Eaton 029203

Eaton Moeller® series MCS Pressure switch, 3p, 15bar

PRODUCT NAME	Eaton Moeller® series MCS Pressure switch
CATALOG NUMBER	029203
PRODUCT LENGTH/DEPTH	96 mm
PRODUCT HEIGHT	111 mm
PRODUCT WIDTH	60 mm
PRODUCT WEIGHT	0.467 kg
CERTIFICATIONS	CSA Class No.: 3211-06 IEC/EN 60947-4-1 CSA File No.: 012528 CSA-CC22.2 No. 14 CSA
CATALOG NOTES	 Note on use: This product complies with Low-Voltage Directive 2014/35/EC and EMC Directive 2014/30/EC and meets the requirements in EN 60947-5-1. This product does not meet the rail industry's standard requirements. Accordingly, the user must review it separately for the specific application at hand. If required: pressure pipe flange R ¼"



SUITABLE AS FEATURES Variable switching differential THREAD SIZE 1/2 inch ELECTRIC CONNECTION Screw connection POPERATING FREQUENCY POLLUTION DEGREE ACTUATOR DIAMETER ADJUSTABLE CURRENT RANGE - MAX ADJUSTABLE CURRENT RANGE - MIN AMBIENT OPERATING TEMPERATURE - MAX AMBIENT OPERATING TEMPERATURE - MIN BURSTING PRESSURE COORDINATION TYPE END SETTING - MAX END SETTING - MIN END VALUE MEASURING RANGE PRESSURE ENGAGING PRESSURE ENGAGING PRESSURE ENGAGING PRESSURE ENGAGING PRESSURE INITIAL SETTING - MAX INITIAL SETTING - MIN INITIAL VALUE MEASURING RANGE PRESSURE MEDIUM TEMPERATURE - MAX MEDIUM TEMPERATURE - MO PA MEDIUM TEMPERATURE - WAS NUMBER OF AUXILIARY CONTACTS (NORMALLY CLOSED CONTACTS) NUMBER OF AUXILIARY CONTACTS (NORMALLY CLOSED CONTACTS (NORMALLY CLOSED CONTACTS) NUMBER OF AUXILIARY CONTACTS (NORMALLY CLOSED CONTACTS (NORMALLY CLOSED CONTACTS) NUMBER OF AUXILIARY CONTACTS (NORMALLY CLOSED CONTACTS (NORMALLY CLOSED CONTACTS)		
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ACTUATOR DIAMETER 0 mm ADJUSTABLE CURRENT RANGE - MAX ADJUSTABLE CURRENT RANGE - MIN AMBIENT OPERATING TEMPERATURE - MAX AMBIENT OPERATING TEMPERATURE - MIN BURSTING PRESSURE 90 bar COORDINATION TYPE 1 END SETTING - MAX 0 hPa END SETTING - MIN 0 hPa END VALUE MEASURING RANGE PRESSURE 9.4 bar INITIAL SETTING - MIN 0 hPa INITIAL VALUE MEASURING NHPA INITIAL VALUE MEASURING O PA MEDIUM TEMPERATURE - 80 °C MAX MEDIUM TEMPERATURE - 25 °C NUMBER OF AUXILIARY CONTACTS (NORMALLY CONTACTS (NORMALLY CLOSED CONTACTS) NUMBER OF AUXILIARY CONTACTS (NORMALLY CLOSED CONTACTS) NUMBER OF AUXILIARY CONTACTS (NORMALLY CLOSED CONTACTS)		Screw connection
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RANGE - MIN AMBIENT OPERATING TEMPERATURE - MAX AMBIENT OPERATING TEMPERATURE - MIN BURSTING PRESSURE COORDINATION TYPE END SETTING - MAX END SETTING - MIN END VALUE MEASURING RANGE PRESSURE ENGAGING PRESSURE - MAX ENGAGING PRESSURE - MIN INITIAL SETTING - MAX INITIAL SETTING - MIN INITIAL SETTING - MIN INITIAL VALUE MEASURING RANGE PRESSURE MEDIUM TEMPERATURE - MAX MEDIUM TEMPERATURE - MIN NUMBER OF AUXILIARY CONTACTS (CHANGE- OVER CONTACTS) NUMBER OF AUXILIARY CONTACTS (NORMALLY CLOSED CONTACTS) NUMBER OF AUXILIARY CONTACTS (NORMALLY CLOSED CONTACTS)		0 A
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END SETTING - MAX	BURSTING PRESSURE	90 bar
END SETTING - MIN 0 hPa END VALUE MEASURING RANGE PRESSURE 0 Pa ENGAGING PRESSURE - MAX 9.4 bar INITIAL SETTING - MAX 0 hPa INITIAL SETTING - MIN 0 hPa INITIAL VALUE MEASURING RANGE PRESSURE MEDIUM TEMPERATURE - MAX 80 °C MEDIUM TEMPERATURE - MAX 25 °C NUMBER OF AUXILIARY CONTACTS (CHANGE- OVER CONTACTS) NUMBER OF AUXILIARY CONTACTS (NORMALLY CLOSED CONTACTS) NUMBER OF AUXILIARY 0	COORDINATION TYPE	1
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NUMBER OF AUXILIARY CONTACTS (CHANGE- OVER CONTACTS) NUMBER OF AUXILIARY CONTACTS (NORMALLY CLOSED CONTACTS) NUMBER OF AUXILIARY		80 °C
CONTACTS (CHANGE- OVER CONTACTS) NUMBER OF AUXILIARY CONTACTS (NORMALLY CLOSED CONTACTS) NUMBER OF AUXILIARY		25 °C
CONTACTS (NORMALLY 0 CLOSED CONTACTS) NUMBER OF AUXILIARY	CONTACTS (CHANGE-	0
0	CONTACTS (NORMALLY	0
		0

CHARACTERISTIC CURVE	eaton-pressure-switches- diagram-mcs-pressure- switch-characteristic- curve-005.eps
DECLARATIONS OF CONFORMITY	DA-DC-00004633.pdf
CONFORMITY	<u>DA-DC-00004628.pdf</u>
MCAD MODEL	mcs_n.dwg mcs_n.stp
	<u>IL05212001Z</u>
	eaton-pressure-switches-
	switch-mcs-pressure-
	switch-dimensions-
	<u>004.eps</u>
	eaton-pressure-switches-
	switch-mcs-pressure-
	switch-dimensions.eps
	eaton-pressure-switches-
	mcs-pressure-switch-
	<u>dimensions.eps</u>
	eaton-pressure-switches-
	switch-mcs-pressure-
	switch-3d-drawing.eps

OPEN CONTACTS)	
CLIMATIC PROOFING	Damp heat, cyclic, to IEC 60068-2-30 Damp heat, constant, to IEC 60068-2-78
DEGREE OF PROTECTION	IP65 NEMA Other
RATED IMPULSE WITHSTAND VOLTAGE (UIMP)	4000 V AC
ENVIRONMENTAL CONDITIONS	Compliant to 2014/35/EC, 2014/30/EC and EN 60947-5-1. Accordingly, the user must review it separately for the specific application at hand.
CONNECTION	Inner thread gas cylindrical (BSPP)
MOUNTING POSITION	Vertical and 90° in all directions
RATED CONDITIONAL SHORT-CIRCUIT CURRENT (IQ)	1 kA
CONNECTION TYPE	Flat terminal with clamping washer
OVERVOLTAGE CATEGORY	Ш
LIFESPAN, ELECTRICAL	500,000 Operations
NUMBER OF CONTACTS (NORMALLY CLOSED) AS MAIN CONTACT	3
NUMBER OF MAIN CONTACTS (NORMALLY OPEN CONTACT)	0
OPERATING PRESSURE - MAX	15000 hPa
PRESSURE DIFFERENTIAL	0 bar
RATED FREQUENCY - MAX	50 Hz
RATED INSULATION VOLTAGE (UI)	400 V
RATED OPERATIONAL CURRENT (IE) AT AC-1, 380 V, 400 V, 415 V	0 A
RATED OPERATIONAL CURRENT (IE) AT AC-3, 380 V, 400 V, 415 V	11.5 A
RATED OPERATIONAL POWER AT AC-3, 220/230	4 kW

V, 50 HZ	
RATED OPERATIONAL POWER AT AC-3, 380/400 V, 50 HZ	5.5 kW
RATED OPERATIONAL VOLTAGE (UE) AT AC - MAX	400 V
RATED OPERATIONAL VOLTAGE (UE) AT AC - MIN	0 V
RATED OPERATIONAL VOLTAGE (UE) AT DC - MAX	250 V
RATED OPERATIONAL VOLTAGE (UE) AT DC - MIN	0 V
SWITCH OFF PRESSURE - MAX	11 bar
SWITCH OFF PRESSURE - MIN	0 bar
SWITCHING CAPACITY AT AC-3, 240 V	15 kA
TEST PRESSURE	32 bar
PRODUCT CATEGORY	Pressure switches
NUMBER OF POLES	Three-pole
SCREW SIZE	M4, Terminal screw
RATED OPERATIONAL CURRENT (IE)	15 A at AC-3, 230 V 12.5 A at DC-3, 110 V 11.5 A at AC-3, 400 V 2 A at DC-3, 250 V 16 A at DC-3, 24 V
SHOCK RESISTANCE	10 g, Mechanical, according to IEC/EN 60068-2-27, Half- sinusoidal shock 20 ms
SHORT-CIRCUIT PROTECTION	PKZM0-20, Fuseless
SHORT-CIRCUIT PROTECTION RATING	Max. 20 A gG/gL, Fuse, Contacts
TERMINAL CAPACITY (SOLID)	1 x (0.75 - 2.5) mm ² 2 x (0.75 - 1.5) mm ²
TERMINAL CAPACITY (FLEXIBLE WITH FERRULE)	1 x (0.5 - 1.5) mm ² , ferrules to DIN 46228 2 x (0.5 - 1.5) mm ²
TIGHTENING TORQUE	1.2 Nm, Screw terminals
VIBRATION RESISTANCE	36 Hz, Amplitude 1 mm, (IEC/EN 60068-2-6)

PROJECT NAME:	
PROJECT NUMBER:	
PREPARED BY:	
:	



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