On-Off switch, P3, 100 A, surface mounting, 3 pole, with black thumb grip and front plate $\,$



Part no. P3-100/I5

207381

EL Number

1456131

(Norway)

(Itolivay)	
General specifications	
Product name	Eaton Moeller® series P3 On-Off switch
Part no.	P3-100/I5
EAN	4015082073817
Product Length/Depth	162 millimetre
Product height	280 millimetre
Product width	200 millimetre
Product weight	1.46 kilogram
Certifications	IEC/EN 60947
	CSA IEC/EN 60947-3 VDE 0660
	UL
	IEC/EN 60204 CSA
	UL
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 12
Degree of protection (front side)	IP65
Lifespan, mechanical	100,000 Operations
Mounting method	Surface mounting
Mounting position	As required
Operating frequency	1200 Operations/h
Overvoltage category	III
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	Ground mounting
Switching angle	90 °
Climatic environmental conditions	
Ambient operating temperature - min	-25 °C
Ambient operating temperature - max	40 °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
Terminal capacities	
Terminal capacity	2 x (1.5 - 6) mm², flexible with ferrules to DIN 46228 1 x (1.5 - 25) mm², flexible with ferrules to DIN 46228 1 x (2.5 - 35) mm², solid or stranded 2 x (2.5 - 10) mm², solid or stranded

	14 - 2 AWG, solid or flexible with ferrule
Screw size	M5, Terminal screw
Tightening torque	3 Nm, Screw terminals 26.5 lb-in, Screw terminals
Electrical rating	
Rated breaking capacity at 220/230 V (cos phi to IEC 60947-3)	760 A
Rated breaking capacity at 400/415 V (cos phi to IEC 60947-3)	740 A
Rated breaking capacity at 500 V (cos phi to IEC 60947-3)	880 A
Rated breaking capacity at 660/690 V (cos phi to IEC 60947-3)	520 A
Rated operational current (Ie) at AC-3, 220 V, 230 V, 240 V	71 A
Rated operational current (Ie) at AC-3, 380 V, 400 V, 415 V	71 A
Rated operational current (Ie) at AC-3, 500 V	65 A
Rated operational current (Ie) at AC-3, 660 V, 690 V	23.8 A
Rated operational current (le) at AC-21, 440 V	100 A
Rated operational current (Ie) at AC-23A, 230 V	100 A
Rated operational current (Ie) at AC-23A, 400 V, 415 V	100 A
Rated operational current (Ie) at AC-23A, 500 V	96 A
Rated operational current (Ie) at AC-23A, 690 V	68 A
Rated operational current (Ie) at DC-1, load-break switches I/r = 1 ms	100 A
Rated operational current (Ie) at DC-23A, 24 V	50 A
Rated operational current (Ie) at DC-23A, 48 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	37 kW
Rated operational power at AC-3, 415 V, 50 Hz	37 kW
Rated operational power at AC-3, 500 V, 50 Hz	45 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	55 kW
Rated operational power at AC-23A, 690 V, 50 Hz	55 kW
Rated operational voltage (Ue) at AC - max	690 V
Rated uninterrupted current (Iu)	100 A
Uninterrupted current	Rated uninterrupted current lu is specified for max. cross-section.
Short-circuit rating	
Rated conditional short-circuit current (Iq)	4 kA (Load side) 80 kA (Supply side)
Rated short-time withstand current (Icw)	2 kA
Short-circuit current rating (basic rating)	150A, max. Fuse, SCCR (UL/CSA) 10 kA, SCCR (UL/CSA)
Short-circuit protection rating	100 A gG/gL, Fuse, Contacts
Switching capacity	
Load rating	$2\times$ 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	1
Number of contacts in series at DC-23A, 48 V	2
Number of contacts in series at DC-23A, 60 V	2
Number of contacts in series at DC-23A, 120 V	3
Switching capacity (main contacts, general use)	100 A, If used with neutral conductor IU = max. 90 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) P600 (UL/CSA)
Rated making capacity up to 690 V (cos phi to IEC/EN 60947-3)	950 A
Voltage per contact pair in series	60 V
Motor rating	
Assigned motor power at 115/120 V, 60 Hz, 1-phase	5 HP

Mumber of auxiliary contacts (change-over contacts) Number of auxiliary contacts (normally closed contacts) Number of auxiliary contacts (normally closed contacts) Actuator Actuator		
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Assigned motor power at \$200,240 V, 60 Hz, 3-phase Assigned motor power at \$275,000 V, 60 Hz, 3-phase Assigned motor power at \$75,000 V, 60 Hz, 3-phase Assigned motor power at \$75,000 V, 60 Hz, 3-phase Assigned motor power at \$75,000 V, 60 Hz, 3-phase Contacts Central circuit reliability Number of auxiliary contacts (change over contacts) Number of auxiliary contacts (normally obesid contacts) Number of auxiliary contacts (normally open contacts) Actuator or Auxiliary contacts (normally open contacts) Actuator relor Actuator relor Actuator relor Actuator pe Design verification Equipment heat dissipation, current-dependent Pvid Heat dissipation or pole, current-dependent Pvid Heat dissipation or resistance of least dissipation (Ini) 100 A State, heat dissipation, not.—current-dependent Pvid Heat dissipation or resistance of least dissipation (Ini) 101 A State, heat dissipation, not.—current-dependent Pvid Heat dissipation of resistance of least dissipation (Ini) 102.23 Verification or thermal stability of enclosures Meets the product standard's requirements. 102.23 Verification or resistance of least-discist to normal heat Meets the product standard's requirements. 102.24 Resistance to utra-violet IUV radiation 102.5 (Mrng Does not apply, since the entire switchgear needs to be evaluated. 102.7 (Increptions Meets the product standard's requirements. 102.8 (Incremental least-fice) circuits and connections 103.7 (Incremental least-fice) circuits and connections 104.8 (Incremental least-fice) circuits and connections 105.8 (Incremental least	Assigned motor power at 200/208 V, 60 Hz, 3-phase	20 HP
Assigned motor power at 40,490 V, 60 Hz, 3-phase Contacts Contacts Central circuit reliability Number of auxiliary contacts (change-over contacts) Number of auxiliary contacts (normally open contacts) Actuator color Actuator color Actuator rype Short thursb-grip Black Actuator the at dissipation per pole, current-dependent Pvid Heat dissipation per pole, current-dependent Pvid Heat dissipation per pole, current-dependent Pvid Rated operational current for specified heat dissipation (n) 102.2 Corrosion resistance 102.32 Verification of themal stability of enclosures 102.32 Verification of resistance of insulating materials to normal heat 102.33 Picsis of insul. mat. to shorowal heat/fire by internal elect. effects 102.4 Resistance to ultra-violet (UV) radiation 102.5 Protection against electric above. 102.6 Protection of systemate and response distances 10.5 Protection of spink and components 10.6 Protection of systemate and response distances 10.7 Internal electrical circuits and components 10.8 Depres of protection of assembles 10.9 Protection of systemate and components 10.1 Protection of systemate and components 10.7 Internal electrical circuits and commonthes 10.8 Tenange and response distances 10.9 Protection of systemate and commonthes 10.9 Protection of systemate and commonthes 10.9 Protection of systemate and commonthes 10.9 Prover frequency electric strongent 10.1 Protection of systemate and commonthes 10.8 Tenangent and response distances 10.9 Protection of systemate and commonthes 10.1 Protection of systemate and commonthes 10.2 Prover frequency electric strongent 10.3 Protection of systemate and commonthes 10.4 Protection of systemate and commonthes 10.5 Protection of systemate and commonthes 10.6 Response of protection of systemate and commonthes 10.7 Internal electrical circuits and commonthes 10.8	Assigned motor power at 230/240 V, 60 Hz, 1-phase	15 HP
Assigned motor power at 575/980 V. 60 Hz, 3-phase Contacts Control circuit reliability If allure per 100,000 switching aperations statistically determined, at 24 V D.C. 1 m/N Number of auxiliary contacts (change-over contacts) Number of auxiliary contacts (normally closed contacts) Number of auxiliary contacts (normally closed contacts) Number of auxiliary contacts (normally closed contacts) Actuator Actuator (pre) Short thumb-grip Design verification Equipment heat dissipation, current-dependent Pvid Heat dissipation capacity Pdiss Heat dissipation capacity Pdiss Heat dissipation acpacity Pdiss Heat dissipation nor-current-dependent Pvid 10.2 Static heat dissipation, non-current-dependent Pvid 10.2.2 Corrosion resistance Meets the product standard's requirements. 10.2.3.1 Verification of resistance of insulating naterials to normal heat 10.2.3.2 Verification of resistance of insulating naterials to normal heat 10.2.3.3 Reast, of insul. nat. to obsernant heat/fire by internal elect, effects 10.2.4 Resistance to ultra-violet (IV) radiation 10.2.5 Lifting 10.2.6 Mechanical impact 10.2.7 Inscriptions Moets the product standard's requirements. Viresistance only in connection with protective shield. Does not apply, since the entire switchgear needs to be evaluated. 10.2.7 Inscriptions Moets the product standard's requirements. Viresistance only in connection with protective shield. Does not apply, since the entire switchgear needs to be evaluated. 10.2.6 Mechanical impact 10.2.7 Inscriptions Moets the product standard's requirements. Does not apply, since the entire switchgear needs to be evaluated. 10.2.7 Inscriptions Moets the product standard's requirements. Does not apply, since the entire switchgear needs to be evaluated. 10.2 Teneral elictrical circuits and accommendations 10.2 Connections for external coeductors 10.3 Protection of assemblies 10.4 Clearance and crepage distances 10.5 Protection of assemblies 10.6 Connections for external coeductors 10.8 Eneropeus b	Assigned motor power at 230/240 V, 60 Hz, 3-phase	25 HP
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	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.	10.13 Mechanical function	· · · · · · · · · · · · · · · · · · ·

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])

[AKF060018])			
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	Α	100
Rated permanent current at AC-23, 400 V	Α	100
Rated permanent current at AC-21, 400 V	Α	100
Rated operation power at AC-3, 400 V	kW	37
Rated short-time withstand current lcw	kA	2
Rated operation power at AC-23, 400 V	kW	55
Switching power at 400 V	kW	55
Conditioned rated short-circuit current Iq	kA	80
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		Complete device in housing
Suitable for floor mounting		Yes
Suitable for front mounting 4-hole		No
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		Screw connection
With pre-assembled cabling		No
Degree of protection (IP), front side		IP65
Degree of protection (NEMA)		12
Width	mm	200
Height	mm	280
Depth	mm	162
Width in number of modular spacings		