



**Contact element, Cage Clamp, Front fixing, 1 NC, 24 V 3 A, 220 V 230 V 240 V 6 A**

**Typ** M22-CK01  
**Catalog No.** 216385  
**Alternate Catalog No.** M22-CK01Q

## Delivery program

|                                                                             |    |                                                                                                                                                |
|-----------------------------------------------------------------------------|----|------------------------------------------------------------------------------------------------------------------------------------------------|
| Product range                                                               |    | Accessories                                                                                                                                    |
| Basic function accessories                                                  |    | Contact elements                                                                                                                               |
| Accessories                                                                 |    | Auxiliary contact                                                                                                                              |
| Accessories                                                                 |    | Standard auxiliary contact, trip-indicating auxiliary switch                                                                                   |
| Standard/Approval                                                           |    | UL/CSA, IEC                                                                                                                                    |
| Construction size                                                           |    | NZM1/2/3/4                                                                                                                                     |
| 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                                                                                                                                             |
| For use with                                                                |    | NZM1(-4), 2(-4), 3(-4), 4(-4)<br>PN1(-4), 2(-4), 3(-4)<br>N(S)1(-4), 2(-4), 3(-4), 4(-4)                                                       |
| 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 | 4.8                                                                                                                                            |
| Maximum travel                                                              | mm | 5.7                                                                                                                                            |
| Minimum force for positive opening                                          | N  | 15                                                                                                                                             |

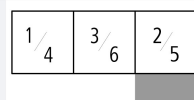


### Contact travel diagram, stroke in connection with front element

### Contact diagram



## Configuration



Connection type

Single contact

Description of HIA trip-indicating auxiliary contact

General trip indication '+', when tripped by shunt release, overload release, short-circuit release or by the residual-current release due to residual-current.

Can be used with NZM1, 2, 3 circuit-breaker: a trip-indicating auxiliary contact can be clipped into the circuit-breaker.

Can be used with NZM4 circuit-breaker: up to two standard auxiliary contacts can be clipped into the circuit-breaker.

Any combinations of the auxiliary contact types are possible.

Not in combination with switch-disconnector PN...

Marking on switch: HIA

Labeling in FI-Block: HIAFI.

If the trip-indicating auxiliary switch in the fault current block is used, the NC contacts operates as a N/O contact and the NC contact operates as an N/O contact.

Description standard auxiliary contact HIN

Switching with the main contacts Used for indicating and interlocking tasks.  
Can be used with NZM1 circuit-breaker: a standard auxiliary contact can be clipped into the circuit-breaker.  
Can be used with NZM2 size circuit-breaker: a standard auxiliary contact can be clipped into the circuit-breaker.  
Can be used with NZM3, 4 circuit-breaker: up to three standard auxiliary contacts can be clipped into the circuit-breaker.  
Any combinations of the auxiliary contact types are possible.  
Marking on switch: HIN.  
On combination with remote operator NZM-XR... the right mounting location of standard auxiliary contact HIN can be fitted only with individual contacts.

### Connection technique

### Cage Clamp

## Notes

The following can be clipped into the switches:

- NZM1: a standard auxiliary contact
- NZM2: up to two M22-(C)K... standard auxiliary contacts
- NZM3: up to three M22-(C)K... standard auxiliary contacts
- NZM4: up to three M22-(C)K... standard auxiliary contacts

Any combinations of the auxiliary contact types are possible.

Marking on switch: HIN

In combination with remote operator NZM-XR... only single contacts can be fitted to some installation locations of the standard auxiliary contact.

**NZM2:** Only single contact can be fitted in left installation location of standard auxiliary contact.

**NZM3:** Only single contact can be fitted in installation locations of standard auxiliary contact.

NZM4: Only single contact can be fitted in right installation location of standard auxiliary contact.

## Technical data

### General

|                                                                                     |              |                 |                                                                                |
|-------------------------------------------------------------------------------------|--------------|-----------------|--------------------------------------------------------------------------------|
| Standards                                                                           |              |                 | IEC 60947-5-1                                                                  |
| Lifespan, mechanical                                                                | Operations   | $\times 10^6$   | > 5                                                                            |
| Operating frequency                                                                 | Operations/h |                 | $\leq 3600$                                                                    |
| Actuating force                                                                     |              | n               | $\leq 5$                                                                       |
| Degree of Protection                                                                |              |                 | IP20                                                                           |
| Climatic proofing                                                                   |              |                 | Damp heat, constant, to IEC 60068-2-78<br>Damp heat, cyclic, to IEC 60068-2-30 |
| Ambient temperature                                                                 |              |                 |                                                                                |
| Open                                                                                |              | °C              | -25 - +70                                                                      |
| Mechanical shock resistance to IEC 60068-2-27 Shock duration 11 ms, half-sinusoidal |              | g               | > 30                                                                           |
| Terminal capacities                                                                 |              | mm <sup>2</sup> |                                                                                |
| Solid                                                                               |              | mm <sup>2</sup> | 0.75 - 2.5                                                                     |
| Stranded                                                                            |              | mm <sup>2</sup> | 0.5 - 2.5                                                                      |
| Flexible with ferrule                                                               |              | mm <sup>2</sup> | 0.5 - 1.5                                                                      |

### Contacts

|                                       |                  |                   |                                                                           |
|---------------------------------------|------------------|-------------------|---------------------------------------------------------------------------|
| Rated impulse withstand voltage       | U <sub>imp</sub> | V AC              | 6000                                                                      |
| Rated insulation voltage              | U <sub>i</sub>   | V                 | 500                                                                       |
| Overvoltage category/pollution degree |                  |                   | III/3                                                                     |
| Control circuit reliability           |                  |                   |                                                                           |
| at 24 V DC/5 mA                       | H <sub>F</sub>   | Fault probability | < 10 <sup>-7</sup> (i.e. 1 failure to 10 <sup>7</sup> operations)         |
| at 5 V DC/1 mA                        | H <sub>F</sub>   | Fault probability | < 5 x 10 <sup>-6</sup> (i.e. 1 failure in 5 x 10 <sup>6</sup> operations) |
| Max. short-circuit protective device  |                  |                   |                                                                           |
| Fuseless                              |                  | Type              | PKZM0-10/FAZ-B6/1                                                         |
| Fuse                                  | gG/gL            | A                 | 10                                                                        |

### Switching capacity

|                           |                |               |     |
|---------------------------|----------------|---------------|-----|
| Rated operational current | I <sub>e</sub> | A             |     |
| AC-15                     |                |               |     |
| 115 V                     | I <sub>e</sub> | A             | 6   |
| 220 V 230 V 240 V         | I <sub>e</sub> | A             | 6   |
| 380 V 400 V 415 V         | I <sub>e</sub> | A             | 4   |
| 500 V                     | I <sub>e</sub> | A             | 2   |
| DC-13                     |                |               |     |
| 24 V                      | I <sub>e</sub> | A             | 3   |
| 42 V                      | I <sub>e</sub> | A             | 1.7 |
| 60 V                      | I <sub>e</sub> | A             | 1.2 |
| 110 V                     | I <sub>e</sub> | A             | 0.8 |
| 220 V                     | I <sub>e</sub> | A             | 0.3 |
| Lifespan, electrical      |                |               |     |
| AC-15                     |                |               |     |
| 230 V/0.5 A               | Operations     | $\times 10^6$ | 1.6 |
| 230 V/1.0 A               | Operations     | $\times 10^6$ | 1   |
| 230 V/3.0 A               | Operations     | $\times 10^6$ | 0.7 |
| DV-13                     |                |               |     |
| 12 V/2.8 A                | Operations     | $\times 10^6$ | 1.2 |

### Auxiliary contacts

|                                 |                |      |     |
|---------------------------------|----------------|------|-----|
| Rated operational voltage       | U <sub>e</sub> | V    |     |
| Rated operational voltage       | U <sub>e</sub> | V AC | 500 |
| Rated operational voltage, max. | U <sub>e</sub> | V DC | 220 |

|                                                                                                    |                |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |       |       |   |   |   |   |       |  |  |  |  |  |       |       |   |   |   |   |       |       |   |   |   |   |       |       |   |   |   |   |       |       |   |   |   |   |      |  |  |  |  |  |      |       |   |     |   |     |      |       |   |     |     |     |       |       |   |     |     |     |       |       |   |     |     |     |
|----------------------------------------------------------------------------------------------------|----------------|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|---|---|---|---|-------|--|--|--|--|--|-------|-------|---|---|---|---|-------|-------|---|---|---|---|-------|-------|---|---|---|---|-------|-------|---|---|---|---|------|--|--|--|--|--|------|-------|---|-----|---|-----|------|-------|---|-----|-----|-----|-------|-------|---|-----|-----|-----|-------|-------|---|-----|-----|-----|
| Conventional thermal current                                                                       | $I_{th} = I_e$ | CSA             | 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |       |       |   |   |   |   |       |  |  |  |  |  |       |       |   |   |   |   |       |       |   |   |   |   |       |       |   |   |   |   |       |       |   |   |   |   |      |  |  |  |  |  |      |       |   |     |   |     |      |       |   |     |     |     |       |       |   |     |     |     |       |       |   |     |     |     |
| Rated operational current                                                                          | $I_e$          | A               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |       |       |   |   |   |   |       |  |  |  |  |  |       |       |   |   |   |   |       |       |   |   |   |   |       |       |   |   |   |   |       |       |   |   |   |   |      |  |  |  |  |  |      |       |   |     |   |     |      |       |   |     |     |     |       |       |   |     |     |     |       |       |   |     |     |     |
| <b>Different rated operational currents</b> when used as auxiliary contact for NZM circuit-breaker |                |                 | <div><div>bei<br/>AC =<br/>50/60<br/>Hz</div><div>Bemessungsbetriebsstrom</div><table><tr><td>AC-15</td><td><math>I_e</math></td><td>A</td><td>4</td><td>4</td><td>4</td></tr><tr><td>115 V</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>230 V</td><td><math>I_e</math></td><td>A</td><td>4</td><td>4</td><td>4</td></tr><tr><td>400 V</td><td><math>I_e</math></td><td>A</td><td>2</td><td>-</td><td>2</td></tr><tr><td>500 V</td><td><math>I_e</math></td><td>A</td><td>1</td><td>-</td><td>1</td></tr><tr><td>DC-13</td><td><math>I_e</math></td><td>A</td><td>3</td><td>3</td><td>3</td></tr><tr><td>14 V</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>42 V</td><td><math>I_e</math></td><td>A</td><td>1.7</td><td>1</td><td>1.5</td></tr><tr><td>60 V</td><td><math>I_e</math></td><td>A</td><td>1.2</td><td>0.8</td><td>0.8</td></tr><tr><td>110 V</td><td><math>I_e</math></td><td>A</td><td>0.6</td><td>0.5</td><td>0.5</td></tr><tr><td>220 V</td><td><math>I_e</math></td><td>A</td><td>0.3</td><td>0.2</td><td>0.2</td></tr></table></div> <div>M22-(C)K10(01)M22-CK11(02)XHIV(20)</div> | AC-15 | $I_e$ | A | 4 | 4 | 4 | 115 V |  |  |  |  |  | 230 V | $I_e$ | A | 4 | 4 | 4 | 400 V | $I_e$ | A | 2 | - | 2 | 500 V | $I_e$ | A | 1 | - | 1 | DC-13 | $I_e$ | A | 3 | 3 | 3 | 14 V |  |  |  |  |  | 42 V | $I_e$ | A | 1.7 | 1 | 1.5 | 60 V | $I_e$ | A | 1.2 | 0.8 | 0.8 | 110 V | $I_e$ | A | 0.6 | 0.5 | 0.5 | 220 V | $I_e$ | A | 0.3 | 0.2 | 0.2 |
| AC-15                                                                                              | $I_e$          | A               | 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 4     | 4     |   |   |   |   |       |  |  |  |  |  |       |       |   |   |   |   |       |       |   |   |   |   |       |       |   |   |   |   |       |       |   |   |   |   |      |  |  |  |  |  |      |       |   |     |   |     |      |       |   |     |     |     |       |       |   |     |     |     |       |       |   |     |     |     |
| 115 V                                                                                              |                |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |       |       |   |   |   |   |       |  |  |  |  |  |       |       |   |   |   |   |       |       |   |   |   |   |       |       |   |   |   |   |       |       |   |   |   |   |      |  |  |  |  |  |      |       |   |     |   |     |      |       |   |     |     |     |       |       |   |     |     |     |       |       |   |     |     |     |
| 230 V                                                                                              | $I_e$          | A               | 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 4     | 4     |   |   |   |   |       |  |  |  |  |  |       |       |   |   |   |   |       |       |   |   |   |   |       |       |   |   |   |   |       |       |   |   |   |   |      |  |  |  |  |  |      |       |   |     |   |     |      |       |   |     |     |     |       |       |   |     |     |     |       |       |   |     |     |     |
| 400 V                                                                                              | $I_e$          | A               | 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | -     | 2     |   |   |   |   |       |  |  |  |  |  |       |       |   |   |   |   |       |       |   |   |   |   |       |       |   |   |   |   |       |       |   |   |   |   |      |  |  |  |  |  |      |       |   |     |   |     |      |       |   |     |     |     |       |       |   |     |     |     |       |       |   |     |     |     |
| 500 V                                                                                              | $I_e$          | A               | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | -     | 1     |   |   |   |   |       |  |  |  |  |  |       |       |   |   |   |   |       |       |   |   |   |   |       |       |   |   |   |   |       |       |   |   |   |   |      |  |  |  |  |  |      |       |   |     |   |     |      |       |   |     |     |     |       |       |   |     |     |     |       |       |   |     |     |     |
| DC-13                                                                                              | $I_e$          | A               | 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 3     | 3     |   |   |   |   |       |  |  |  |  |  |       |       |   |   |   |   |       |       |   |   |   |   |       |       |   |   |   |   |       |       |   |   |   |   |      |  |  |  |  |  |      |       |   |     |   |     |      |       |   |     |     |     |       |       |   |     |     |     |       |       |   |     |     |     |
| 14 V                                                                                               |                |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |       |       |   |   |   |   |       |  |  |  |  |  |       |       |   |   |   |   |       |       |   |   |   |   |       |       |   |   |   |   |       |       |   |   |   |   |      |  |  |  |  |  |      |       |   |     |   |     |      |       |   |     |     |     |       |       |   |     |     |     |       |       |   |     |     |     |
| 42 V                                                                                               | $I_e$          | A               | 1.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 1     | 1.5   |   |   |   |   |       |  |  |  |  |  |       |       |   |   |   |   |       |       |   |   |   |   |       |       |   |   |   |   |       |       |   |   |   |   |      |  |  |  |  |  |      |       |   |     |   |     |      |       |   |     |     |     |       |       |   |     |     |     |       |       |   |     |     |     |
| 60 V                                                                                               | $I_e$          | A               | 1.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 0.8   | 0.8   |   |   |   |   |       |  |  |  |  |  |       |       |   |   |   |   |       |       |   |   |   |   |       |       |   |   |   |   |       |       |   |   |   |   |      |  |  |  |  |  |      |       |   |     |   |     |      |       |   |     |     |     |       |       |   |     |     |     |       |       |   |     |     |     |
| 110 V                                                                                              | $I_e$          | A               | 0.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 0.5   | 0.5   |   |   |   |   |       |  |  |  |  |  |       |       |   |   |   |   |       |       |   |   |   |   |       |       |   |   |   |   |       |       |   |   |   |   |      |  |  |  |  |  |      |       |   |     |   |     |      |       |   |     |     |     |       |       |   |     |     |     |       |       |   |     |     |     |
| 220 V                                                                                              | $I_e$          | A               | 0.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 0.2   | 0.2   |   |   |   |   |       |  |  |  |  |  |       |       |   |   |   |   |       |       |   |   |   |   |       |       |   |   |   |   |       |       |   |   |   |   |      |  |  |  |  |  |      |       |   |     |   |     |      |       |   |     |     |     |       |       |   |     |     |     |       |       |   |     |     |     |
| Rated conditional short-circuit current                                                            | $I_q$          | kA              | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |       |       |   |   |   |   |       |  |  |  |  |  |       |       |   |   |   |   |       |       |   |   |   |   |       |       |   |   |   |   |       |       |   |   |   |   |      |  |  |  |  |  |      |       |   |     |   |     |      |       |   |     |     |     |       |       |   |     |     |     |       |       |   |     |     |     |
| Short-circuit protection                                                                           |                |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |       |       |   |   |   |   |       |  |  |  |  |  |       |       |   |   |   |   |       |       |   |   |   |   |       |       |   |   |   |   |       |       |   |   |   |   |      |  |  |  |  |  |      |       |   |     |   |     |      |       |   |     |     |     |       |       |   |     |     |     |       |       |   |     |     |     |
| max. fuse                                                                                          |                | A gG/gL         | 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |       |       |   |   |   |   |       |  |  |  |  |  |       |       |   |   |   |   |       |       |   |   |   |   |       |       |   |   |   |   |       |       |   |   |   |   |      |  |  |  |  |  |      |       |   |     |   |     |      |       |   |     |     |     |       |       |   |     |     |     |       |       |   |     |     |     |
| Max. miniature circuit-breaker                                                                     |                | A               | FAZ-B6/B1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |       |       |   |   |   |   |       |  |  |  |  |  |       |       |   |   |   |   |       |       |   |   |   |   |       |       |   |   |   |   |       |       |   |   |   |   |      |  |  |  |  |  |      |       |   |     |   |     |      |       |   |     |     |     |       |       |   |     |     |     |       |       |   |     |     |     |
| Operating times                                                                                    |                |                 | <div>Early-make time of the HIV compared to the main contacts during with make and break switching.</div> <div>(switch times with manual operation):</div> <div>NZM1, PN1, N(S)1: ca. 20 ms</div> <div>NZM2, PN2, N(S)2: ca. 20 ms</div> <div>NZM3, PN3, N(S)3: ca. 20 ms</div> <div>NZM4, N(S)4: approx. 90 ms, the HIV switch early <b>Off</b>switching <b>not</b> forward.</div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |       |       |   |   |   |   |       |  |  |  |  |  |       |       |   |   |   |   |       |       |   |   |   |   |       |       |   |   |   |   |       |       |   |   |   |   |      |  |  |  |  |  |      |       |   |     |   |     |      |       |   |     |     |     |       |       |   |     |     |     |       |       |   |     |     |     |
| Terminal capacities                                                                                |                | mm <sup>2</sup> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |       |       |   |   |   |   |       |  |  |  |  |  |       |       |   |   |   |   |       |       |   |   |   |   |       |       |   |   |   |   |       |       |   |   |   |   |      |  |  |  |  |  |      |       |   |     |   |     |      |       |   |     |     |     |       |       |   |     |     |     |       |       |   |     |     |     |
| Solid or flexible conductor, with ferrule                                                          |                | mm <sup>2</sup> | 1 x (0,5 - 1,5)<br>2 x (0,5 - 0,75)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |       |       |   |   |   |   |       |  |  |  |  |  |       |       |   |   |   |   |       |       |   |   |   |   |       |       |   |   |   |   |       |       |   |   |   |   |      |  |  |  |  |  |      |       |   |     |   |     |      |       |   |     |     |     |       |       |   |     |     |     |       |       |   |     |     |     |
| Other technical data (sheet catalogue)                                                             |                |                 | Maximum equipment and position of the internal accessories                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |       |       |   |   |   |   |       |  |  |  |  |  |       |       |   |   |   |   |       |       |   |   |   |   |       |       |   |   |   |   |       |       |   |   |   |   |      |  |  |  |  |  |      |       |   |     |   |     |      |       |   |     |     |     |       |       |   |     |     |     |       |       |   |     |     |     |

Design verification as per IEC/EN 61439

|                                                                    |           |    |                                                             |
|--------------------------------------------------------------------|-----------|----|-------------------------------------------------------------|
| Dane techniczne dla zaświadczenia rodzaju konstrukcji              |           |    |                                                             |
| Znamionowy prąd pracy do podania straty mocy                       | $I_n$     | A  | 6                                                           |
| Strata mocy na biegun, w zależności od prądu                       | $P_{vid}$ | W  | 0.11                                                        |
| Strata mocy elementu eksploatacyjnego, w zależności od prądu       | $P_{vid}$ | W  | 0                                                           |
| Strata mocy statyczna, niezależnie od prądu                        | $P_{vs}$  | W  | 0                                                           |
| Zdolność oddawania straty mocy                                     | $P_{ve}$  | W  | 0                                                           |
| Robocza temperatura otoczenia min.                                 |           | °C | -25                                                         |
| Robocza temperatura otoczenia maks.                                |           | °C | 70                                                          |
| Certyfikat konstrukcji IEC/EN 61439                                |           |    |                                                             |
| 10.2 Wytrzymałość materiałów i części                              |           |    |                                                             |
| 10.2.2 Odporność na korozję                                        |           |    | Wymagania odnośnie normy produktowej zostały spełnione.     |
| 10.2.3.1 Wytrzymałość cieplna powłoki                              |           |    | Wymagania odnośnie normy produktowej zostały spełnione.     |
| 10.2.3.2 Rezystancja materiału izolacyjnego przy normalnym cieple  |           |    | Wymagania odnośnie normy produktowej zostały spełnione.     |
| 10.2.3.3 Rezystancja materiału izolacyjnego przy nietypowym cieple |           |    | Wymagania odnośnie normy produktowej zostały spełnione.     |
| 10.2.4 Wytrzymałość na działanie promieniowania UV                 |           |    | Wymagania odnośnie normy produktowej zostały spełnione.     |
| 10.2.5 Podnoszenie                                                 |           |    | Nie dotyczy, ponieważ należy ocenić całą szafę sterowniczą. |
| 10.2.6 Kontrola odporności na uderzenia                            |           |    | Nie dotyczy, ponieważ należy ocenić całą szafę sterowniczą. |
| 10.2.7 Napisy                                                      |           |    | Wymagania odnośnie normy produktowej zostały spełnione.     |
| 10.3 Stopień ochrony powłok                                        |           |    | Nie dotyczy, ponieważ należy ocenić całą szafę sterowniczą. |
| 10.4 Odstępy izolacyjne powietrzne i prądów pełzających            |           |    | Wymagania odnośnie normy produktowej zostały spełnione.     |
| 10.5 Ochrona przed porażeniem elektrycznym                         |           |    | Nie dotyczy, ponieważ należy ocenić całą szafę sterowniczą. |

|                                                           |  |  |                                                                                                                                               |
|-----------------------------------------------------------|--|--|-----------------------------------------------------------------------------------------------------------------------------------------------|
| 10.6 Montaż elementów eksploatacyjnych                    |  |  | Nie dotyczy, ponieważ należy ocenić całą szafę sterowniczą.                                                                                   |
| 10.7 Wewnętrzne obwody prądowe i połączenia               |  |  | Należy do zakresu odpowiedzialności wykonawcy szafy sterowniczej.                                                                             |
| 10.8 Przyłącza przewodów wchodzących z zewnątrz           |  |  | Należy do zakresu odpowiedzialności wykonawcy szafy sterowniczej.                                                                             |
| 10.9 Właściwości izolacji                                 |  |  |                                                                                                                                               |
| 10.9.2 Wytrzymałość elektryczna o częstotliwości roboczej |  |  | Należy do zakresu odpowiedzialności wykonawcy szafy sterowniczej.                                                                             |
| 10.9.3 Odporność na napięcie udarowe                      |  |  | Należy do zakresu odpowiedzialności wykonawcy szafy sterowniczej.                                                                             |
| 10.9.4 Sprawdzanie powłok z materiału izolacyjnego        |  |  | Należy do zakresu odpowiedzialności wykonawcy szafy sterowniczej.                                                                             |
| 10.10 Nagrzanie                                           |  |  | Oszacowanie nagrzania należy do zakresu odpowiedzialności wykonawcy szafy sterowniczej. Eator dostarczy danych na temat straty mocy aparatów. |
| 10.11 Odporność na zwarcia                                |  |  | Należy do zakresu odpowiedzialności wykonawcy szafy sterowniczej. Przestrzegać wytycznych odnośnie aparatów łączeniowych.                     |
| 10.12 Kompatybilność elektromagnetyczna                   |  |  | Należy do zakresu odpowiedzialności wykonawcy szafy sterowniczej. Przestrzegać wytycznych odnośnie aparatów łączeniowych.                     |
| 10.13 Działanie mechaniczne                               |  |  | Spełnienie wymagań w aparacie jest jednoznaczne z przestrzeganiem instrukcji montażu (IL).                                                    |

## Technical data ETIM 7.0

Urządzenia niskonapięciowe (EG000017) / Blok styków pomocniczych (EC000041)

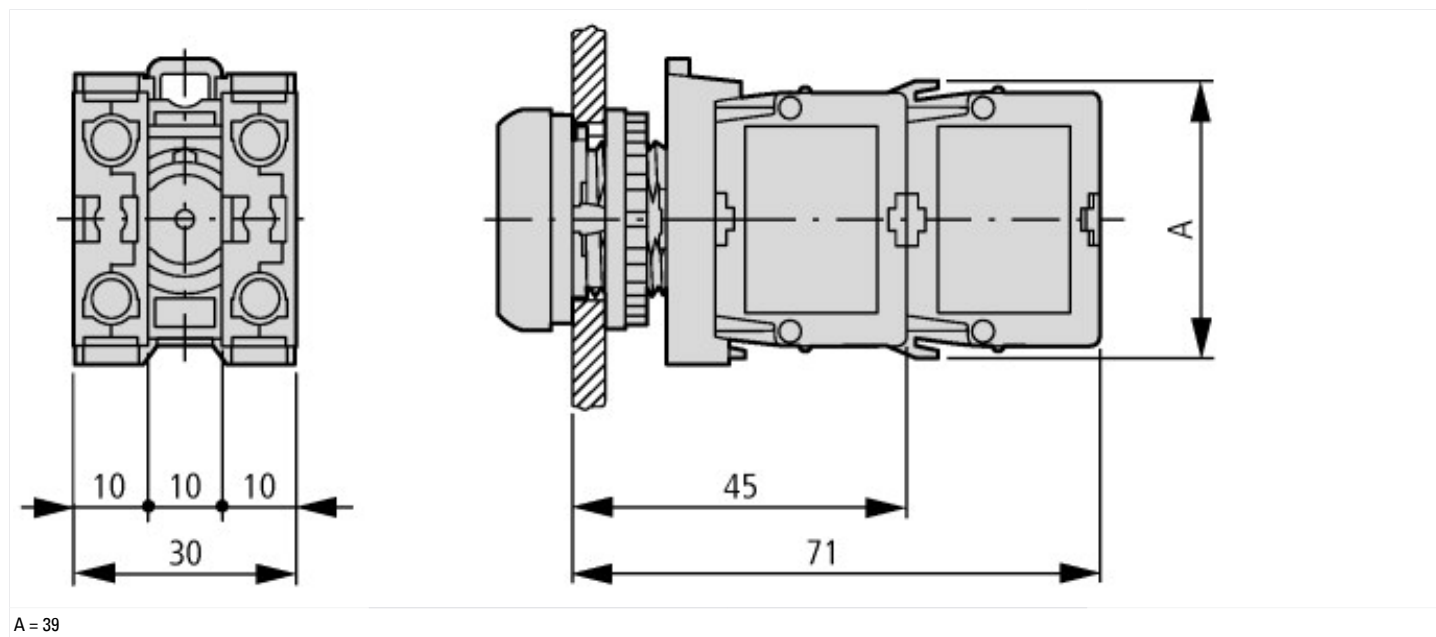
Elektrotechnika, automatyzacja i technologia / Rozdzielnice niskonapięciowe / Komponent do rozdzielnic niskiego napięcia / Blok styków pomocniczych (ecl@ss10.0.1-27-37-13-02 [AKN342013])

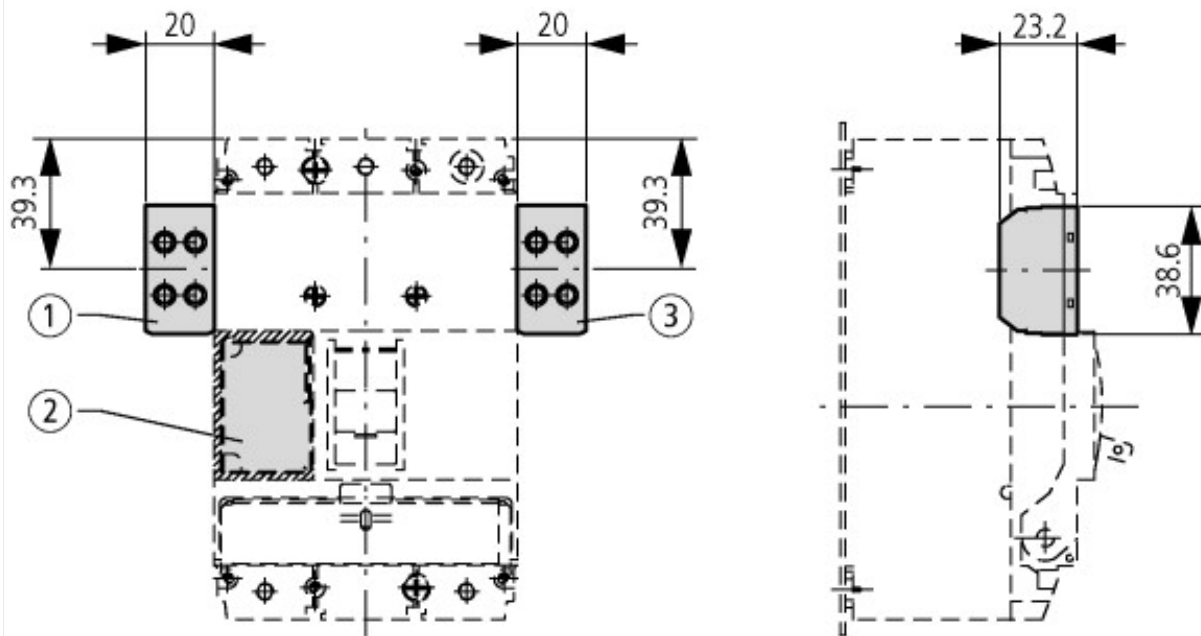
|                                           |  |   |                              |
|-------------------------------------------|--|---|------------------------------|
| Liczba styków przełącznych                |  |   | 0                            |
| Liczba styków zwiernych                   |  |   | 0                            |
| Liczba styków rozwiernych                 |  |   | 1                            |
| Liczba styków sygnalizacji błędu          |  |   | 0                            |
| Znamionowy prąd pracy Ie dla AC-15, 230 V |  | A | 6                            |
| Rodzaj połączenia elektrycznego           |  |   | Zacisk sprężynowy            |
| Model                                     |  |   | Montaż od góry, zintegrowany |
| Sposób montażu                            |  |   | Montaż czołowy               |
| Oprawka                                   |  |   | Brak                         |

## 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





Pushbutton with M22-(C)K...  
 Pushbutton with M22-(C) LED... + M22-XLED...

### Additional product information (links)

Infoblatt zum DGUV Test Zeichen

[http://www.dguv.de/medien/dguv-test-medien/\\_pdf\\_zip\\_doc\\_ppt/agb-und-pzo/dguv\\_test\\_zeichen\\_infoblatt\\_kunden.pdf](http://www.dguv.de/medien/dguv-test-medien/_pdf_zip_doc_ppt/agb-und-pzo/dguv_test_zeichen_infoblatt_kunden.pdf)

Maximale Bestückung und Position des internen Zubehörs

<http://de.ecat.moeller.net/flip-cat/?edition=HPLTEv1&startpage=17.176>