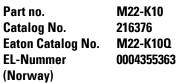
DATASHEET - M22-K10



Contact element, 1N/O, front mount, 6. contact, screw connection





Delivery program

| Bonnony 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 |
| Connection technique | | Screw terminals |
| Fixing | | Front fixing |
| Degree of Protection | | IP20 |
| Connection to SmartWire-DT | | no |
| For use with | | NZM1(-4), 2(-4), 3(-4), 4(-4) PN1(-4), 2(-4), 3(-4) N(S)1(-4), 2(-4), 3(-4), 4(-4) |
| Approval Contacts | | ET 16107 Sicherheit geprüft tested safety |
| N/O = Normally open | | 1 N/O |
| Actuator travel and actuation force as per DIN EN 60947-5-1, K.5.4.1 | | |
| Minimum force for positive opening | Ν | 0 |
| Contact sequence | | . 3 |
| Contact travel diagram, stroke in connection with front element | | |

| Contact diagram | 0 2.8 5.5 |
|--|---|
| Configuration | |
| connection type | Single contact |
| lescription 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 ca be clipped into the circuit-breaker. Can be used with NZM4 circuit-breaker: up to two standard auxiliary contacts ca 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. |
| lescription 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 | Screw terminals |
| lotes | |
| or Std. pack: | |

M22-(C)K...: Std. pack = 20 off

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 | x 10 ⁶ | > 5 |
| Operating frequency | Operations/h | | ≦ 3600 |
| Actuating force | | n | ≦5 |
| Operating torque (screw terminals) | | Nm | ≦ 0.8 |
| Degree of Protection | | | IP20 |
| Climatic proofing | | | Damp heat, constant, to IEC 60068-2-78 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 ² | |
| Solid | | mm ² | 0.75 - 2.5 |
| Stranded | | mm ² | 0.5 - 2.5 |
| Flexible with ferrule | | mm ² | 0.5 - 1.5 |

Contacts

| Contacts | | | |
|---|------------------|---------------------|--|
| Rated impulse withstand voltage | U _{imp} | V AC | 6000 |
| Rated insulation voltage | Ui | V | 500 |
| Overvoltage category/pollution degree | | | III/3 |
| Control circuit reliability | | | |
| at 24 V DC/5 mA | H _F | Fault probabilit | < 10 ⁻⁷ (i.e. 1 failure to 10 ⁷ operations) ity |
| at 5 V DC/1 mA | H _F | Fault probabilit | < 5 x 10 ⁻⁶ (i.e. 1 failure in 5 x 10 ⁶ operations) ity |
| Max. short-circuit protective device | | | |
| Fuseless | | Туре | PKZM0-10/FAZ-B6/1 |
| Fuse | gG/gL | A | 10 |
| Switching capacity | | ٨ | |
| Rated operational current | le | A | |
| AC-15 | | | |
| 115 V | l _e | A | 6 |
| 220 V 230 V 240 V | l _e | A | 6 |
| 380 V 400 V 415 V | l _e | A | 4 |
| 500 V | l _e | А | 2 |
| DC-13 | | | |
| 24 V | le | А | 3 |
| 42 V | l _e | А | 1.7 |
| 60 V | l _e | А | 1.2 |
| 110 V | l _e | А | 0.6 |
| 220 V | l _e | A | 0.3 |
| Lifespan, electrical | | | |
| AC-15 | | | |
| 230 V/0.5 A | Operations | x 10 ⁶ | 1.6 |
| 230 V/1.0 A | Operations | x 10 ⁶ | 1 |
| 230 V/3.0 A | Operations | | 0.7 |
| | operations | x 10 ⁶ | |
| DV-13 | 0 | 0 | 10 |
| 12 V/2.8 A | Operations | x 10 ⁶ | 1.2 |
| Auxiliary contacts Rated operational voltage | U _e | V | |
| | | | 500 |
| Rated operational voltage Rated operational voltage, max. | Ue Ue | V AC V DC | 220 |
| Conventional thermal current | | CSA | 4 |
| | $I_{th} = I_e$ | | • |
| Rated operational current Different rated operational currents when used as auxiliary contact for NZM circuit-breaker | le | A | M22- M22- XHIV (C)K10(01)CK11(02) |
| | | | (20) bei AC = |
| | | | 50/60 Hz |
| | | | Bemessungsbetriebsstrom |
| | | | AC-1515 le A 4 4 4 V |
| | | | 230 le A 4 4 4 V |
| | | | 400 le A 2 - 2 V |
| | | | 500 le A 1 - 1 |
| | | | V DC-124V le A 3 3 3 |
| | | | 42 V le A 1.7 1 1.5 60 V le A 1.2 0.8 0.8 |
| | | | 110 le A 0.6 0.5 0.5 V |
| | | | V 220 le A 0.3 0.2 0.2 V |
| Short-circuit protection | | | |
| max. fuse | | A gG/gL | 10 |
| Max. miniature circuit-breaker | | А | FAZ-B6/B1 |

| | | | Early-make time of the HIV compared to the main contacts during with make and |
|---|----------------|-----------------|---|
| | | | break switching. |
| | | | (switch times with manual operation): |
| | | | NZM1, PN1, N(S)1: ca. 20 ms |
| | | | NZM2, PN2, N(S)2: ca. 20 ms |
| | | | NZM3, PN3, N(S)3: ca. 20 ms |
| | | | NZM4, N(S)4: approx. 90 ms, the HIV switch early Off switching not forward. |
| Terminal capacities | | mm ² | |
| Solid or flexible conductor, with ferrule | | mm ² | 1 x (0,75 - 2,5) 2 x (0,75 - 2,5) |
| UL/CSA | | | |
| Rated operational current | l _e | А | 5 A – 600 V AC 1 A - 250 V DC |
| Other technical data (sheet catalogue) | | | Maximum equipment and position of the internal accessories |

Design verification as per IEC/EN 61439

| Eaton will |
|--------------|
| gear must be |
| gear must be |
| |
| 1 |

Technical data ETIM 7.0

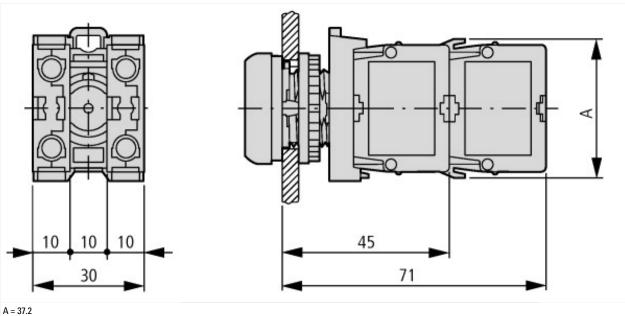
Low-voltage industrial components (EG000017) / Auxiliary contact block (EC000041)

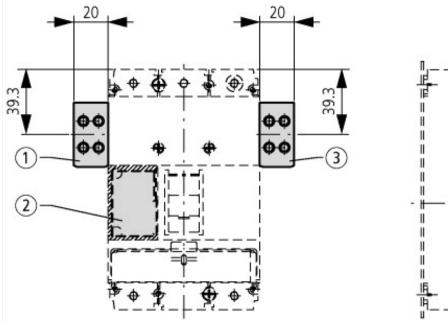
Electric engineering, automation, process control engineering / Low-voltage switch technology / Component for low-voltage switching technology / Auxiliary switch block (ecl@ss10.0.1-27-37-13-02 [AKN342013]) 0 Number of contacts as change-over contact Number of contacts as normally open contact 1 Number of contacts as normally closed contact 0 Number of fault-signal switches 0 Rated operation current le at AC-15, 230 V А 6 Type of electric connection Screw connection Model Top mounting and integrable Mounting method Front fastening Lamp holder None

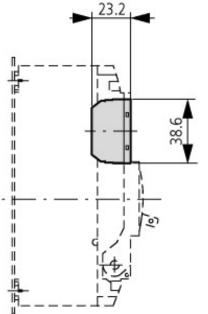
Approvals

| IEC/EN 60947-5; UL 508; CSA-C22.2 No. 14-05; CSA-C22.2 No. 94-91; CE marking |
|--|
| E29184 |
| NKCR |
| 012528 |
| 3211-03 |
| UL listed, CSA certified |
| UL/CSA Type: - |
| |

Dimensions







Additional product information (links)

| IL04716002Z (AWA1160-1745) RMQ-Titan Syste | m |
|--|--|
| IL04716002Z (AWA1160-1745) RMQ-Titan System | ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL04716002Z2018_10.pdf |
| DGUV Test Mark Customer Information | http://www.dguv.de/medien/dguv-test-medien/_pdf_zip_doc_ppt/agb-und-pzo/dguv_test_zeichen_infoblatt_kunden.pdf |
| Maximum equipment and position of the internal accessories | http://ecat.moeller.net/flip-cat/?edition=HPLEN&startpage=17.178 |