

# Metal bodied limit switch

## Series MN78

Description <b>MN78-04 AVK</b>	Article number <b>6087000082</b>
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**Operating symbol**

**Operating diagram**

0 [°]      13-14      23-24      33-34      43-44      [Ncm] 4,5  
 33,5      13,5  
 80      21,5  
 ON      OFF  
 Tolerance:  
 Operating point ± 7°  
 Operating torque ± 25 %

Dimensions:  $\varnothing 25$ , 24.6, 2, 7, 17.6, 16-51.5, 60, 77.5, max. 159.2, 5.3, M20x1.5, 30, 42.5, 60.6, 8, 30.9, 16, 17.5, 30, 44.5.

m/s	0,1	0,5	1	2	5
A	45°	45°	45°	40°	30°
B	45°	45°	45°	40°	30°

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
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
Actuator	Metal lever with plastic roller / lever in 15 ° increments adjustable
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	4 N.O.
Switching frequency	≤ 60 / min.
Mechanical life	10 x 10 <sup>6</sup> 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 <sup>2</sup> - 1,5 mm <sup>2</sup> ; AWG 22-16
Cable entrance	1 x M20 x1,5
Weight	≈ 0,26 kg
Installation position	operator definable

Actuation
The actuating device is preferably started from 2 sides. The actuation assembly can be rotated in 45° increments such that 16 actuation directions are possible.

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

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.