DATASHEET - P3-63/IVS/HI11

On-Off switch, P3, 63 A, service distribution board mounting, 3 pole, 1 N/ O, 1 N/C, with black thumb grip and front plate



Part no.

P3-63/IVS/HI11 081593

General specifications	
Product name	Eaton Moeller® series P3 On-Off switch
Part no.	P3-63/IVS/HI11
EAN	4015080815938
Product Length/Depth	87 millimetre
Product height	83 millimetre
Product width	87 millimetre
Product weight	0.327 kilogram
Certifications	CE CSA-C22.2 No. 60947-4-1-14 CSA File No.: 012528 CSA IEC/EN 60204 CSA Class No.: 3211-05 UL File No.: E36332 IEC/EN 60947 CSA-C22.2 No. 94 UL Category Control No.: NLRV IEC/EN 60947-3 UL VDE 0660 UL 60947-4-1 UL CSA
Product Tradename	P3
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 Other
Degree of protection (front side)	IP30
Lifespan, mechanical	100,000 Operations
Mounting method	Service distribution board mounting
Mounting position	As required
Operating frequency	1200 Operations/h
Overvoltage category	
Pollution degree	3
Rated impulse withstand voltage (Uimp)	6000 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
Shock resistance	15 g, Mechanical, According to IEC/EN 60068-2-27, Half-sinusoidal shock 20 ms
Suitable for	Branch circuits, suitable as motor disconnect, (UL/CSA) Ground mounting Distribution board installation
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, constant, to IEC 60068-2-78
	Damp heat, cyclic, to IEC 60068-2-30

01/23/2024

Terminal capacities		
Terminal capacity		1 x (1.5 - 25) mm², flexible with ferrules to DIN 46228 1 x (2.5 - 35) mm², solid or stranded
	2	2 x (2.5 - 10) mm², solid or stranded 2 x (1.5 - 6) mm², flexible with ferrules to DIN 46228 14 - 2 AWG, solid or flexible with ferrule
Screw size		M5, Terminal screw
Tightening torque	3	3 Nm, Screw terminals
	2	26.5 lb-in, Screw terminals
Electrical rating		
Rated breaking capacity at 220/230 V (cos phi to IEC 60947-3)	6	640 A
Rated breaking capacity at 400/415 V (cos phi to IEC 60947-3)	6	600 A
Rated breaking capacity at 500 V (cos phi to IEC 60947-3)	5	590 A
Rated breaking capacity at 660/690 V (cos phi to IEC 60947-3)	3	340 A
Rated operational current (Ie) at AC-3, 220 V, 230 V, 240 V	5	51 A
Rated operational current (Ie) at AC-3, 380 V, 400 V, 415 V		55 A
Rated operational current (Ie) at AC-3, 500 V		44 A
Rated operational current (Ie) at AC-3, 660 V, 690 V		22.1 A
Rated operational current (Ie) at AC-21, 440 V		63 A
Rated operational current (Ie) at AC-23A, 230 V		63 A
Rated operational current (le) at AC-23A, 400 V, 415 V		63 A
Rated operational current (le) at AC-23A, 500 V		63 A
Rated operational current (Ie) at AC-23A, 690 V Rated operational current (Ie) at DC-1, load-break switches l/r = 1 ms		63 A 63 A
Rated operational current (le) at DC-1, load-break switches (r = 1 ms		50 A
Rated operational current (le) at DC-23A, 24 V		50 A
Rated operational current (Ie) at DC-23A, 60 V		50 A
Rated operational current (Ie) at DC-23A, 120 V		25 A
Rated operational power at AC-3, 380/400 V, 50 Hz		30 kW
Rated operational power at AC-3, 415 V, 50 Hz		30 kW
Rated operational power at AC-3, 500 V, 50 Hz		30 kW
Rated operational power at AC-3, 690 V, 50 Hz		30 kW
Rated operational power at AC-23A, 220/230 V, 50 Hz	1	18.5 kW
Rated operational power at AC-23A, 400 V, 50 Hz	3	30 kW
Rated operational power at AC-23A, 500 V, 50 Hz	4	45 kW
Rated operational power at AC-23A, 690 V, 50 Hz	5	55 kW
Rated operational voltage (Ue) at AC - max	6	690 V
Rated uninterrupted current (Iu)	6	63 A
Uninterrupted current	F	Rated uninterrupted current lu is specified for max. cross-section.
Short-circuit rating		
Rated conditional short-circuit current (Iq)		4 kA (Load side) 100 kA (Supply side)
Rated short-time withstand current (Icw)	1	1.26 kA
Short-circuit current rating (basic rating)		10 kA, SCCR (UL/CSA) 150A, max. Fuse, SCCR (UL/CSA)
Short-circuit protection rating	8	80 A gG/gL, Fuse, Contacts
Switching capacity		
Load rating	1	2 x I# (with intermittent operation class 12, 25 % duty factor) 1.6 x I# (with intermittent operation class 12, 40 % duty factor) 1.3 x I# (with intermittent operation class 12, 60 % duty factor)
Number of contacts in series at DC-23A, 24 V	1	1
Number of contacts in series at DC-23A, 48 V	2	2
Number of contacts in series at DC-23A, 60 V	2	2
Number of contacts in series at DC-23A, 120 V	3	3
Switching capacity (main contacts, general use)	6	60 A, Rated uninterrupted current max. (UL/CSA)
Switching capacity (auxiliary contacts, general use)	1	10A, IU, (UL/CSA)
Switching capacity (auxiliary contacts, pilot duty)		A600 (UL/CSA) P600 (UL/CSA)
Rated making capacity up to 690 V (cos phi to IEC/EN 60947-3)	8	800 A

Voltage per contact pair in series	6	50 V
Motor rating		
Assigned motor power at 115/120 V, 60 Hz, 1-phase	3	3 HP
Assigned motor power at 200/208 V, 60 Hz, 1-phase	7	7.5 HP
Assigned motor power at 200/208 V, 60 Hz, 3-phase	1	15 HP
Assigned motor power at 230/240 V, 60 Hz, 1-phase	1	10 HP
Assigned motor power at 230/240 V, 60 Hz, 3-phase	1	15 HP
Assigned motor power at 460/480 V, 60 Hz, 3-phase	4	10 HP
Assigned motor power at 575/600 V, 60 Hz, 3-phase	5	50 HP
Contacts		
Control circuit reliability	1	I failure per 100,000 switching operations statistically determined, at 24 V DC, 10
		nA)
Number of auxiliary contacts (change-over contacts)	0)
Number of auxiliary contacts (normally closed contacts)	1	I
Number of auxiliary contacts (normally open contacts)	1	1
Actuator		
Actuator color	B	Black
Actuator type	S	Short thumb-grip
Design verification		
Equipment heat dissipation, current-dependent Pvid	0) W
Heat dissipation capacity Pdiss	0) W
Heat dissipation per pole, current-dependent Pvid	4	1.5 W
Rated operational current for specified heat dissipation (In)	6	53 A
Static heat dissipation, non-current-dependent Pvs) W
10.2.2 Corrosion resistance	Ν	Neets the product standard's requirements.
10.2.3.1 Verification of thermal stability of enclosures		Neets the product standard's requirements.
10.2.3.2 Verification of resistance of insulating materials to normal heat		Neets 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		Neets the product standard's requirements.
10.2.5 Lifting		Does not apply, since the entire switchgear needs to be evaluated.
10.2.6 Mechanical impact	D	Does not apply, since the entire switchgear needs to be evaluated.
10.2.7 Inscriptions		Veets the product standard's requirements.
10.3 Degree of protection of assemblies	D	Does not apply, since the entire switchgear needs to be evaluated.
10.4 Clearances and creepage distances		Neets the product standard's requirements.
10.5 Protection against electric shock	D	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	ls	s the panel builder's responsibility.
10.8 Connections for external conductors	ls	s the panel builder's responsibility.
10.9.2 Power-frequency electric strength	ls	s the panel builder's responsibility.
10.9.3 Impulse withstand voltage	1:	s the panel builder's responsibility.
10.9.4 Testing of enclosures made of insulating material	ls	s the panel builder's responsibility.
10.10 Temperature rise	т	The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices.
10.11 Short-circuit rating		s 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 eaflet (IL) is observed.

Technical data ETIM 9.0

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

 Electric engineering, automation, process control engineering / Low-voltage switch technology / Off-load switch, circuit breaker, control switch / Switch disconnector (ecl@ss13-27-37-14-03 [AKF060018])

 Version as main switch
 No

 Version as maintenance-/service switch
 No

 Version as safety switch
 No

Notion as reveals when the second of the second o	s emergency stop installation		No
Number of switches I Max. rated operation voltage Ue AC V 60 Rated operation voltage Ue AC V 60 Rated operation voltage V 60 Rated operation voltage V 60 Rated operation voltage V 60 Rated operation power at AC-23, 400 V A 63 Rated operation power at AC-23, 400 V V 60 Switching power at AC-23, 400 V V 60 Switching power at AC-23, 400 V V 60 Switching power at AC-23, 400 V V 60 Number of auxiliary contacts as normally closed contact KM 60 Number of auxiliary contacts as normally closed contact I 1 Number of auxiliary contacts as normally closed contact I 1 Number of auxiliary contacts as normally closed contact I I Number of auxiliary contacts as normally closed contact I I Number of auxiliary contacts as normally closed contact I I Suitable for from nouring - D I I Suit			
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Number of auxiliary contacts as change-over contact Image: I			
Number of auxiliary contacts as change-over contact Image: Provide and Pro			
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Degree of protection (NEMA) mm 87 Width mm 83	assembled cabling		No
Widthmm87Heightmm83	protection (IP), front side		IP30
Height mm 83	protection (NEMA)		Other
	, and the second se	mm	87
Depth mm 87	, in the second s	mm	83
	г	mm	87
Width in number of modular spacings	number of modular spacings		