## Pressure switch, 3p, 25bar

Part no. MCSN16 038695

**EL Number** 4356113

(Norway)



(INUI Way)	
General specifications	
Product name	Eaton Moeller® series MCS Pressure switch
Part no.	MCSN16
EAN	4015080386957
Product Length/Depth	96 millimetre
Product height	111 millimetre
Product width	60 millimetre
Product weight	0.467 kilogram
Certifications	CSA CSA Class No.: 3211-06 CSA-CC22.2 No. 14 IEC/EN 60947-4-1 CSA File No.: 012528
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
Features	Variable switching differential
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	-23 ℃ 70 °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.
Terminal capacities	
Terminal capacity (flexible with ferrule)	1 x (0.5 - 1.5) mm <sup>2</sup> , ferrules to DIN 46228 2 x (0.5 - 1.5) mm <sup>2</sup>
Terminal capacity (solid)	1 x (0.75 - 2.5) mm <sup>2</sup> 2 x (0.75 - 1.5) mm <sup>2</sup>
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 (le)	15 A at AC-3, 230 V 16 A at DC-3, 24 V 11.5 A at AC-3, 400 V 12.5 A at DC-3, 110 V 2 A at DC-3, 250 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])

(et)@5515-27-37-10-14 [ANF100013])			
Suitable as guard			Yes
Suitable as 2-point controller			Yes
Suitable as limiter			No
Max. operating pressure	hP	'a	16000
Engaging pressure	bai	r	0 - 13.1
Initial setting	hP	'a	0 - 0
Switch off pressure	bai	r	0 - 16
End setting	hP	'a	0 - 0
Pressure-switching differential	ba	r	0
Max. test pressure	ba	r	32
Bursting pressure	bai	r	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	ı	0
Rated operation power at AC-3, 400 V	kW	V	5.5

Switching capacity at AC-3, 240 VkA0Rated operation current le at AC-1, 400 VA1.5Number of auxiliary contacts as normally open contactA1.5Number of auxiliary contacts as normally closed contactB0Number of auxiliary contacts as normally closed contactB0Number of auxiliary contacts as normally closed contactB0Number of auxiliary contacts as schange-over contactB0Number of normally closed contacts as main contactB0Number of normally open contacts as main contactB0Adjustable current rangeB0With hand operationB0With manual on/off switchB0Betetronic versionBNOBetetronic versionBNOExplosion-proofBNODegree of protection (IP)IPSNODegree of protection (IP)IPSNODegree of protection (NEMA)B11HeightM11With displayB11Betternic versionB00Degree of protection (IP)IPS0Degree of protection (NEMA)B00HeightB00BB00BB00BB00BB00BB00BB00BB00 <tr< th=""><th></th><th></th><th></th><th></th></tr<>				
Rated operation current le at AC-3, 400 V Number of auxiliary contacts as normally open contact Number of auxiliary contacts as normally closed contact Number of auxiliary contacts as change-over contact Number of auxiliary contacts as change-over contact Type of electric connection Number of normally closed contacts as main contact Number of normally open contacts as main contact Number of normally open contacts as main contact Adjustable current range With hand operation With manual on/off switch Electronic version With display Explosion-proof Degree of protection (IP) Degree of protection (NEMA) Height Height Width Midde Diameter  Min Midde Mi	Switching capacity at AC-3, 240 V	kA	4	0
Number of auxiliary contacts as normally closed contact  Number of auxiliary contacts as normally closed contact  Number of auxiliary contacts as change-over contact  Number of auxiliary contacts as main contact  Number of auxiliary contacts as main contact  Number of auxiliary contacts as change-over contact  Number of auxiliary contacts as normally closed contact  Number of auxiliary contacts as nain contact  Number of auxiliary contacts  Number of auxiliary contacts  Number of au	Rated operation current le at AC-1, 400 V	А		0
Number of auxiliary contacts as normally closed contact  Number of auxiliary contacts as change-over contact  Type of electric connection  Number of normally closed contacts as main contact  Number of normally closed contacts as main contact  Adjustable current range  With hand operation  With manual on/off switch  Electronic version  With display  Explosion-proof  Degree of protection (IP)  Degree of protection (NEMA)  Height  With  With  Minumer	Rated operation current le at AC-3, 400 V	А		11.5
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         No           With manual on/off switch         No         No           Electronic version         No         No           With display         No         No           Explosion-proof         No         No           Degree of protection (IP)         IP65           Degree of protection (NEMA)         IMB         Other           Height         IMB         III           Width         IMB         IMB           Diameter         IMB         O	Number of auxiliary contacts as normally open contact			0
Type of electric connection  Number of normally closed contacts as main contact  Number of normally open contacts as main contact  Adjustable current range  With hand operation  With manual on/off switch  Electronic version  With display  Explosion-proof  Explosion-proof  Degree of protection (IP)  Degree of protection (NEMA)  Height  Width  Midth  Midth  Midth  Midth  Midth  Midth  Diameter	Number of auxiliary contacts as normally closed contact			0
Number of normally closed contacts as main contact  Number of normally open contacts as main contact  Adjustable current range  With hand operation  With manual on/off switch  Electronic version  With display  Explosion-proof  Explosion-proof  Degree of protection (IP)  Degree of protection (NEMA)  Height  Width  Width  Mo  Dameter	Number of auxiliary contacts as change-over contact			0
Number of normally open contacts as main contact  Adjustable current range  With hand operation  With manual on/off switch  Electronic version  With display  Explosion-proof  Degree of protection (IP)  Degree of protection (NEMA)  Height  Width  Width  Diameter	Type of electric connection			Screw connection
Adjustable current range With hand operation With manual on/off switch Electronic version With display Explosion-proof Degree of protection (IP) Degree of protection (NEMA) Height Width Width Width Mo Diameter  A 0 - 0  No  No  No  No  No  No  Uther  Hight Mm 111  Other  Hight Midth Mm 60  Diameter	Number of normally closed contacts as main contact			3
With hand operation With manual on/off switch No Electronic version With display With display No Explosion-proof No Degree of protection (IP) Degree of protection (NEMA) Height Width Width Midth Mid	Number of normally open contacts as main contact			0
With manual on/off switch  Electronic version  With display  Explosion-proof  Degree of protection (IP)  Degree of protection (NEMA)  Height  Width  Midth	Adjustable current range	А		0 - 0
Electronic version  With display  Explosion-proof  Explosion-proof  Degree of protection (IP)  Degree of protection (NEMA)  Height  Width  mm  60  Diameter  No  No  P65  Other  111  Other  mm  0	With hand operation			No
With display  Explosion-proof  Degree of protection (IP)  Degree of protection (NEMA)  Height  Width  Width  Diameter  No  No  No  P65  Other  111  No  Other  0  Other  100  Other  111  Other  0  Other  111  Ot	With manual on/off switch			No
Explosion-proof Degree of protection (IP) Degree of protection (NEMA) Height Width Diameter  No	Electronic version			No
Degree of protection (IP)         IP65           Degree of protection (NEMA)         Other           Height         mm         111           Width         mm         60           Diameter         mm         0	With display			No
Degree of protection (NEMA)  Height  Width  Diameter  Other	Explosion-proof			No
Height mm 111 Width mm 60 Diameter mm 0	Degree of protection (IP)			IP65
Width mm 60 Diameter mm 0	Degree of protection (NEMA)			Other
Diameter mm 0	Height	mr	m	111
	Width	mr	m	60
Depth mm 96	Diameter	mr	m	0
	Depth	mr	m	96