Specifications



Eaton 019711

Eaton Moeller® series MCS Pressure switch, 1W, 7bar, 0.2bar

General specifications	
PRODUCT NAME	Eaton Moeller® series MCS Pressure switch
CATALOG NUMBER	019711
MODEL CODE	MCS4
EAN	4015080197119
PRODUCT LENGTH/DEPTH	96 mm
PRODUCT HEIGHT	111 mm
PRODUCT WIDTH	60 mm
PRODUCT WEIGHT	0.383 kg
CERTIFICATIONS	IEC/EN 60947-5-1
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 ½”

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)

Climatic environmental conditions

AMBIENT OPERATING TEMPERATURE - MAX	70 °C
AMBIENT OPERATING TEMPERATURE - MIN	-25 °C
CLIMATIC PROOFING	Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30
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.

Contacts

NUMBER OF AUXILIARY CONTACTS (CHANGE-OVER CONTACTS)	1
NUMBER OF AUXILIARY CONTACTS (NORMALLY CLOSED CONTACTS)	0
NUMBER OF AUXILIARY CONTACTS (NORMALLY OPEN CONTACTS)	0

Electrical rating

RATED FREQUENCY - MAX	50 Hz
RATED INSULATION VOLTAGE (UI)	400 V
RATED OPERATIONAL CURRENT (IE)	2 A at DC-13, 24 V 2 A at AC-15, 230 V, 50/60Hz 0.25 A at DC-13, 110 V
RATED OPERATIONAL VOLTAGE (UE) AT AC - MAX	230 V
RATED OPERATIONAL VOLTAGE (UE) AT AC - MIN	0 V
RATED OPERATIONAL VOLTAGE (UE) AT DC - MAX	110 V
RATED OPERATIONAL VOLTAGE (UE) AT DC - MIN	0 V

Features & functions

ELECTRIC CONNECTION TYPE	Screw connection
FEATURES	Variable switching differential

General information

BURSTING PRESSURE	90 bar
CONNECTION	Inner thread gas cylindrical (BSPP)
CONNECTION TYPE	Tunnel terminal
DEGREE OF PROTECTION	IP65 NEMA Other
LIFESPAN, ELECTRICAL	1,000,000 Operations
OPERATING FREQUENCY	1500 Operations/h
OPERATING PRESSURE - MAX	7000 hPa
OVERVOLTAGE CATEGORY	III
POLLUTION DEGREE	3
PRODUCT CATEGORY	Pressure switches
RATED IMPULSE	4000 V AC

WITHSTAND VOLTAGE (UIMP)	
SUITABLE AS	2-point controller Guard
TEST PRESSURE	32 bar

Short-circuit rating

SHORT-CIRCUIT PROTECTION	PKZM0-6,3, Fuseless
SHORT-CIRCUIT PROTECTION RATING	Max. 10 A gG/gL, Fuse, Contacts

Terminal capacities

SCREW SIZE	M3, Terminal screw
TERMINAL CAPACITY (FLEXIBLE WITH FERRULE)	1 x (0.5 - 1.5) mm², ferrules to DIN 46228
TERMINAL CAPACITY (SOLID)	2 x (0.75 - 1.5) mm² 1 x (0.75 - 2.5) mm²
TIGHTENING TORQUE	0.5 Nm, Screw terminals

Resources

CATALOGUES	eaton-product-overview-for-machinery-catalogue-ca08103003zen-en-us.pdf
CHARACTERISTIC CURVE	eaton-pressure-switches-diagram-mcs-pressure-switch-characteristic-curve.eps
DECLARATIONS OF CONFORMITY	eaton-pressure-switch-declaration-of-conformity-eu251557en.pdf eaton-pressure-switch-declaration-of-conformity-uk251028en.pdf
DRAWINGS	eaton-pressure-switches-switch-mcs-pressure-switch-dimensions.eps eaton-pressure-switches-switch-mcs-pressure-switch-dimensions-002.eps eaton-pressure-switches-mcs-pressure-switch-dimensions.eps eaton-pressure-switches-switch-mcs-pressure-switch-dimensions-003.eps
INSTALLATION INSTRUCTIONS	IL05212001Z
MCAD MODEL	mcs_n.stp

PROJECT NAME:	
PROJECT NUMBER:	
PREPARED BY:	
DATE:	

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