for external conductors	Is the panel builder's responsibility.
10.9.2 Power-frequency electric strength	Is the panel builder's responsibility.
10.9.3 Impulse withstand voltage	Is the panel builder's responsibility.
10.9.4 Testing of enclosures made of insulating material	Is the panel builder's responsibility.
10.10 Temperature rise	The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices.
10.11 Short-circuit rating	Is the panel builder's responsibility. The specifications for the switchgear must be observed.
10.12 Electromagnetic compatibility	Is the panel builder's responsibility. The specifications for the switchgear must be observed.
10.13 Mechanical function	The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.

Technical data ETIM 9.0

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

3/4

Activation is maintenunce-Parance winch Version as animitanunce-Parance winch Ve	Electric engineering, automation, process control engineering / Low-voltage switch technology	ogy / Off-load sv	witch, circuit breaker, control switch / Switch disconnector (ecl@ss13-27-37-14-03
Version as maintenance/service switch IN No Version as a serrogrecy styrich pinstallation IN No Version as a remerancy switch IN No Number of switches IN 1 Max. rated apparation voltage Ua AC V 860 - 893 Rated operating voltage A 250 Rated operation voltage Ua AC A 250 Rated operation voltage Ua AC A 250 Rated operation power at AC-3, 400 V A 250 Rated operation power at AC-3, 400 V A 250 Rated operation power at AC-3, 400 V A 250 Rated operation power at AC-3, 400 V A 30 Switching power at AC-23, 400 V AW 9 Switching power at AC-23, 400 V AW 9 Number of poles B 3 3 Number of a swilliary contacts as normally closed contact B 0 9 Number of a swilliary contacts as change-ever contact B No 9 Voltage raisea optional B No 9 </td <td>[AKF060018])</td> <td>377 3 300 31</td> <td>, , , , , , , , , , , , , , , , , , , ,</td>	[AKF060018])	377 3 300 31	, , , , , , , , , , , , , , , , , , , ,
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Version as enurgency stop installation Indicate of soft control or soft character of perating with the summer of soft character of perating voltage IL eAC V 650 r890 Max. rated operating voltage V 650 r890 Rated operating voltage A 250 Rated operating voltage A 250 Rated permanent current at AC-21, 400 V A 250 Rated operating owner at AC-3, 400 V B 55 Rated short sine with stand current cover IA 46 Rated operation gower at AC-3, 400 V IA 90 Rated operation gower at AC-3, 400 V IA 90 Rated operation gower at AC-23, 400 V IA 90 Rated operating owner at AC-23, 400 V IA 90 Rated operating owner at 400 V IA 90 Switching power at 400 V IA 90 Switching power at 400 V IA 30 Switching power at 400 V IA 90 Switching power at 400 V IA 90 Switching power at 400 V IA 90 Switching power at 400 V IA <td>Version as maintenance-/service switch</td> <td></td> <td>No</td>	Version as maintenance-/service switch		No
No No No No No No No No	Version as safety switch		No
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Retod operating voltage V 690 - 690 Retod permanent current at AC-23, 400 V A 250 Retod operation power at AC-3, 400 V KW 55 Retod operation power at AC-3, 400 V kW 90 Retod operation power at AC-33, 400 V kW 90 Retod operation power at AC-33, 400 V kW 90 Solitothing power at AG-34, 400 V kW 90 Conditioned rated short-circuit current Iq kW 90 Number of Jacobiany contacts as normally closed contact Image: Contact of auxiliary contacts as normally closed contact Image: Contact act an anormally closed contact an anormally closed contact Image: Contact act an anormally closed contact an anormally closed contact an anormally closed	Number of switches		1
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Rated permanent current at AC-23, 400 V A 250 Rated permanent current at AC-21, 400 V KW 55 Rated short-time withstand current lew KA 4.6 Rated operation power at AC-23, 400 V KW 90 Rated operation power at AC-23, 400 V KW 90 Switching power at 400 V KW 90 Conditioned rated short-circuit current lq KW 90 Number of poles W 90 Number of poles W 90 Number of auxiliary contacts as normally closed contact 0 90 Number of auxiliary contacts as shange-over cortact 0 90 Motor drive integrated NO 90 Motor drive integrated NO 90 Woto potional NO 90 Device construction NO 90 Suitable for floor mounting NO 90 Suitable for front mounting e-thole NO 90 Suitable for front mounting e-thole NO 90 Suitable for front mounting e-thole NO 90	Rated operating voltage	V	690 - 690
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Rated short-time withstand current lcw kA 4.6 Rated operation power at AC-23, 400 V kW 90 Switching power at 400 V kW 90 Conditional rated short-circuit current lq kA 30 Number of poles 3 3 Number of suxiliary contacts as normally closed contact 0 0 Number of auxiliary contacts as change-over contact 0 0 Motor drive optional No 0 Motor drive integrated No No Voltage release optional No No Device construction Built-in device fixed built-in technique Suitable for front mounting 4-hole No No Suitable for front mounting 4-hole No No Suitable for intermediate mounting No No Colour control element No No Type of control element No	Rated permanent current at AC-21, 400 V	Α	250
Rated operation power at AC-23,400 V kW 90 Switching power at 400 V kW 90 Conditioned rated short-circuit current Iq kA 30 Number of poles Poles 3 Number of pulsarilary contacts as normally closed contact 0 0 Number of auxiliary contacts as change-over contact 0 0 Motor drive optional No 0 Motor drive integrated No No Voltage release optional No No Device construction Built-in device fixed built-in technique Suitable for front mounting No No Suitable for front mounting 4-hole Yes No Suitable for ford mounting centre No No Suitable for ford mounting centre No No Suitable for ford mounting entre No No Suitable for ford mounting entre No No Suitable for firent mounting entre No No Suitable for firent mounting entre No No Type of control element No	Rated operation power at AC-3, 400 V	kW	55
Switching power at 400 V kW 90 Conditioned rated short-circuit current Iq kA 30 Number of poles 3 3 Number of auxiliary contacts as normally closed contact 0 0 Number of auxiliary contacts as normally open contact 0 0 Number of auxiliary contacts as change-over contact 0 0 Motor drive integrated No No Voltage release optional No No Device construction Built-in device fixed built-in technique Suitable for from mounting No No Suitable for front mounting centre No No Suitable for intermediate mounting No No Suitable for intermediate mounting No No Suitable for intermediate mounting No No Colour control element No No Type of control element No No Type of electrical connection of main circuit No No Degree of protection (IP), front side No No Degree of protection (IP), front	Rated short-time withstand current lcw	kA	4.6
Conditioned rated short-circuit current Iq Number of poles Number of auxiliary contacts as normally closed contact Number of auxiliary contacts as normally open contact Number of auxiliary contacts as normally open contact Number of auxiliary contacts as change-over contact Number of auxiliary contacts as normally open contact Number of auxiliary contacts No	Rated operation power at AC-23, 400 V	kW	90
Number of poles 3 Number of auxiliary contacts as normally open contact 0 Number of auxiliary contacts as normally open contact 0 Number of auxiliary contacts as change-over contact 0 Motor drive optional No Metor drive integrated No Voltage release optional No Device construction Built-in device fixed built-in technique Suitable for front mounting No Suitable for front mounting centre No Suitable for front mounting centre No Suitable for intermediate mounting No Suitable for front mounting centre No Suitable for front mounting centre No Suitable for intermediate mounting No Colour control element No Suitable for intermediate mounting No Colour control element No Type of control element No With pre-assembled cabling No Degrae of protection (NEMA) No Degrae of protection (NEMA) Yes With pre-assembled cabling No	Switching power at 400 V	kW	90
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Number of auxiliary contacts as normally open contact 6 Number of auxiliary contacts as change-over contact 7 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 fixed built-in technique No Suitable for fixed built-in device fixed built-in technique No Suitable for front mounting 4-hole Yes Suitable for front mounting centre No Suitable for distribution board installation No Suitable for intermediate mounting Short thumb-grip Colour control element Short thumb-grip Type of control element No Type of electrical connection of main circuit Frame clamp With pre-assembled cabling No Degree of protection (IPI, front side Pe5 Degree of protection (IPI, front side Pe7 Degree of protection (INEMA) Mm Width mm	Number of poles		3
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 Wo Suitable for front mounting 4-hole Yes Suitable for distribution board installation No Suitable for intermediate mounting No Colour control element No Type of control element Short thumb-grip Interlockable No Type of electrical connection of main circuit Frame clamp With pre-assembled cabling No Degree of protection (IP), front side IP65 Degree of protection (NEMA) mm 30 Width mm 30 Height mm 35 Depth mm 35	Number of auxiliary contacts as normally closed contact		0
Motor drive optional Mo Motor drive integrated No Voltage release optional Mo Device construction Built-in device fixed built-in technique Suitable for floor mounting No Suitable for front mounting 4-hole Yes Suitable for distribution board installation No Suitable for intermediate mounting No Colour control element No Type of control element No Interlockable No Type of electrical connection of main circuit Frame clamp With pre-assembled cabling No Degree of protection (IP), front side IP65 Degree of protection (NEMA) IP65 Width mm 30 Height mm 150 Depth mm 150	Number of auxiliary contacts as normally open contact		0
Motor drive integrated Voltage release optional Device construction Suitable for floor mounting Suitable for front mounting 4-hole Suitable for front mounting centre Suitable for distribution board installation Suitable for intermediate mounting Colour control element Type of control element Type of control element Interlockable Type of electrical connection of main circuit With pre-assembled cabling Degree of protection (IP), front side Degree of protection (NEMA) Degree of protection (N	Number of auxiliary contacts as change-over contact		0
Voltage release optional Device construction Suitable for floor mounting Suitable for front mounting 4-hole Suitable for front mounting centre Suitable for firont mounting centre Suitable for distribution board installation Suitable for intermediate mounting Colour control element Type of control element Type of electrical connection of main circuit With pre-assembled cabling Degree of protection (IP), front side Degree of protection (IP), front side Degree of protection (NEMA) Medidition Type of electrical connection of Main circuit With the case of protection (NEMA) Mind Mi	Motor drive optional		No
Device construction Suitable for floor mounting Suitable for front mounting 4-hole Suitable for front mounting 4-hole Suitable for front mounting centre Suitable for firont mounting centre Suitable for distribution board installation Suitable for intermediate mounting Colour control element Type of control element Interlockable Type of electrical connection of main circuit With pre-assembled cabling Degree of protection (IP), front side Degree of protection (NEMA) Mind Mind Mind Mind Mind Mind Mind Mind	Motor drive integrated		No
Suitable for floor mounting Suitable for front mounting 4-hole Suitable for front mounting centre Suitable for front mounting centre Suitable for distribution board installation Suitable for intermediate mounting Colour control element Type of control element Suitable for intermediate mounting Short thumb-grip Interlockable Type of electrical connection of main circuit Suitable for intermediate mounting Short thumb-grip Interlockable Type of electrical connection of main circuit Suitable for intermediate mounting Short thumb-grip Interlockable Type of electrical connection of main circuit Short thumb-grip Interlockable Type of electrical connection of main circuit Short thumb-grip Interlockable Type of electrical connection of main circuit Short thumb-grip Interlockable Type of electrical connection of main circuit Short thumb-grip Interlockable Type of electrical connection of main circuit Interlockable Type of electrical connection of main circuit Interlockable Type of electrical connection of main circuit Interlockable	Voltage release optional		No
Suitable for front mounting 4-hole Suitable for front mounting centre Suitable for front mounting centre Suitable for distribution board installation Suitable for intermediate mounting Colour control element Type of control element Interlockable Type of electrical connection of main circuit With pre-assembled cabling Degree of protection (IP), front side Degree of protection (NEMA) With Height Depth Degree Degr	Device construction		Built-in device fixed built-in technique
Suitable for front mounting centre Suitable for distribution board installation Suitable for distribution board installation Suitable for intermediate mounting Colour control element Type of control element Interlockable Type of electrical connection of main circuit With pre-assembled cabling Degree of protection (IP), front side Degree of protection (NEMA) Medidih Height Depth Degree Deg	Suitable for floor mounting		No
Suitable for distribution board installation Suitable for intermediate mounting Colour control element Type of control element Interlockable Type of electrical connection of main circuit With pre-assembled cabling Degree of protection (IP), front side Degree of protection (NEMA) Degree of protection (NEMA) Degree of mm Degree of protection (NEMA) Degree of mm Degre	Suitable for front mounting 4-hole		Yes
Suitable for intermediate mounting Colour control element Type of control element Interlockable Type of electrical connection of main circuit With pre-assembled cabling Degree of protection (IP), front side Degree of protection (NEMA) Width Midth Mid	Suitable for front mounting centre		No
Colour control element Type of control element Interlockable Type of electrical connection of main circuit With pre-assembled cabling Degree of protection (IP), front side Degree of protection (NEMA) With Height Depth Black Short thumb-grip No Frame clamp No Frame clamp No 12 Width mm 130 H50 H50 H50 H50 H50 H50 H50 H50 H50 H5	Suitable for distribution board installation		No
Type of control element Interlockable Interlockable Type of electrical connection of main circuit With pre-assembled cabling Degree of protection (IP), front side Degree of protection (NEMA) Width Height Depth Short thumb-grip No Poance clamp No Prame clamp No Poance c	Suitable for intermediate mounting		No
Interlockable Interlockable Type of electrical connection of main circuit With pre-assembled cabling With pre-assembled cabling Degree of protection (IP), front side Degree of protection (NEMA) With Pre-assembled cabling Degree of protection (NEMA) Interlockable Int	Colour control element		Black
Type of electrical connection of main circuit With pre-assembled cabling Degree of protection (IP), front side Degree of protection (NEMA) Width Height Depth Frame clamp No 1P65 12 12 130 150 150 150 150 150 150 150	Type of control element		Short thumb-grip
With pre-assembled cabling Degree of protection (IP), front side Degree of protection (NEMA) Width Height Depth No 165 170 180 190 190 190 190 190 190 19	Interlockable		No
Degree of protection (IP), front side IP65 Degree of protection (NEMA) 12 Width mm 130 Height mm 150 Depth mm 150	Type of electrical connection of main circuit		Frame clamp
Degree of protection (NEMA) Width mm 130 Height mm 150 Depth	With pre-assembled cabling		No
Width mm 130 Height mm 150 Depth 150	Degree of protection (IP), front side		IP65
Height mm 150 Depth mm 150	Degree of protection (NEMA)		12
Depth mm 150	Width	mm	130
	Height	mm	150
Width in number of modular spacings	Depth	mm	150
	Width in number of modular spacings		