

Pressure switch, 3p, 25bar, relief valve



Part no. MCSN16-V
043441
EL Number 4356117
(Norway)

General specifications		
Product name		Eaton Moeller® series MCS Pressure switch
Part no.		MCSN16-V
EAN		4015080434412
Product Length/Depth		96 millimetre
Product height		111 millimetre
Product width		60 millimetre
Product weight		0.584 kilogram
Certifications		CSA CSA Class No.: 3211-06 CSA File No.: 012528 IEC/EN 60947-4-1 CSA-CC22.2 No. 14
Product Tradename		MCS
Product Type		Pressure switch
Product Sub Type		None
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.
Features & Functions		
Electric connection type		Screw connection
Fitted with:		Relief valve
Functions		For 6 mm Ermeto coupling
Number of poles		Three-pole
General information		
Actuator diameter		0 mm
Bursting pressure		90 bar
Connection		Inner thread gas cylindrical (BSPP)
Connection type		Flat terminal with clamping washer
Coordination type		1
Degree of protection		IP65 NEMA Other
Lifespan, electrical		500,000 Operations
Operating frequency		1500 Operations/h
Operating pressure - max		16000 hPa
Overvoltage category		III
Pollution degree		3
Product category		Pressure switches
Rated impulse withstand voltage (Uimp)		4000 V AC
Suitable as		Guard 2-point controller
Test pressure		32 bar
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 - min		-25 °C
Ambient operating temperature - max		70 °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 60947-5-1. Accordingly, the user must review it separately for the specific application at hand.
Terminal capacities		
Terminal capacity (flexible with ferrule)		2 x (0.5 - 1.5) mm ² 1 x (0.5 - 1.5) mm ² , ferrules to DIN 46228
Terminal capacity (solid)		2 x (0.75 - 1.5) mm ² 1 x (0.75 - 2.5) mm ²
Screw size		M4, Terminal screw
Tightening torque		1.2 Nm, Screw terminals
Electrical rating		
Rated frequency - max		50 Hz
Rated insulation voltage (Ui)		400 V
Rated operational current (Ie)		15 A at AC-3, 230 V 11.5 A at AC-3, 400 V 2 A at DC-3, 250 V 12.5 A at DC-3, 110 V 16 A at DC-3, 24 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 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 - min		0 V
Rated operational voltage (Ue) at AC - max		400 V
Rated operational voltage (Ue) at DC - min		0 V
Rated operational voltage (Ue) at DC - max		250 V
Short-circuit rating		
Rated conditional short-circuit current (Iq)		1 kA
Short-circuit protection		PKZM0-20, Fuseless
Short-circuit protection rating		Max. 20 A gG/gL, Fuse, Contacts
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

Technical data ETIM 9.0

Low-voltage industrial components (EG000017) / Pressure switch (EC000243)			
Electric engineering, automation, process control engineering / Low-voltage switch technology / Monitoring equipment (low-voltage switch technology) / Pressure monitoring equipment (ecl@ss13-27-37-18-14 [AKF108019])			
Suitable as guard			Yes
Suitable as 2-point controller			Yes
Suitable as limiter			No
Max. operating pressure		hPa	16000
Engaging pressure		bar	0 - 13.1
Initial setting		hPa	0 - 0
Switch off pressure		bar	0 - 16
End setting		hPa	0 - 0
Pressure-switching differential		bar	0
Max. test pressure		bar	32
Bursting pressure		bar	90
Medium temperature		°C	25 - 80
Connection			Internal thread cylindrical BSPP-G (ISO 228-1)
Thread size			1/2 inch
Rated voltage Ue at AC 50 Hz		V	0 - 400
Rated voltage Ue at AC 60 Hz		V	0 - 400
Rated voltage Ue at DC		V	0 - 250
Initial value measuring range pressure		Pa	0
End value measuring range pressure		Pa	0

Rated operation power at AC-3, 400 V	kW	5.5
Switching capacity at AC-3, 240 V	kA	0
Rated operation current I _e at AC-1, 400 V	A	0
Rated operation current I _e at AC-3, 400 V	A	11.5
Number of auxiliary contacts as normally open contact		0
Number of auxiliary contacts as normally closed contact		0
Number of auxiliary contacts as change-over contact		0
Type of electric connection		Screw connection
Number of normally closed contacts as main contact		3
Number of normally open contacts as main contact		0
Adjustable current range	A	0 - 0
With hand operation		No
With manual on/off switch		No
Electronic version		No
With display		No
Explosion-proof		No
Degree of protection (IP)		IP65
Degree of protection (NEMA)		Other
Height	mm	111
Width	mm	60
Diameter	mm	0
Depth	mm	96