

Metal bodied limit switch

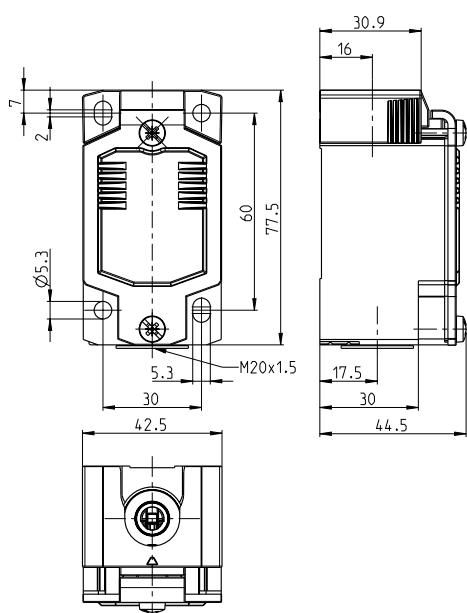
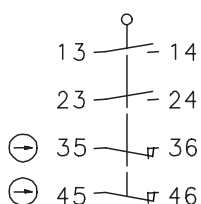
Series MN78

Description **MN78-V22 M20**

Article number **6087000126**

Enclosure with built-in switches without actuating device

Operating symbol



Electrical Data

Rated insulation voltage	U_i	250 V
Rated impulse withstand voltage	U_{imp}	2,5 kV
Rated operational voltage	U_e	240 V AC / 24 V DC
Rated supply frequency AC		50 / 60 Hz
Conv. thermal current	I_{the}	5 A
Minimum current		1 mA
Utilization category		AC 15, U_e/I_e 240 V / 1,5 A; DC 13, U_e/I_e 24 V / 1,5 A
Direct opening action		acc. IEC/EN 60947-5-1, annex K
Short-circuit protective device		Fuse 4 A gG
Rated conditional short-circuit current		400 A
Protection class		I

Mechanical data		
Enclosure		Die-cast aluminium
Cover		Sheet aluminium
Actuating force	F_{bmin} $F_{\ominus}$	16 N + Force of the actuating device 30 N + Force of the actuating device
Operating temperature		-30 °C ... +75 °C
Storage temperature		-40 °C ... +80 °C
Protection type		IP66 / IP67 acc. EN 60529, Type 4X
Pollution degree (built-in switch)		3
Contact material		silver
Contact type		2 N.C. (Form Zb), 2 N.O.
Switching frequency		≤ 60 / min.
Mechanical life		10 x 10 ⁶ operating cycles
Mission time		≤ 20 years
Connection		8 screw connections (M3,5)
Earth bolt		1 x M3,5
Conductor cross-sections		Solid or Litz wire with ferrules 0,34 mm ² - 1,5 mm ² ; AWG 22-16
Cable entrance		1 x M20 x1,5
Weight		≈ 0,19 kg
Installation position		operator definable

ID for safety engineering		
B10d N.C.		20 x 10 ⁶ cycles
B10d N.O.		1 x 10 ⁶ cycles

Standards		
		DIN EN 60947-5-1
		UL 508 / CSA C22.2 No.14
		DIN EN ISO 13849-1
		DIN EN ISO 13849-2

EU Conformity		
		acc. to directive 2014/35/EU (Low-Voltage-Directive)

Approvals		
		CCC
		cULus

Notes		
The degree of protection (IP code) specified applies solely to a property closed cover and the use of an equivalent cable gland with adequate cable.		
The information on the switching travel can be found in the data sheets of the actuator, as these depend on the actuator used.		
Approvals / properties applies only to the fully assembled device.		