

Via castellazzo 9 - 20040 Cambiago (MI)
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www.bremas.eu info@bremas.it

ISO 9001 Certified Quality System

Cod. FMV4R16230

Standard and Approvals

- Switch according to IEC/EN 60947-3
- Certified UL60947-4-1A and CAN/CSA C22.2 No. 60947-4-1-07
- Suitable as Manual Motor Controller



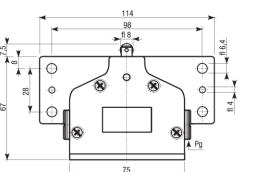


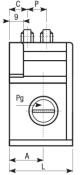
Characteristics

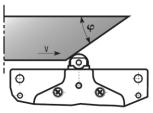
- Metal body and metal head
- IP64 protection degree
- Steel roller plunger actuator
- 1NO+1NC snap action contact block
- Contact block with positive opening
- 2 cable entries
- · Cable entry with Pg thread

Contact block Contact travel 13 21 21-22 13-14 21-22 13-14 21-22 13-14 Contacts closed Contacts opened

Dimension







Drive cam operating parameters

Drive	cam	operating	param	eter	S
m			V/r	may	/r

	0 011 011 11 0 10 1 0
φ	V max (m/s)
30°	1
20°	1,5

Drive forces	
Minimum command force	10 N
Minimum force on lateral travel	18 N

- N° of actuators
 P
 C
 L
 Pg
 A

 4
 16
 30
 94
 13,5
 35
- P = Pitch (distance between two actuators)
- C = Distance between bracket and first actuator
- L = Overall dimensions
- A = Distance between bracket and input/output holes

Limit and Safety SwitchesDatasheet



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Technical data

					TYPE	FMV
Maximum operating frequency			operat./hour 1		erat./hour 1	1800
Insulation resistance				500 V DC	МΩ	100
Dielectric strenght			50	0/60 Hz for 1 '	V AC	2000 ²
Rated insulation voltage		Ui	EC947-5-1		V AC	500
Rated thermal current		the	EC947-5-1		А	10
Rated operating current	Category AC15	le	IEC947-5-1/EN60947-5-1	24V	А	10
	A300			125V	А	10
				230 V	А	6
				400 V	А	4
Contact resistance			EC255-7 cat.3	initial value	mΩ	25
Short circuit protective devices			IEC269 (IEC947-5-1)			
			fuse type gL or gG		Α	10
Pollution degree			EC947-5-1		А	3
Protection degree			EN 60529			I P64
Protection against electric shock				metal	class	I
Vibration resistance			EC68-2-6		mm	0,35 ± 15%
						(10 ÷ 55 Hz ± 1 Hz)
Shock resistance			EC68-2-27	11ms	g	30
Mechanical life					cycles	30,000,000
Electric life			at 250V AC 6A with resistance	ce		
			load cosφ=1		cycles	500,000
			at 250V AC 6A with inductive	250V AC 6A with inductive		
			load coφ=0,4		cycles	500,000
Termina l s			Type			Screw with combined notch
						and retractable plate
						(notch Ph. Size 1)
			Screw			M3,5
			Material			Steel class 8,8 / Galvanized
			Max. screw tightening torque	N	lcm (Kg cm)	120 (12,24)
			Max connecting capacity	rigid cable	mm²	2x1,5
			_	flexible cable	mm²	2x1,5
			with	prod terminal		1x1,5
Terminal numbering						In accordance with EN50013
Air ambient temperature			<u> </u>	operational	°C	-10 ÷ +70
						(without formation of ice)
Relative umidity				operational		95% max

¹ One operation cycle means two movements, one to close and one to open as required by EN 60947-5

² Between terminals with different polarity; between live mechanical parts and ground; between live mechanical parts and non-current-carrying metal parts