DATASHEET - P3-100/I5-RT

On-Off switch, P3, 100 A, surface mounting, 3 pole, Emergency switching off function, with red thumb grip and yellow front plate



P3-100/I5-RT Part no. 207382 **General specifications** Product name Eaton Moeller® series P3 On-Off switch P3-100/I5-RT Part no. EAN 4015082073824 Product Length/Depth 162 millimetre 280 millimetre Product height 200 millimetre Product width Product weight 1.46 kilogram Certifications UL CSA IEC/EN 60947 IEC/EN 60947-3 VDE 0660 IEC/EN 60204 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** Features Version as emergency stop installation Fitted with: Red thumb grip and yellow front plate Functions Emergency switching off function 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 Surface mounting Mounting method Mounting position As required **Operating frequency** 1200 Operations/h ш Overvoltage category 3 Pollution degree Rated impulse withstand voltage (Uimp) 6000 V AC Safe isolation 440 V AC, Between the contacts, According to EN 61140 B10d values as per EN ISO 13849-1, table C.1 Safety parameter (EN ISO 13849-1) Shock resistance 15 g, Mechanical, According to IEC/EN 60068-2-27, Half-sinusoidal shock 20 ms Suitable for Ground mounting **Climatic environmental conditions** Ambient operating temperature - min -25 °C 40 °C Ambient operating temperature - max -25 °C Ambient operating temperature (enclosed) - min 40 °C Ambient operating temperature (enclosed) - max **Climatic proofing** Damp heat, cyclic, to IEC 60068-2-30 Damp heat, constant, to IEC 60068-2-78 **Terminal capacities** Terminal capacity 1 x (1.5 - 25) mm², flexible with ferrules to DIN 46228 $2 \times (2.5 - 10) \text{ mm}^2$, solid or stranded $1 \times (2.5 - 35) \text{ mm}^2$, solid or stranded

 $2 \times (1.5 - 6) \text{ mm}^2$, flexible with ferrules to DIN 46228

14 - 2 AWG, solid or flexible with ferrule

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Rated operational power at AC-38, 200, 200 V, 50 Hz 37 kW Rated operational power at AC-38, 200, 200 V, 50 Hz 30 kW Rated operational power at AC-38, 400 V, 50 Hz 55 kW Rated operational power at AC-38, 800 V, 50 Hz 56 kW Rated operational power at AC-38, 800 V, 50 Hz 56 kW Rated operational power at AC-38, 800 V, 50 Hz 680 V Rated operational power at AC-38, 800 V, 50 Hz 680 V Rated operational voltage (Le) at AC - max 680 V Rated operational voltage (Le) at AC - max 680 V Rated ouninterrupted current (lu) 100 A Uninterrupted current (lu) 44. (Load side) Rated ouninterrupted current (lew) 44. (Load side) Short-circuit rating 44. (Load side) Rated ouninterrupted current (lew) 44. (Load side) Short-circuit current rating (Dasie rating) 44. (Load side) Short-circuit rating capacity 24. kW Number of contacts in series at DC-284, 24V 1 Number of contacts in series at DC-284, 80V 2 Number of contacts in series at DC-284, 80V 1 Number of contacts in series at DC-284, 80V 1 Number of contacts in series at DC-284, 102V		
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Rated short-time withstand current (Icw) 80 kA (Supply side) Rated short-time withstand current (Icw) 2 kA Short-circuit current rating (basic rating) 10 kA, SCCR (UL/CSA) Short-circuit protection rating 10 A gG/gL, Fuse, Contacts Switching capacity 2 k # (with intermittent operation class 12, 25 % duty factor) Load rating 2 k # (with intermittent operation class 12, 25 % 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, 48 V 2 Number of contacts in series at DC-23A, 120 V 3 Switching capacity (main contacts, general use) 3 Switching capacity (axiliary contacts, general use) 10A, Il used with neutral conductor IU = max. 90 A, Rated uninterrupted current max. (IU/CSA) Switching capacity up to 690 V (cos phi to IEC/EN 60947-3) 90 A Yoltage per contactpi in series 60 V	-	A kA (Load side)
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Short-circuit protection rating 150A, max. Fuse, SCCR (UL/CSA) Short-circuit protection rating 100 A gG/gL, Fuse, Contacts Switching capacity 2 x I# (with intermittent operation class 12, 25 % duty factor) Load rating 2 x I# (with intermittent operation class 12, 25 % 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, 40 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) Rated making capacity up to 690 V (cos phi to IEC/EN 60947-3) 950 A Voltage per contact pair in series 550 A Voltage per contact pair in series 60 V	Rated short-time withstand current (Icw)	2 kA
Switching capacity Image: Construct of contacts in series at DC-23A, 24 V Image: Construct of contacts in series at DC-23A, 48 V Image: Construct of contacts in series at DC-23A, 60 V Image: Construct of contacts in series at DC-23A, 60 V Image: Construct of contacts in series at DC-23A, 20 V Image: Construct of contacts in series at DC-23A, 60 V Image: Construct of contacts in series at DC-23A, 20 V Image: Construct of contacts in series at DC-23A, 20 V Image: Construct of contacts in series at DC-23A, 20 V Image: Construct of contacts in series at DC-23A, 20 V Image: Construct of contacts in series at DC-23A, 20 V Image: Construct of contacts in series at DC-23A, 20 V Image: Construct of contacts in series at DC-23A, 20 V Image: Construct of contacts in series at DC-23A, 20 V Image: Construct of contacts in series at DC-23A, 20 V Image: Construct of contacts in series at DC-23A, 20 V Image: Construct of contacts in series at DC-23A, 20 V Image: Construct of contacts in series at DC-23A, 20 V Image: Construct of contacts in series at DC-23A, 20 V Image: Construct of contacts in series at DC-23A, 20 V Image: Construct of Constend of Con	Short-circuit current rating (basic rating)	
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Number of contacts in series at DC-23A, 24 V1.3 x l# (with intermittent operation class 12, 60 % duty factor) 1.6 x l# (with intermittent operation class 12, 40 % duty factor) 1.6 x l# (with intermittent operation class 12, 40 % duty factor) 1.6 x l# (with intermittent operation class 12, 40 % duty factor) 1.6 x l# (with intermittent operation class 12, 40 % duty factor) 1.6 x l# (with intermittent operation class 12, 40 % duty factor) 1.6 x l# (with intermittent operation class 12, 40 % duty factor)Number of contacts in series at DC-23A, 24 V2Number of contacts in series at DC-23A, 60 V2Number of contacts in series at DC-23A, 120 V3Switching 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)104, IU, (UL/CSA)Switching capacity (auxiliary contacts, pilot duty)950 ARated making capacity up to 690 V (cos phi to IEC/EN 60947-3)950 AVoltage per contact pair in series60 V	Switching capacity	
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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) 10A, IU, UL/CSA) Rated making capacity up to 690 V (cos phi to IEC/EN 60947-3) 500 A Voltage per contact pair in series 60 V Motor rating 60 V	Number of contacts in series at DC-23A, 24 V	1
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, general use) 10A, IU, UL/CSA) Rated making capacity up to 690 V (cos phi to IEC/EN 60947-3) 500 A Voltage per contact pair in series 500 A Motor rating 600 V	Number of contacts in series at DC-23A, 48 V	2
Switching capacity (main contacts, general use) Image: Cup/CSA) Switching capacity (auxiliary contacts, general use) Image: Cup/CSA) Switching capacity (auxiliary contacts, pilot duty) Image: Cup/CSA) Rated making capacity up to 690 V (cos phi to IEC/EN 60947-3) Image: Cup/CSA) Voltage per contact pair in series Image: Cup/CSA) Motor rating Image: Cup/CSA)	Number of contacts in series at DC-23A, 60 V	2
Switching capacity (auxiliary contacts, general use)max. (UL/CSA)Switching capacity (auxiliary contacts, pilot duty)10A, IU, (UL/CSA)Rated making capacity up to 690 V (cos phi to IEC/EN 60947-3)4600 (UL/CSA)Voltage per contact pair in series500 AMotor rating600 V	Number of contacts in series at DC-23A, 120 V	3
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 61 P	Switching capacity (main contacts, general use)	
Rated making capacity up to 690 V (cos phi to IEC/EN 60947-3) P600 (UL/CSA) Voltage per contact pair in series 950 A Motor rating 60 V	Switching capacity (auxiliary contacts, general use)	10A, IU, (UL/CSA)
Voltage per contact pair in series 60 V Motor rating	Switching capacity (auxiliary contacts, pilot duty)	
Motor rating	Rated making capacity up to 690 V (cos phi to IEC/EN 60947-3)	950 A
-	Voltage per contact pair in series	60 V
Assigned motor power at 115/120 V, 60 Hz, 1-phase 5 HP	Motor rating	
	Assigned motor power at 115/120 V, 60 Hz, 1-phase	5 HP

Assigned motor power at 200/208 V, 60 Hz, 1-phase	10 HP
Assigned motor power at 200/208 V, 60 Hz, 3-phase	20 HP
Assigned motor power at 230/240 V, 60 Hz, 1-phase	15 HP
Assigned motor power at 230/240 V, 60 Hz, 3-phase	25 HP
Assigned motor power at 460/480 V, 60 Hz, 3-phase	60 HP
Assigned motor power at 575/600 V, 60 Hz, 3-phase	75 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	Red
Actuator type	Short thumb-grip
Design verification	
Equipment heat dissipation, current-dependent Pvid	7.5 W
Heat dissipation capacity Pdiss	0 W
Heat dissipation per pole, current-dependent Pvid	7.5 W
Rated operational current for specified heat dissipation (In)	100 A
Static heat dissipation, non-current-dependent Pvs	0.00
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
 No

 Version as maintenance-/service switch
 No

 Version as safety switch
 No

No

No

1

Version as emergency stop installation Version as reversing switch

Number of switches

10/13/2023

Max. rated operation voltage Ue AC	V	690
Rated operating voltage	V	690 - 690
Rated permanent current lu	А	100
Rated permanent current at AC-23, 400 V	А	100
Rated permanent current at AC-21, 400 V	А	100
Rated operation power at AC-3, 400 V	kW	37
Rated short-time withstand current Icw	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		Red
Type of control element		Short thumb-grip
Interlockable		No
Type of electrical connection of main circuit		Screw connection
Degree of protection (IP), front side		IP65
Degree of protection (NEMA)		12