

Metal bodied limit switch

Series MN78

Description MN78-S11 AVK	Article number 6087000073
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Operating symbol

Operating diagram

[°] [Ncm]
 0 4,5
 22,5 12,5
 41 13,5
 80 17,5

ON OFF
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Tolerance:
 Operating point ± 4,5 °
 Operating torque ± 20 %

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	400 V
Rated impulse withstand voltage	U_{imp}	4 kV
Rated operational voltage	U_e	240 V AC / 24 V DC
Rated supply frequency AC		50 / 60 Hz
Overvoltage category		II acc. EN 60947-1 annex H table H1
Conv. thermal current	I_{the}	5 A
Minimum current		1 mA
Utilization category		AC 15, U_e/I_e 240 V / 3 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
Device Class (built-in switch)	Category E (MC3+CC2+SC1) acc. EN 60947-1 annex Q
Contact type	1 N.C., 1 N.O.
Bounce duration	ms < 3 ms
Switchover time	ms < 8 ms
Switching frequency	≤ 60 / min.
Mechanical life	15 x 10 ⁶ operating cycles
Mission time	≤20 years
Connection	4 screw connections (M3)
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	≈ 0,25 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
cUL _{US}

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.