

General characteristics of pressure and vacuum switches for single threshold regulation (fixed differential)

XMJ

Environment

Conformity to standards	IEC 337-1, NF C 63-140, VDE 0660 part 2, CSA C 22-2 n° 14
Approvals	Standard version: CSA, ASE, NEMKO, DEMKO, FI, BUREAU VERITAS, USSR Special version for CSA, fitted with 1/2 inch NPT conduit adaptor
Protective treatment	Standard version: "TC" (all climates) Special version: "TH", on request
Ambient temperature	Storage: from -40°C to $+70^{\circ}\text{C}$ Operating: from -25°C to $+70^{\circ}\text{C}$
Fluids or products controlled (at between 0° and $+70^{\circ}\text{C}$)	Hydraulic fluids, air, fresh water or sea water Models for corrosive fluids (on request)
Operating position	All positions
Resistance to vibration	4 g (from 10 Hz to 500 Hz) conforming to IEC 68-2-6
Resistance to shock	100 g conforming to IEC 68-2-27
Electric shock protection	Class I, conforming to IEC 536 and NF C 20-030
Degree of protection	IP 66 conforming to IEC 529 and IP 665 conforming to NF C 20-010
Max. operating frequency	< 30 operations/minute
Mechanical life	2,5 million operations
Repeat accuracy	Variation in the switching point: < 2% (between 2 successive operations)
Fluid connections	1/4 inch BSP female
Cable entries	1 tapped entry for CM 12 (PG 13) cable gland

Contact block characteristics

Rated thermal current	10 A conforming to IEC 337-1, NF C 63-140, VDE 0660 part 2
Rated insulation voltage	500 V $\sim$ 600 V $\sim$ conforming to IEC 158-1, NF C 20-040 and VDE 0110, 300 V conforming to CSA C 22-2 n° 14
Insulation category	Group C conforming to NF C 20-040 and VDE 0110
Contact operation	One 4-terminal, single-pole C/O contact (snap-action)
Resistance between terminals	25 m Ω (conforming to NFC 93-050 method A or IEC 255-7 category 3)
Terminal marking	Conforming to CENELEC EN 50013
Short-circuit protection	10 A g1 or N type cartridge fuse, conforming to IEC 337-1B and VDE 0660 part 2

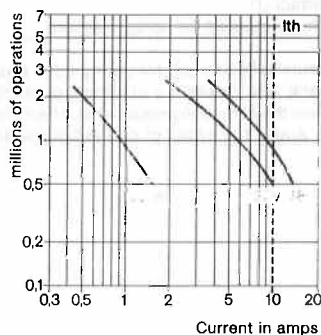
Rated power
conforming to IEC 337-1
Duty categories AC11 and DC11

AC 50-60 Hz

 Inductive load

DC

Power broken in watts
for 1 million operations



Voltage V	24	48	120
	31	29	26

Cabling

By screw and captive cable clamp terminals
Capacity: minimum $1 \times 0.5 \text{ mm}^2$, maximum $1 \times 2.5 \text{ mm}^2$ with or without cable ends



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for single threshold regulation (fixed differential)

Diaphragm pressure switches

Fitted with 1 C/O snap-action contact

Fluid connection:
1/4" BSP, female



XMJ-A0127

Operating range min. max. bar bar		Natural differential (l) at low setting at high setting bar bar		Max. permissible pressure per cycle bar	Occas. surge bar	Reference Without setting scale With setting scale		Weight kg

Hydraulic oils, air, fresh water, sea water, 0 to 70°C.

0.4	3.5	0.28	0.54	5	20	XMJ-A003	XMJ-A0037	0.500
1	12	0.4	1.5	18	30	XMJ-A012	XMJ-A0127	0.500
2	20	1	3.1	25	40	XMJ-A020	XMJ-A0207	0.500

Hot or corrosive fluids, 0 to 160 °C.

0.4	3.5	0.28	0.54	5	20	XMJ-A0035	XMJ-A00375	0.500
1	12	0.4	1.5	18	30	XMJ-A0125	XMJ-A01275	0.500
2	20	1	3.1	25	40	XMJ-A0205	XMJ-A02075	0.500

Piston pressure switches

Fitted with 1 C/O snap-action contact

Fluid connection:
1/4" BSP, female



XMJ-A3007

Operating range min. max. bar bar		Natural differential (l) at low setting at high setting bar bar		Max. permissible pressure per cycle bar	Occas. surge bar	Reference Without setting scale With setting scale		Weight kg

Hydraulic oils, 0 to 70°C.

6.5	30	3.5	6.5	60	100	XMJ-A030	XMJ-A0307	0.500
9.5	70	6.5	15	100	150	XMJ-A070	XMJ-A0707	0.500
15	160	10	25	200	300	XMJ-A160	XMJ-A1607	0.500
30	300	16	45	350	450	XMJ-A300	XMJ-A3007	0.500
50	500	25	60	580	600	XMJ-A500	XMJ-A5007	0.500

Fresh water, sea water, 0 to 70°C.

6.5	30	3.5	6.5	60	100	XMJ-A0304	XMJ-A3074	0.500
9.5	70	6.5	15	100	150	XMJ-A0704	XMJ-A07074	0.500
15	160	10	25	200	300	XMJ-A1604	XMJ-A16074	0.500
30	300	16	45	350	450	XMJ-A3004	XMJ-A30074	0.500
50	500	25	60	580	600	XMJ-A5004	XMJ-A50074	0.500

Air, 0 to 70°C.

6.5	30	3.5	6.5	60	100	XMJ-A0308	XMJ-A03078	0.500
9.5	70	6.5	15	100	150	XMJ-A0708	XMJ-A07078	0.500
15	160	10	25	200	300	XMJ-A1608	XMJ-A16078	0.500
30	300	16	45	350	450	XMJ-A3008	XMJ-A30078	0.500
50	500	25	60	580	600	XMJ-A5008	XMJ-A50078	0.500