DATASHEET - P3-63/Z

On-Off switch, P3, 63 A, rear mounting, 3 pole, with black thumb grip and front plate



Part no.	P3-63/Z
	050591
EL Number	1456122
(Norway)	

General specifications

General specifications	
Product name	Eaton Moeller® series P3 On-Off switch
Part no.	P3-63/Z
EAN	4015080505914
Product Length/Depth	140 millimetre
Product height	87 millimetre
Product width	87 millimetre
Product weight	0.36 kilogram
Certifications	UL IEC/EN 60947 IEC/EN 60204 CSA-C22.2 No. 94 CSA UL Category Control No.: NLRV UL File No.: E36332 CE CSA-C22.2 No. 60947-4-1-14 UL 60947-4-1 CSA File No.: 012528 CSA Class No.: 3211-05 VDE 0660 IEC/EN 60947-3
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	Three-pole
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	Rear 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 Intermediate mounting 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 capacity	14 - 2 AWG, solid or flexible with ferrule
ionninai capaony	2 x (1.5 - 6) mm ² , flexible with ferrules to DIN 46228
	1 x (2.5 - 35) mm², solid or stranded 2 x (2.5 - 10) mm², solid or stranded
	1 x (1.5 - 25) mm ² , flexible with ferrules to DIN 46228
Screw size	M5, Terminal screw
Tightening torque	26.5 lb-in, Screw terminals 3 Nm, Screw terminals
lectrical rating	
Rated breaking capacity at 220/230 V (cos phi to IEC 60947-3)	640 A
Rated breaking capacity at 400/415 V (cos phi to IEC 60947-3)	600 A
Rated breaking capacity at 500 V (cos phi to IEC 60947-3)	590 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	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 (Ie) at AC-23A, 400 V, 415 V	63 A
Rated operational current (Ie) at AC-23A, 500 V	63 A
Rated operational current (Ie) at AC-23A, 690 V	63 A
Rated operational current (Ie) at DC-1, load-break switches I/r = 1 ms	63 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	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	18.5 kW
Rated operational power at AC-23A, 400 V, 50 Hz	30 kW
Rated operational power at AC-23A, 500 V, 50 Hz	45 kW
Rated operational power at AC-23A, 690 V, 50 Hz	55 kW
Rated operational voltage (Ue) at AC - min	690 V
Rated operational voltage (Ue) at AC - max	690 V
Rated uninterrupted current (lu)	63 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) 100 kA (Supply side)
Rated short-time withstand current (Icw)	1.26 kA
Short-circuit current rating (basic rating)	10 kA, SCCR (UL/CSA)
	150A, max. Fuse, SCCR (UL/CSA)
Short-circuit protection rating	80 A gG/gL, Fuse, Contacts
Switching capacity	
Load rating	2 x I# (with intermittent operation class 12, 25 % duty factor) 1.3 x I# (with intermittent operation class 12, 60 % duty factor) 1.6 x I# (with intermittent operation class 12, 40 % 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)	60 A, Rated uninterrupted current max. (UL/CSA)
Switching capacity (auxiliary contacts, general use)	10A, IU, (UL/CSA)
Switching capacity (auxiliary contacts, pilot duty)	P600 (UL/CSA) A600 (UL/CSA)

Rated making capacity up to 690 V (cos phi to IEC/EN 60947-3)	800 A
Voltage per contact pair in series	60 V
Motor rating	
Assigned motor power at 115/120 V, 60 Hz, 1-phase	3 HP
Assigned motor power at 200/208 V, 60 Hz, 1-phase	7.5 HP
Assigned motor power at 200/208 V, 60 Hz, 3-phase	15 HP
Assigned motor power at 230/240 V, 60 Hz, 1-phase	10 HP
Assigned motor power at 230/240 V, 60 Hz, 3-phase	15 HP
Assigned motor power at 460/480 V, 60 Hz, 3-phase	40 HP
Assigned motor power at 575/600 V, 60 Hz, 3-phase	50 HP
Contacts	
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	Door coupling rotary drive
Design verification	
	0 W
Equipment heat dissipation, current-dependent Pvid Heat dissipation capacity Pdiss	0W
Heat dissipation per pole, current-dependent Pvid	4.5 W
Rated operational current for specified heat dissipation (In)	63 A
Static heat dissipation, non-current-dependent Pvs	0W
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 8.0

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

Electric engineering, automation, process control engineering / Low-voltage switch technology / Off-load switch, circuit breaker, control switch / Switch disconnector (ecl@ss10.0.1-27-37-14-03 [AKF060013]) Version as main switch

rsion as maintenance-/service switch	No	

Version as reversing switch Nomber of switchs Nomber of switchs Number of switchs I I Max. rate operation voltage UA C SO SO Rated operation power at AC 23, 400 V SO SO Rated operation power at AC 23, 400 V SO SO Switching power at AC 23, 400 V SO SO Switching power at AC 23, 400 V SO SO Switching power at AC 23, 400 V SO SO Switching power at AC 23, 400 V SO SO Switching power at AC 23, 400 V SO SO Switching power at AC 23, 400 V SO SO Switching power at AC 23, 400 V SO SO Switching power at AC 23, 400 V SO SO <th></th> <th></th> <th></th>			
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Number of switches I Max rated operation voltage Ue AC V 600 Rated operation power at AC-23, 400 V V 600 Rated operation power at AC-23, 400 V V 800 Rated operation power at AC-23, 400 V V 800 Rated operation power at AC-23, 400 V V 800 Switching ower at AC-24, 400 V V 800 Switching ower at AC-23, 400 V V 800 Switching ower at AC-24, 400 V V 800 Switching ower at AC-24, 400 V V 800 Switching ower at AC-24, 400 V V 800 <	Version as emergency stop installation		No
Nar. ratio organization voltage U A Comparison voltage N Biologe Biol	Version as reversing switch		No
Rade operation outloge V 900-900 Rade operation outload A 900-900 Rade operation outload AC23, 400 V A 900-900 Rade operation outload AC23, 400 V KM 900-900 Rade operation outload AC23, 400 V KM 900-900 Rade operation outload AC23, 400 V KM 900-900 Rade operation power at AC23, 400 V KM 900-900 Rade operation power at AC23, 400 V KM 900-900 Switching nower at AC23, 400 V KM 900-900 Number of auxiliary contacts an ormally closed contact MM 900-900 Number of auxiliary contacts achange-out or contact M 900 Number of auxiliary contacts achange-out or contact M 900 Switable for four mounting 4-hole M <td>Number of switches</td> <td></td> <td>1</td>	Number of switches		1
Rated permanent current lu A 5 Rated permanent current at AC-23, 400 V A 6 Rated permanent current at AC-21, 400 V A 6 Rated permanent current at AC-23, 400 V KW 0 Rated operation power at AC-23, 400 V KW 0 Rated operation power at AC-23, 400 V KW 0 Switching power at AC-23, 400 V KW 0 Switching power at AC-23, 400 V KW 0 Conditioned rated short-circuit current lq KW 0 Number of auxiliary contacts as normally closed contact KM 0 Number of auxiliary contacts as normally closed contact KM 0 Number of auxiliary contacts as change-over contact KM 0 Number of auxiliary contacts as change-over contact No 0 Number of auxiliary contacts as change-over contact No 0 Sutable for finor mounting KM No 0 Sutable for finor mounting 4-bil Sitiah- Sitiah- Sitiaho No Sutable for finor mounting 4-bil Sitiaho Group Grou	Max. rated operation voltage Ue AC	V	690
And permanent current ta A2-32, 400 V A B Rated permanent current ta A2-31, 400 V A B Rated operation power ta A2-3, 400 V KW B Rated operation power ta A2-3, 400 V KW B Rated operation power ta A2-23, 400 V KW B Switchtime withstand current low KW B Switchtime your at 400 V KW B Conditioned rated short-circuit current lq KW B Number of pauliary contacts as normally closed contact G G Number of auxiliary contacts as normally closed contact G G Number of auxiliary contacts as normally closed contact G G Number of auxiliary contacts as normally closed contact G G Number of auxiliary contacts as normally closed contact G G Number of auxiliary contacts as normally closed contact G G Number of auxiliary contacts as normally closed contact G G Number of auxiliary contacts as normally closed contact G G Subte for form nounting -thole G G G	Rated operating voltage	V	690 - 690
Anard permanent current at AC-21, 400 V 6 Rated operation power at AC-3, 400 V 6 Rated operation power at AC-23, 400 V 6 Rated operation power at AC-23, 400 V 6 Switch ime withstand current low 6 Switch ime withstand current low 6 Switch ing power at AC-23, 400 V 8 Switch ing power at AC-23, 400 V 8	Rated permanent current lu	А	63
Rated operation power at AC-3, 400 V KW 0 Rated operation power at AC-3, 400 V KW 30 Rated operation power at AC-23, 400 V KW 30 Switching power at 400 V KW 30 Conditioned rated short-circuit current Iq KW 30 Number of poles KM 30 Number of auxiliary contacts as normally open contact KM 30 Number of auxiliary contacts as normally open contact KM 30 Number of auxiliary contacts as normally open contact KM 30 Number of auxiliary contacts as normally open contact KM 30 Number of auxiliary contacts as normally open contact KM 30 Number of auxiliary contacts as normally open contact KM 30 Number of auxiliary contacts as normally open contact KM No Number of auxiliary contacts as normally open contact No No Number of auxiliary contacts as normally open contact KM No Stable for form outring - beine -	Rated permanent current at AC-23, 400 V	А	63
Reted short-time withstand current low Image: Provide State St	Rated permanent current at AC-21, 400 V	А	63
Rated operation power at AC-23, 400 V KM Bit MM Bit	Rated operation power at AC-3, 400 V	kW	30
Weiching power at 400 VImage: Method with the second	Rated short-time withstand current lcw	kA	1.26
And the drade short-circuit current lq KA 10 Number of poles 3 3 Number of auxiliary contacts as normally closed contact 0 3 Number of auxiliary contacts as normally open contact 0 3 Number of auxiliary contacts as change-over contact 0 0 Number of auxiliary contacts as change-over contact 0 0 Number of auxiliary contacts as change-over contact 0 0 Number of auxiliary contacts as change-over contact 0 0 Number of auxiliary contacts as change-over contact 0 0 Number of auxiliary contacts as change-over contact 0 0 Notact drive integrated 0 0 0 Voltage release optional 0 0 0 0 Suitable for front mounting 4-hole Yes No 0	Rated operation power at AC-23, 400 V	kW	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 0 Motor drive integrated No Voltage release optional No Device construction No Suitable for floor mounting Yes Suitable for front mounting entre No Suitable for distribution board installation Yes Suitable for instruction stallation Yes Suitable for instruction dementing Yes Suitable for instruction functing centre Yes Suitable for instruction functing centre Yes Suitable for instruction functing centre Yes Suitable for instruction functing Yes Colour control element Yes Type of control element Yes Type of electrical connec	Switching power at 400 V	kW	30
Number of auxiliary contacts as normally closed contactImage of auxiliary contacts as normally open contactImage of auxil	Conditioned rated short-circuit current Iq	kA	100
Number of auxiliary contacts as normally open contactImage of auxiliary contacts as normally open contactImage of auxiliary contacts as normally open contactNumber of auxiliary contacts as normally open contactImage of auxiliary contacts as normally open contactImage of auxiliary contacts as normally open contactMotor drive optionalImage of auxiliary contacts as normally open contactImage of auxiliary contacts as normally open contactMotor drive optionalImage of auxiliary contacts as normally open contactImage of auxiliary contacts as normally open contactMotor drive optionalImage of auxiliary contacts as normally open contactImage of auxiliary contacts as normally open contactVoltage release optionalImage of auxiliary contacts as normally open contactImage of auxiliary contacts as normally open contactVoltage release optionalImage of auxiliary contacts as normally open contactImage of auxiliary contacts as normally open contactSuitable for front mounting 4-holeImage of auxiliary contacts and installationImage of auxiliary contacts and installationSuitable for intermediate mountingImage of auxiliary control elementImage of auxiliary control elementSuitable for intermediate mountingImage of auxiliary contact driveImage of auxiliary contact driveSuitable for intermediate mountingImage of auxiliary contact driveImage of auxiliary contact driveSuitable for intermediate mountingImage of auxiliary contact driveImage of auxiliary contact driveSuitable for intermediate mountingImage of auxiliary contact driveImage of auxiliary contact driveSuit	Number of poles		3
Number of auxiliary contacts as change-over contact Image: Participation Image: Participa	Number of auxiliary contacts as normally closed contact		0
Motor drive optional No Motor drive integrated No Voltage release optional No Device construction Suit-in device fixed built-in technique Suitable for floor mounting Built-in device fixed built-in technique Suitable for front mounting 4-hole Yes Suitable for front mounting centre No Suitable for fixer mounting centre No Suitable for intermediate mounting Yes Solutable for not noting Yes Solutable for intermediate mounting Yes Suitable for intermediate mounting Yes <t< td=""><td>Number of auxiliary contacts as normally open contact</td><td></td><td>0</td></t<>	Number of auxiliary contacts as normally open contact		0
Motor drive integrated Mode drive integrated	Number of auxiliary contacts as change-over contact		0
Voltage release optional No Device construction Built- in device fixed built-in technique Suitable for floor mounting He Built- in device fixed built-in technique Suitable for floor mounting 4-hole Ves No Suitable for front mounting centre No No Suitable for distribution board installation He No Suitable for intermediate mounting He No Colour control element He Suitable for distribution board installation Type of electrical connection of main circuit He Suitable for distribution board installation Type of electrical connection (IP), front side He Suitable for distribution board installation	Motor drive optional		No
Device construction Built-in device fixed built-in technique Suitable for floor mounting Yes Suitable for front mounting 4-hole No Suitable for front mounting centre No Suitable for fixed built-in technique No Suitable for fixed built-in technique No Suitable for front mounting centre No Suitable for distribution board installation Yes Suitable for intermediate mounting Yes Colour control element Yes Type of control element Soor coupling rotary drive Interlockable No Type of electrical connection of main circuit Soor coupling rotary drive Type of electrical connection (IP), front side Soor couplication	Motor drive integrated		No
Suitable for floor mounting Image: Sector of the secto	Voltage release optional		No
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 Mo Type of control element Mo Interlockable Mo Type of electrical connection of main circuit Mo Degree of protection (IP), front side Mo	Device construction		Built-in device fixed built-in technique
Suitable for front mounting centreImage: Section of the	Suitable for floor mounting		Yes
Suitable for distribution board installation Image: Constraint of the sector of th	Suitable for front mounting 4-hole		No
Suitable for intermediate mountingMainMainMainSuitable for intermediate mountingMainMainMainColour control elementMainMainMainType of control elementMainMainMainInterlockableMainMainMainType of electrical connection of main circuitMainScrew connectionDegree of protection (IP), front sideMainMain	Suitable for front mounting centre		No
Colour control elementMarkBlackType of control elementDor coupling rotary driveInterlockableNoType of electrical connection of main circuitMarkDegree of protection (IP), front sideMarkInterlockableInterl	Suitable for distribution board installation		No
Type of control element Description Interlockable No Type of electrical connection of main circuit Consection Degree of protection (IP), front side Image: Consection circuit	Suitable for intermediate mounting		Yes
Interlockable No Type of electrical connection of main circuit Image: Connection (IP), front side Screw connection Degree of protection (IP), front side Image: Connection Connection (IP), front side Image: Connection Connection (IP), front side	Colour control element		Black
Type of electrical connection of main circuit Screw connection Degree of protection (IP), front side IP65	Type of control element		Door coupling rotary drive
Degree of protection (IP), front side	Interlockable		No
	Type of electrical connection of main circuit		Screw connection
Degree of protection (NEMA) 12	Degree of protection (IP), front side		IP65
	Degree of protection (NEMA)		12