

Metal bodied limit switch

Series MN78

Description MN78-22 AVK	Article number 6087000080
--------------------------------	----------------------------------

Operating symbol

13 — 14
 23 — 24
 31 — 32
 41 — 42

Operating diagram

[°]	13-14	23-24	31-32	41-42	[Ncm]
0					4,5
18,5			■		11,5
33,5	■				13,5
80	■				20,5

■ ON □ OFF

Tolerance:
 Operating point ± 7 °
 Operating torque ± 25 %

Dimensions: Ø25, 24.6, 7, 2, 16-51.5, (17.6), max. 159.2, 60.6, 8, 30.9, 16, 60, 77.5, 17.5, 30, 44.5, 5.3, M20x1.5, 42.5, Ø5.3

	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	2 N.C., 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	≈ 0,26 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 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.