DATASHEET - P3-63/XZ



P3, 63 A, Basic switch

Part no. P3-63/XZ Catalog No. 046314



Similar to illustration

Delivery program			
Product range			Main switch maintenance switch Repair switch
Part group reference			P3
Information about equipment supplied			Auxiliary contact or neutral conductor fitted by user.
Number of poles			3 pole
Auxiliary contacts			
1		N/0	0
7		N/C	0
Degree of Protection			Front IP65
Design			Basic switch
Motor rating AC-23A, 50 - 60 Hz			
400 V	P	kW	30
Rated uninterrupted current	l _u	Α	63
Note on rated uninterrupted current $\boldsymbol{!}_{\boldsymbol{u}}$			Rated uninterrupted current $\boldsymbol{I}_{\boldsymbol{u}}$ is specified for max. cross-section.

Technical data

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Standards			IEC/EN 60947, VDE 0660, IEC/EN 60204 Switch-disconnector according to IEC/EN 60947-3
Climatic proofing			Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30
Ambient temperature			
Open		°C	-25 - +50
Enclosed		°C	-25 - +40
Overvoltage category/pollution degree			III/3
Rated impulse withstand voltage	U_{imp}	V AC	6000
Mechanical shock resistance		g	15
Mounting position			As required
Contacts			
Mechanical variables			
Number of poles			3 pole
Auxiliary contacts			
		N/O	0
		N/C	0
Electrical characteristics			
Rated operational voltage	U _e	V AC	690
Rated uninterrupted current	I _u	Α	63
Note on rated uninterrupted current !u			Rated uninterrupted current $\mathbf{I}_{\mathbf{u}}$ is specified for max. cross-section.
Load rating with intermittent operation, class 12			
AB 25 % DF		x I _e	2
AB 40 % DF		x I _e	1.6
AB 60 % DF		x I _e	1.3
Short-circuit rating			

perations	kA A A A A A V AC W x 10 ⁶	1260 Current for a time of 1 second 4 800 640 600 590 340 440 4.5 > 0.1
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oerations/h	X 10	
oerations/h		1200
		1200
	kW	
		15
		30
		30
		30
	KVV	30
	A	51
		55
		44
	Α	22.1
	Α	63
	kW	
	kW	18.5
	kW	30
	kW	45
	kW	55
	Α	63
	Α	63
	Α	63
	А	63
	Α	63
	٧	60
	Α	50
	Α	50
	Quantity	
	-aumity	4
		kW kW kW kW A A A A Cuantity

Contacts Quantity 120 V 4 5 Contracts 0ustriey 3 Contract circuit reliability at 24 V DC, 10 mA Fault No 20 Contract circuit reliability at 24 V DC, 10 mA Fault No 2 1 x (25 - 25) Contract circuit reliability at 24 V DC, 10 mA mom² 1 x (25 - 25) 1 x (25 - 25) Salid or stranded mom² 1 x (15 - 25) 2 x (23 - 10) Flexible with ferroles to DIN 46228 mom² 1 x (15 - 25) 2 x (23 - 10) Terminal screw mom² 1 x (15 - 25) 2 x (23 - 10) Terminal screw mom² 1 x (15 - 25) 2 x (23 - 10) Terminal screw mom² No 3 Terminal screw mom² No 3 Terminal screw mom² No 4 Terminal screw mom² pom² 2 x (15 - 10) Terminal screw mom² pom² 2 x (15 - 10) Terminal screw mom² pom² 2 x (15 - 10) Terminal screw <t< th=""><th></th><th></th><th></th><th></th></t<>				
120 V Rated operational current	Rated operational current	l _e	Α	50
Rated operational current Figure Contracts Contract circuit reliability at 24 VDC, 10 MA Figure Fig	Contacts		Quantity	2
Contracts Quantity 9 current of circuit reliability at 2 V DC, 10 mA Faul probability 4 c 10 % 1 follure in 100,003 switching operations Terminal capacities File of the probability 4 x 1,5 2,5 39 2 x 1,5	120 V			
Part	Rated operational current	I _e	Α	25
Perminal capacities	Contacts		Quantity	3
	Control circuit reliability at 24 V DC, 10 mA	Fault probability	H _F	< 10 ⁻⁵ ,< 1 failure in 100,000 switching operations
	Terminal capacities			
Teminal screw	Solid or stranded		mm ²	1 x (2,5 - 35) 2 x (2,5 - 10)
Tightening torque for terminal screw Nm 9 Technical safety parameters: Very Selection of Selection (Assert parameters) Book Selection (Assert paramete	Flexible with ferrules to DIN 46228		mm ²	
Notes 8 log values as per EN ISO 13849-1, table C1 Rating data for approved types Contacts 600 Rated operational voltage Ue VAC 600 Rated uninterrupted current max. A 60 Auxiliary contacts A 60 General Use Iu A 10 Pilot Duty A 10 Wakinking capacity A 600 Switching capacity HP 3 Single-phase HP 75 200 V AC HP 75 240 V AC HP 15 480 V AC HP 15 480 V AC HP 15 8boti Cruit Current Rating SCC HP 15 8boti Cruit Current Rating SCC HP 15 8boti Cruit Current Rating RD 15 15 8boti Cruit Current Rating <t< td=""><td>Terminal screw</td><td></td><td></td><td>M5</td></t<>	Terminal screw			M5
Notes Billing values as per ENISO 13849-1, table C1 Rating data for approved types VAC 600 Rated perishonal voltage y AC 600 Rated uninterrupted current max. y AC 600 Main conducting paths y AC 600 General use y AC 600 Auxiliary contacts y AC 600 Pilot Duty AC 600 ACC Pilot Duty ACC ACC ACC Switching capacity Y Y ACC Maximum motor rating Y Y Y Single-phase Y Y Y 120 V AC HP 3 200 V AC HP 15 480 V AC HP 15 480 V AC HP 15 480 V AC HP 10 480 V AC HP 10 480 V AC HP 10 480 V AC HP 10 <tr< td=""><td>Tightening torque for terminal screw</td><td></td><td>Nm</td><td>3</td></tr<>	Tightening torque for terminal screw		Nm	3
Rated operational voltage				
Contacts Ue VAC 600 Rated uninterrupted current max. Feed uninterrupted uninterrupted current max. Feed uninterrupted uninterrupted current max. Feed uninterrupted	Notes			B10 _d values as per EN ISO 13849-1, table C1
Rated operational voltage Ue VAC 600 Rated uninterrupted current max. Wain conducting paths Ceneral use A 60 Auxiliary contacts Iu A 10 General Use Iu A 10 Piot Duty A A 600 Switching capacity A A 600 Maximum motor rating Fig. 1 YAC P600 Single-phase HP 3 3 200 V AC HP 3 3 200 V AC HP 10 4 Three-phase HP 15 4 200 V AC HP 15 4 480 V AC HP 15 4 480 V AC HP 15 4 600 V AC HP 10 4 600 V AC HP 15 4 8 basic Rating A A 10 Basic Rating A A 10 Ba				
Rated uninterrupted current max. Main conducting paths AB Because of General use AB			V 40	
Main conducting paths A 60 Auxiliary contacts 10 10 General Use 10 4600 Pilot Duty A 600 4600 Switching capacity 7600 7600 Single-phase 77 77 120 V AC 140 7.5 240 V AC 140 15 200 V AC 140 15 240 V AC 140 40 480 V AC 140 40 600 V AC 140 40 800 V AC 140 15 800 V AC 140 10 800 V AC 140 10 800 V AC 140 10 800 V AC 140 10 <t< td=""><td></td><td>U_e</td><td>V AC</td><td>600</td></t<>		U _e	V AC	600
Auxiliary contacts				
Auxiliary contacts Iu A 10 General Use Iu A 600 p 600 Pilot Duty A 600 p 600 Switching capacity F 600 Maximum motor rating F 7 Single-phase F 8 120 V AC HP 3 200 V AC HP 7.5 240 V AC HP 10 200 V AC HP 15 240 V AC HP 15 480 V AC HP 15 480 V AC HP 10 480 V AC HP 10 480 V AC HP 10 800 V AC HP 10 800 V AC HP 10 900 V AC HP 10 100 V AC HP 10				
Filot Duty			Α	60
Pilot Duty A 600 per 600 Switching capacity Common of the pilot place of				
Switching capacity P 600 Maximum motor rating Company of the plane 120 V AC HP 3 200 V AC HP 7.5 240 V AC HP 10 Three-phase HP 15 200 V AC HP 15 480 V AC HP 40 480 V AC HP 50 480 V AC HP 50 5hort Circuit Current Rating SCCR 10 Short Circuit Current Rating KA 10 max. Fuse A 150 Terminal capacity AWG 14-2	General Use	lu	Α	10
Maximum motor rating Image: Comparing of the pass	Pilot Duty			
Single-phase HP 3 200 V AC HP 7.5 240 V AC HP 10 Three-phase Three-phase 200 V AC HP 15 240 V AC HP 15 480 V AC HP 40 600 V AC HP 50 Short Circuit Current Rating SCCR Basic Rating KA 10 max. Fuse A 150 Terminal capacity AWG 14 - 2	Switching capacity			
120 V AC HP 3 200 V AC HP 7.5 240 V AC HP 10 200 V AC HP 15 240 V AC HP 15 480 V AC HP 40 600 V AC HP 50 Short Circuit Current Rating SCCR Basic Rating KA 10 max. Fuse A 150 Terminal capacity AWG 14 - 2	Maximum motor rating			
200 V AC HP 7.5 240 V AC HP 10 Three-phase HP 15 200 V AC HP 15 240 V AC HP 15 480 V AC HP 40 600 V AC HP 50 Short Circuit Current Rating SCCR SCCR Basic Rating KA 10 max. Fuse A 150 Terminal capacity AWG 14-2	Single-phase			
240 V AC HP 10 Three-phase 15 240 V AC HP 15 480 V AC HP 40 600 V AC HP 50 Short Circuit Current Rating SCCR Basic Rating kA 10 max. Fuse A 150 Terminal capacity AWG 14-2	120 V AC		HP	3
Three-phase HP 15 240 V AC HP 15 480 V AC HP 40 600 V AC HP 50 Short Circuit Current Rating SCCR Basic Rating KA 10 max. Fuse A 150 Terminal capacity AWG 14 - 2	200 V AC		HP	7.5
200 V AC HP 15 240 V AC HP 15 480 V AC HP 40 600 V AC HP 50 Short Circuit Current Rating SCCR	240 V AC		HP	10
240 V AC HP 15 480 V AC HP 40 600 V AC HP 50 Short Circuit Current Rating SCCR	Three-phase			
480 V AC HP 40 600 V AC HP 50 Short Circuit Current Rating SCCR SCCR Basic Rating KA 10 max. Fuse A 150 Terminal capacity Solid or flexible conductor with ferrule AWG 14 - 2	200 V AC		HP	15
600 V ACHP50Short Circuit Current RatingSCCR	240 V AC		HP	15
Short Circuit Current Rating Basic Rating max. Fuse A 150 Terminal capacity Solid or flexible conductor with ferrule SUCR KA 10 A 150 AWG 14-2	480 V AC		HP	40
Basic Rating kA 10 max. Fuse A 150 Terminal capacity AWG 14 - 2	600 V AC		HP	50
max. Fuse A 150 Terminal capacity Solid or flexible conductor with ferrule AWG 14 - 2	Short Circuit Current Rating		SCCR	
Terminal capacity Solid or flexible conductor with ferrule AWG 14 - 2	Basic Rating		kA	10
Solid or flexible conductor with ferrule AWG 14 - 2	max. Fuse		Α	150
Solid or flexible conductor with ferrule AWG 14 - 2	Terminal capacity			
Terminal screw M5	Solid or flexible conductor with ferrule		AWG	14 - 2
	Terminal screw			M5

Design verification as per IEC/EN 61439

Tightening torque

boolgii voi modulon do por 120/211 or 100			
Technical data for design verification			
Rated operational current for specified heat dissipation	In	Α	63
Heat dissipation per pole, current-dependent	P _{vid}	W	4.5
Equipment heat dissipation, current-dependent	P_{vid}	W	0
Static heat dissipation, non-current-dependent	P_{vs}	W	0
Heat dissipation capacity	P _{diss}	W	0
Operating ambient temperature min.		°C	-25
Operating ambient temperature max.		°C	50
IEC/EN 61439 design verification			
10.2 Strength of materials and parts			
10.2.2 Corrosion resistance			Meets the product standard's requirements.

lb-in

26.5

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 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric 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 Insulation properties	
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 7.0

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])

[AKI 0000 TO])		
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	63
Rated permanent current at AC-23, 400 V	Α	63
Rated permanent current at AC-21, 400 V	Α	63
Rated operation power at AC-3, 400 V	kW	30
Rated short-time withstand current lcw	kA	1.26
Rated operation power at AC-23, 400 V	kW	30
Switching power at 400 V	kW	30
Conditioned rated short-circuit current Iq	kA	4
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 ground 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	Other
Type of control element	Other
Interlockable	No
Type of electrical connection of main circuit	Screw connection
Degree of protection (IP), front side	IP65
Degree of protection (NEMA)	Other

Assets (links)

Declaration of CE Conformity

00003104

Additional product information (links)

Ordering form for SOND switches and SOND front plates(DE_EN)	$ftp://ftp.moeller.net/DOCUMENTATION/PDF/MZ008005ZU_Orderform_Customized_Switch.pdf$
Ordering form for SOND switches and SOND front plates(DE_EN)	$ftp://ftp.moeller.net/DOCUMENTATION/PDF/MZ008006ZU_Orderform_Customized_Switch.pdf$