



TKF/S/9024VDC

- Metal enclosure
- High holding force

Data

Ordering data

Product type description	TKF/S/9024VDC
Article number (order number)	101010240
EAN (European Article Number)	4030661521022
eCl@ss number, version 12.0	27-27-26-03
eCl@ss number, version 11.0	27-27-26-03
eCl@ss number, version 9.0	27-27-26-03
ETIM number, version 7.0	EC002593
ETIM number, version 6.0	EC002593

Approvals - Standards

Certificates	cULus CCC
--------------	--------------

General data

Standards	EN ISO 13849-1 EN ISO 14119 EN IEC 60947-5-1
Coding level according to EN ISO 14119	Low
Working principle	electromechanical
Housing material	Aluminium

Gross weight	1,465 g
--------------	---------

General data - Features

Number of actuating directions	3
Number of auxiliary contacts	2
Number of safety contacts	2

Safety classification

Standards	EN ISO 13849-1
Mission time	20 Year(s)

Safety classification - Safety outputs

B _{10D} Normally-closed contact (NC)	2,000,000 Operations
B _{10D} Normally open contact (NO)	1,000,000 Operations

Mechanical data

Mechanical life, minimum	2,000,000 Operations
Holding force F_{Zh} in accordance with EN ISO 14119	3,000 N
Holding force F_{max} , maximum	4,000 N
Latching force	20 N
Positive break force, minimum	20 N
Actuating speed, maximum	0.3 m/s

Mechanical data - Connection technique

Termination	Screw terminals
Cable section, minimum	0.25 mm ²
Cable section, maximum	2.5 mm ²
Note	All indications including the conductor ferrules.

Mechanical data - Dimensions

Length of sensor	50 mm
Width of sensor	87 mm
Height of sensor	192 mm

Ambient conditions

Degree of protection	IP67
Ambient temperature	+0 ... +50 °C
Note (Relative humidity)	non-condensing non-icing
Permissible installation altitude above sea level, maximum	2,000 m

Ambient conditions - Insulation values

Rated insulation voltage U_i	400 V
Rated impulse withstand voltage U_{imp}	2.5 kV

Electrical data

Thermal test current	10 A
Rated control voltage	24 VAC/DC
Electrical power consumption, maximum	10 W
Switching principle	slow action, positive break NC contact
Maximum switching frequency	1,000 /h
Material of the contacts, electrical	Silver

Electrical data - Magnet control

Magnet switch-on time	100 %
Test pulse duration, maximum	5 ms
Test pulse interval, minimum	50 ms

Electrical data - Safety contacts

Voltage, Utilisation category AC-15	230 VAC
Current, Utilisation category AC-15	8 A
Voltage, Utilisation category DC-13	24 VDC
Current, Utilisation category DC-13	5 A

Electrical data - Auxiliary contacts

Voltage, Utilisation category AC-15	230 VAC
Current, Utilisation category AC-15	8 A
Voltage, Utilisation category DC-13	24 VDC
Current, Utilisation category DC-13	5 A

Scope of delivery

Scope of delivery	Actuator must be ordered separately.
-------------------	--------------------------------------

Pictures

Product picture (catalogue individual photo)



ID: ktkf-f01
| 281.6 kB | .jpg | 352.778 x 234.95 mm - 1000 x 666 px - 72 dpi
| 26.6 kB | .png | 74.083 x 49.389 mm - 210 x 140 px - 72 dpi
| 46.3 kB | .jpg | 123.472 x 82.197 mm - 350 x 233 px - 72 dpi

K.A. Schmersal GmbH & Co. KG, Möddinghofe 30, 42279 Wuppertal
The details and data referred to have been carefully checked. Images may diverge from original. Further technical data can be found in the manual. Technical amendments and errors possible.
Generated on: 02/08/2024, 02:49