



**Contact element normally closed, flat, front mounted, cage clamp**

**Part no.** M22-FK01  
**Catalog No.** 180791  
**Alternate Catalog No.** M22-FK01  
**EL-Nummer (Norway)** 4315742

## Delivery program




Basic function accessories		Contact elements
Description		Cage Clamp is a registered trademark of Wago Kontakttechnik GmbH/Minden, Germany
Connection technique		Cage Clamp
Fixing		Front fixing
Degree of Protection		IP20
Connection to SmartWire-DT		no
Approval		
<b>Contacts</b>		
N/C = Normally closed		1 NC 
Notes		 = safety function, by positive opening to IEC/EN 60947-5-1
<b>Actuator travel and actuation force as per DIN EN 60947-5-1, K.5.4.1</b>		
	mm	5.5
Maximum travel	mm	5.8
Minimum force for positive opening	N	20

Diagram illustrating a contact sequence. A vertical line is shown, with a horizontal segment at the top labeled '1' and a horizontal segment at the bottom labeled '2'. The vertical line is labeled 'L'.

Contact travel diagram, stroke in connection with front element			
---	--	--	--

**Contact diagram**

The diagram shows a horizontal bar representing a contact strip. The total length is 5.5 mm, labeled as ZW = 5.5 mm. A portion of the bar, 3.3 mm long, is shaded black, representing the contact area. The remaining 2.2 mm is white. The label M22-FK01 is positioned to the left of the bar. Above the bar, the dimensions 0, 3.3, and 5.8 mm are marked with vertical lines.

Connection technique			Cage Clamp
----------------------	--	--	------------

## Technical data

## General

Standards		IEC 60947-5-1
Lifespan, mechanical	Operations	$\times 10^6$ > 1
Operating frequency	Operations/h	$\leq 3600$
Actuating force	n	$\leq 4.5$
Degree of Protection		IP20
Climatic proofing		Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30 Dry heat to IEC 60068-2-2
Ambient temperature		
Open	°C	-25 - +70
Storage	°C	- 40 - + 85
Mechanical shock resistance to IEC 60068-2-27 Shock duration 11 ms, half-sinusoidal	g	> 50
Terminal capacities	mm <sup>2</sup>	
Solid	mm <sup>2</sup>	2 x 1 (0.2 - 1.5) 2 x 1 (075 - 1.5) Can be plugged without tools
Flexible with ferrule	mm <sup>2</sup>	2 x 1 (0.25 - 1) Use WAGO Variocrimp 4 crimping tool; please enquire for others
Flexible without ferrule	mm <sup>2</sup>	2 x 1 (0.25 - 1) Insert with tool
Solid or stranded	AWG	2 x 1 (24 - 16)

## Contacts

Rated impulse withstand voltage	U <sub>imp</sub>	V AC	4000
Rated insulation voltage	U <sub>i</sub>	V	250
Overvoltage category/pollution degree			III/3
Max. short-circuit protective device			
Fuseless		Type	FAZ-B4
Fuse	gG/gL	A	4

**Switching capacity**

Rated operational current	$I_e$	A
---------------------------	-------	---

AC-15			
24 V	I <sub>e</sub>	A	4
60 V	I <sub>e</sub>	A	4
110 V	I <sub>e</sub>	A	2
230 V	I <sub>e</sub>	A	1.5
DC-13			
24 V	I <sub>e</sub>	A	1.5
60 V	I <sub>e</sub>	A	0.8
110 V	I <sub>e</sub>	A	0.4
220 V	I <sub>e</sub>	A	0.2

#### Auxiliary contacts

Rated conditional short-circuit current	I <sub>q</sub>	kA	1
---	----------------	----	---

### Design verification as per IEC/EN 61439

Technical data for design verification			
Operating ambient temperature min.		°C	-25
Operating ambient temperature max.		°C	70

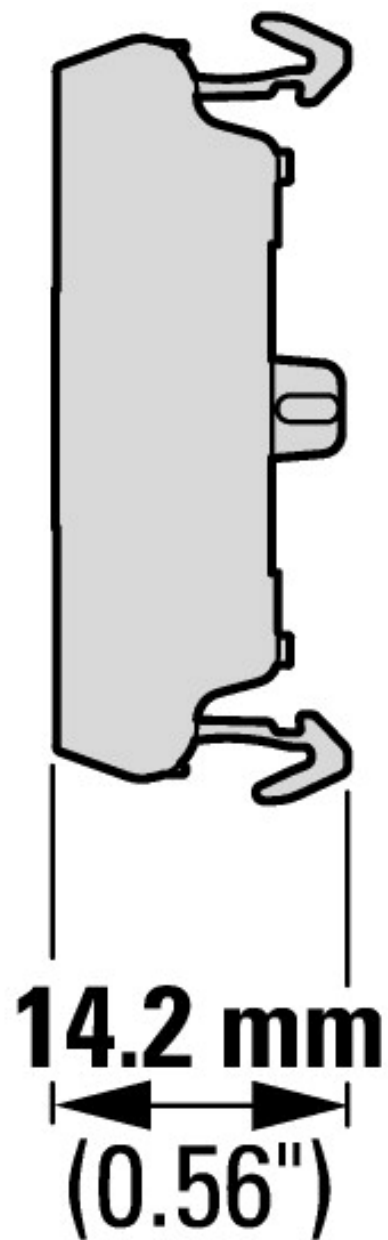
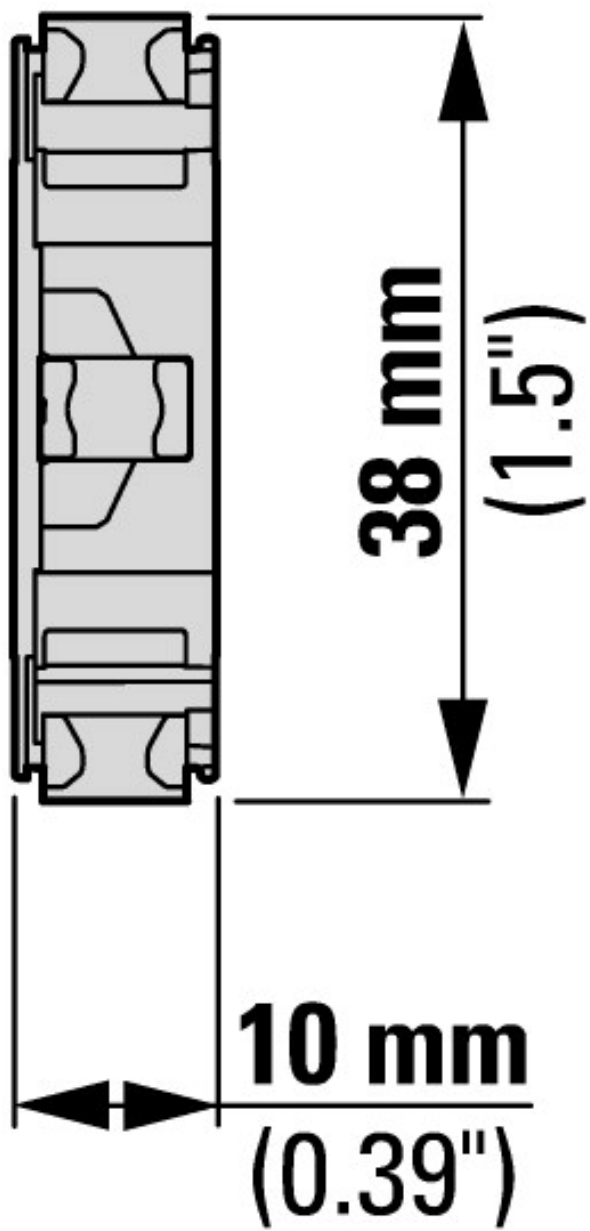
### Technical data ETIM 7.0

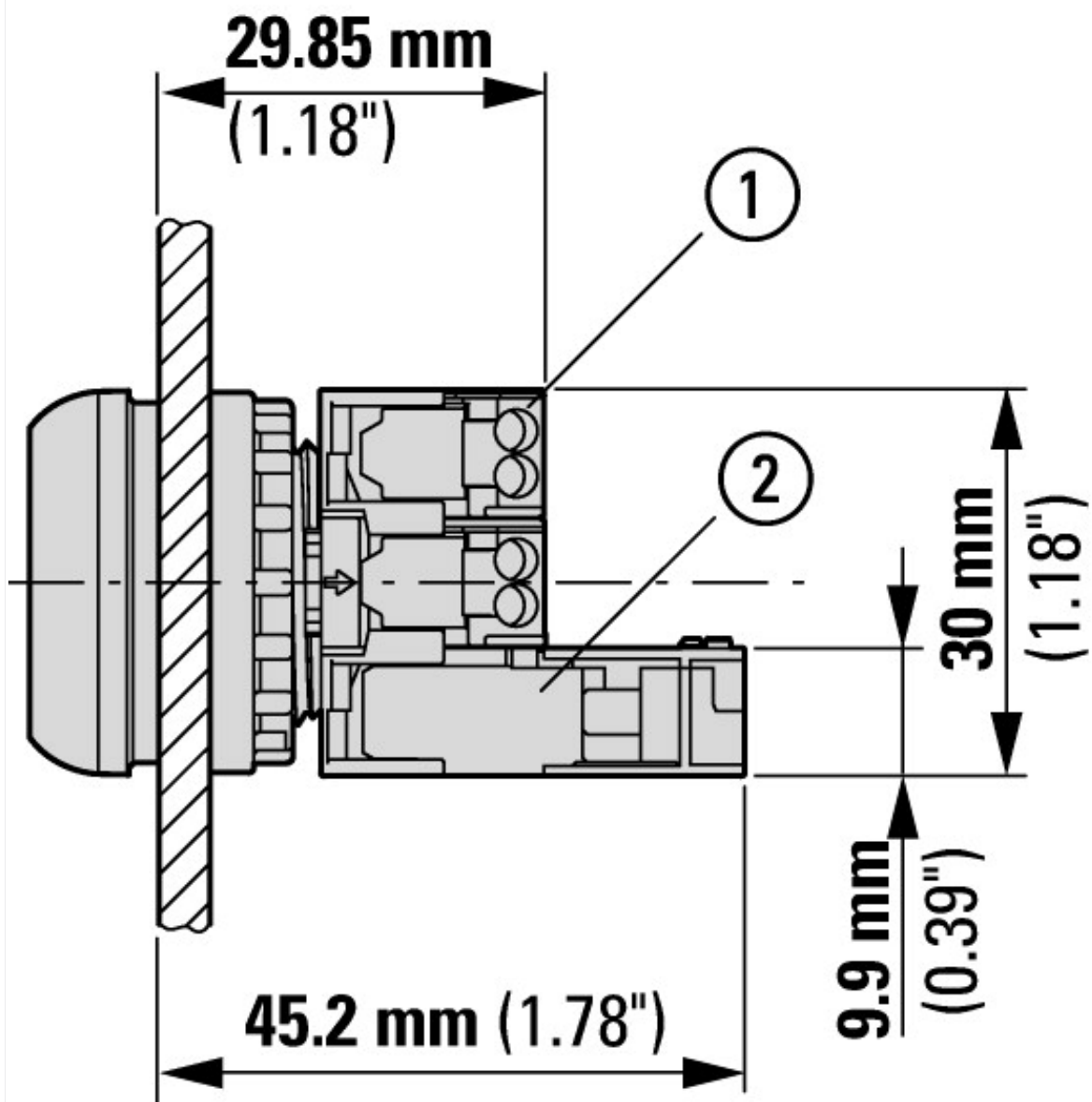
Low-voltage industrial components (EG000017) / Auxiliary contact block (EC000041)			
Electric engineering, automation, process control engineering / Low-voltage switch technology / Component for low-voltage switching technology / Auxiliary switch block (ecI@ss10.0.1-27-37-13-02 [AKN342013])			
Number of contacts as change-over contact			0
Number of contacts as normally open contact			0
Number of contacts as normally closed contact			1
Number of fault-signal switches			0
Rated operation current I <sub>e</sub> at AC-15, 230 V		A	1.5
Type of electric connection			Spring clamp connection
Model			Top mounting
Mounting method			Front fastening
Lamp holder			None

### Approvals

Product Standards			IEC/EN 60947-5; UL 508; CSA-C22.2 No. 14-05; CSA-C22.2 No. 94-91; CE marking
UL File No.			E29184
UL Category Control No.			NKCR
CSA File No.			012528
CSA Class No.			3211-03
North America Certification			UL listed, CSA certified
Degree of Protection			UL/CSA Type: -

## Dimensions





- ① M22-FK10(01)
- ② M22-(C)K...

## Assets (links)

[Declaration of CE Conformity](#)

00003204