

Specifications



Eaton 029203

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

General specifications

PRODUCT NAME	Eaton Moeller® series MCS Pressure switch
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CATALOG NUMBER	029203
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MODEL CODE	MCSN11
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EAN	4015080292036
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PRODUCT LENGTH/DEPTH	96 mm
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PRODUCT HEIGHT	111 mm
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PRODUCT WIDTH	60 mm
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PRODUCT WEIGHT	0.467 kg
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CERTIFICATIONS	IEC/EN 60947-4-1
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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 60947-4-1. 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"

Ambient conditions, mechanical

MOUNTING POSITION	Vertical and 90° in all directions
SHOCK RESISTANCE	10 g, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 20 ms
VIBRATION RESISTANCE	36 Hz, Amplitude 1 mm, (IEC/EN 60068-2-6)

Contacts

NUMBER OF AUXILIARY CONTACTS (CHANGE-OVER CONTACTS)	0
NUMBER OF AUXILIARY CONTACTS (NORMALLY CLOSED CONTACTS)	0
NUMBER OF AUXILIARY CONTACTS (NORMALLY OPEN CONTACTS)	0

Climatic environmental conditions

AMBIENT OPERATING TEMPERATURE - MAX	70 °C
AMBIENT OPERATING TEMPERATURE - MIN	-25 °C
CLIMATIC PROOFING	Damp heat, cyclic, to IEC 60068-2-30 Damp heat, constant, to IEC 60068-2-78
ENVIRONMENTAL CONDITIONS	Compliant to 2014/35/EC, 2014/30/EC and EN 60947-4-1. Accordingly, the user must review it separately for the specific application at hand.

Electrical rating

RATED FREQUENCY - MAX	50 Hz
RATED INSULATION VOLTAGE (UI)	400 V
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
RATED OPERATIONAL CURRENT (IE) AT AC-3, 380 V, 400 V, 415 V	11.5 A
RATED OPERATIONAL POWER AT AC-3, 220/230 V, 50 HZ	4 kW
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

Features & functions

ELECTRIC CONNECTION TYPE	Screw connection
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FEATURES	Variable switching differential
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NUMBER OF POLES	Three-pole
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General information

BURSTING PRESSURE	90 bar
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CONNECTION	Inner thread gas cylindrical (BSPP)
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CONNECTION TYPE	Flat terminal with clamping washer
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COORDINATION TYPE	1
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DEGREE OF PROTECTION	IP65 NEMA Other
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LIFESPAN, ELECTRICAL	500,000 Operations
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OPERATING FREQUENCY	1500 Operations/h
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OPERATING PRESSURE - MAX	15000 hPa
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OVERVOLTAGE CATEGORY	III
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POLLUTION DEGREE	3
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PRODUCT CATEGORY	Pressure switches
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RATED IMPULSE WITHSTAND VOLTAGE (UIMP)	4000 V AC
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SUITABLE AS	Guard 2-point controller
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TEST PRESSURE	32 bar
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Short-circuit rating

RATED CONDITIONAL SHORT-CIRCUIT CURRENT (IQ)	1 kA
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SHORT-CIRCUIT PROTECTION	PKZM0-20, Fuseless
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SHORT-CIRCUIT PROTECTION RATING	Max. 20 A gG/gL, Fuse, Contacts
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Terminal capacities

SCREW SIZE	M4, Terminal screw
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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
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TERMINAL CAPACITY (SOLID)	1 x (0.75 - 2.5) mm ² 2 x (0.75 - 1.5) mm ²
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TIGHTENING TORQUE	1.2 Nm, Screw terminals
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Resources

CATALOGUES	eaton-product-overview-for-machinery-catalogue-ca08103003zen-en-us.pdf
CHARACTERISTIC CURVE	eaton-pressure-switches-diagram-mcs-pressure-switch-characteristic-curve-005.eps
DECLARATIONS OF CONFORMITY	eaton-pressure-switch-declaration-of-conformity-uk251087en.pdf eaton-pressure-switch-declaration-of-conformity-eu251567en.pdf
DRAWINGS	eaton-pressure-switches-switch-mcs-pressure-switch-dimensions.eps eaton-pressure-switches-switch-mcs-pressure-switch-dimensions-004.eps eaton-pressure-switches-mcs-pressure-switch-dimensions.eps eaton-pressure-switches-switch-mcs-pressure-switch-3d-drawing.eps
INSTALLATION INSTRUCTIONS	IL05212001Z
MCAD MODEL	eaton-pressure-switches-mcad-drawings-mcs-n.dwg mcs_n.stp

PROJECT NAME:

PROJECT NUMBER:

PREPARED BY:

DATE:



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