



TKF/S/90230VAC

- Metal enclosure
- High holding force

Data

Ordering data

Product type description	TKF/S/90230VAC
Article number (order number)	101010257
EAN (European Article Number)	4030661612409
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
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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	1,459 g
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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 mm²
Cable section, maximum	2.5 mm²
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	230 VAC
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.
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Pictures

Product picture (catalogue individual photo)



ID: ktkf-f03
| 278.2 kB | .jpg | 352.778 x 234.95 mm - 1000 x 666 px - 72 dpi
| 26.2 kB | .png | 74.083 x 49.389 mm - 210 x 140 px - 72 dpi
| 45.9 kB | .jpg | 123.472 x 82.197 mm - 350 x 233 px - 72 dpi

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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.
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