

## Datasheet - EF220.1



Command and signalling devices / Contact and light terminal blocks (EF/EL) System / contact elements / contact element EF - (N)

- Screw connection
- Mounting flange position 1
- 11-12; 21-22 (Contact labelling)
- Suitable for EMERGENCY-OFF



(Minor differences between the printed image and the original product may exist!)

### Ordering details

Product type description	EF220.1
Article number	101023927
EAN code	4250116201365
eCl@ss	27-37-13-02

### Approval

Approval



### Global Properties

Product name	Kontaktelement EF
Standards	IEC/EN 60947-1, EN 60947-5-1
Compliance with the Directives (Y/N)	Yes
Contact labelling	11-12; 21-22
Materials	
- Material of the housings	Plastic, glass-fibre reinforced thermoplastic, self-extinguishing
- Material of the contacts	Silver
Weight	32 g
Suitable for EMERGENCY-OFF (Y/N)	Yes

## Mechanical data

---

Connection type	Screw connection
notice	All indications about the cable section are including the conductor ferrules.
Cable section	
- Min. Cable section	0,5 mm <sup>2</sup> , rigid 0,5 mm <sup>2</sup> , flexible
- Max. Cable section	2.5 mm <sup>2</sup> , rigid 1.5 mm <sup>2</sup> , flexible
Assembly	pluggable
Mounting flange position	1
Mechanical life / contact element	10.000.000 operations
Switching frequency	1200 /h
restistance to shock	110 g / 4 ms
resistant to vibration	> 20 g / 10 ... 200 Hz
Bounce duration (100 mm/s)	< 5 ms
positive break travel	2 mm
Contact opening	2 mm

## Ambient conditions

---

Ambient temperature	
- Min. environmental temperature	-25 °C
- Max. environmental temperature	+80 °C
Protection class	
- Protection class-Terminals	IP20
- Protection class switching compartments	IP40

## Electrical data

---

Design of control element	Opener (NC)
Switching principle	Slow action
Number of shutters	0 piece
Number of openers	2 piece
Rated insulation voltage U <sub>i</sub>	400 V
Thermal test current I <sub>the</sub>	10 A
Utilisation category	AC-15: 230 V / 8 A DC-13: 24 V / 5 A
Max. fuse rating	10 A gG D-fuse slow blow
Test voltage (enclosed)	2500 VAC
Suitable for low-voltages	≥ 5 V, 3.2 mA

## Dimensions

---






Dimensions	
- Width	10 mm
- Length	46 mm
- Depth	60 mm

## Switch travel diagram

---



Notes Switch travel diagram

-  Contact closed
-  Contact open
-  Setting range
-  Break point
-  Positive opening sequence/- angle
- VS** adjustable range of NO contact
- VÖ** adjustable range of NC contact
- N** after travel

## Documents

---

**CCC certification** (en) 975 kB, 24.05.2016

Code: q\_efelp02

**CCC certification** (cn) 949 kB, 24.05.2016

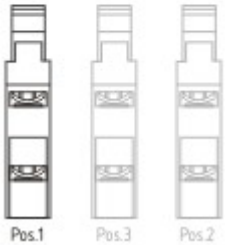
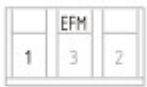
Code: q\_efelp03

**EAC certification** (ru) 779 kB, 05.10.2015

Code: q\_6043p17\_ru

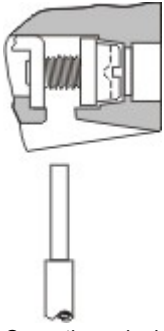
## Images

---



Application

---



Operating principle

---

K.A. Schmersal GmbH & Co. KG, Mödinghofe 30, D-42279 Wuppertal  
The data and values have been checked thoroughly. Technical modifications and errors excepted.  
Generiert am 23.05.2017 - 09:34:06h Kasbase 3.2.6.F.64I