Motor-protective circuit-breaker, 3p, Ir=20-25A

Powering Business Worldwide*

Part no. PKZM0-25-T 278493

EL Number 4315198

(Norway)

| (Norway) | |
|------------------------------------------------|----------------------------------------------------------------------------------------------------------------|
| General specifications | |
| Product name | Eaton Moeller® series PKZM0 Transformer-protective circuit-breaker |
| Part no. | PKZM0-25-T |
| EAN | 4015082784935 |
| Product Length/Depth | 76 millimetre |
| Product height | 93 millimetre |
| Product width | 45 millimetre |
| Product weight | 0.291 kilogram |
| Certifications | VDE 0660 IEC/EN 60947 |
| Product Tradename | PKZM0 |
| Product Type | Transformer-protective circuit-breaker |
| Product Sub Type | None |
| Catalog Notes | IE3-ready devices are identified by the logo on their packaging. |
| Features & Functions | |
| Actuator type | Turn button |
| Features | Complete device with protection unit |
| . 68.41.60 | Phase-failure sensitivity (according to IEC/EN 60947-4-1, VDE 0660 Part 102) |
| Fitted with: | Switched-off indicator |
| Functions | For the protection of transformers with a high inrush current Transformer protection |
| Number of poles | Three-pole |
| General information | |
| Connection | Screw terminals |
| Degree of protection | IP20 Terminals: IP00 |
| Lifespan, electrical | 100,000 operations (at 400V, AC-3) |
| Lifespan, mechanical | 100,000 Operations (Main conducting paths) |
| Mounting position | Can be snapped on to IEC/EN 60715 top-hat rail with 7.5 or 15 mm height. |
| Operating frequency | 40 Operations/h |
| Overvoltage category | III |
| Pollution degree | 3 |
| Product category | Transformer protective circuit breaker |
| Protection | Finger and back-of-hand proof, Protection against direct contact when actuated from front (EN 50274) |
| Rated impulse withstand voltage (Uimp) | 6000 V AC |
| Shock resistance | 25 g, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 10 ms |
| Suitable for | Also motors with efficiency class IE3 DIN rail (top hat rail) mounting |
| Temperature compensation | -25 - 55 °C, Operating range ≤ 0.25 %/K, residual error for T > 40° -5 - 40 °C to IEC/EN 60947, VDE 0660 |
| Climatic environmental conditions | |
| Altitude | Max. 2000 m |
| Ambient operating temperature - min | -25 °C |
| Ambient operating temperature - max | 55 °C |
| Ambient operating temperature (enclosed) - min | 25 °C |
| Ambient operating temperature (enclosed) - max | 40 °C |
| Ambient storage temperature - min | 40 °C |
| | 80 °C |
| Ambient storage temperature - max | |
| Climatic proofing | Damp heat, constant, to IEC 60068-2-78 |

| 1 x (1 - 6) mm ² , ferrule to DIN 46228 |
|------------------------------------------------------------------------------------------------------------|
| 2 x (1 - 6) mm², ferrule to DIN 46228 |
| 2 x (1 - 6) mm ² 1 x (1 - 6) mm ² |
| 18 - 10 |
| 10 mm |
| 1 Nm, Screw terminals, Control circuit cables |
| 1.7 Nm, Screw terminals, Main cable |
| |
| 50 Hz |
| 60 Hz |
| 25 A |
| 690 V |
| 690 V |
| 25 A |
| |
| 50 kA |
| 38 kA |
| 10 kA |
| 3 kA |
| 3 kA |
| 3 kA |
| 3 kA |
| 1 kA |
| 40 kA DC, up to 250 V DC, Main conducting paths |
| ± 20% tolerance, Trip blocks Basic device, fixed 20 x lu, Trip Blocks 437 A, Irm, Setting range max. |
| |
| 25 A, AC-3 up to 690 V 25 A (3 contacts in series), DC-5 up to 250V |
| |
| 0 |
| 0 |
| 0 |
| |
| 20 A |
| 25 A |
| |
| 6.83 W |
| 0 W |
| 2.28 W |
| 25 A |
| 0 W |
| Meets the product standard's requirements. |
| Does not apply, since the entire switchgear needs to be evaluated. |
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| Meets the product standard's requirements. |
| Does not apply, since the entire switchgear needs to be evaluated. |
| |
| |

| 10.6 Incorporation of switching devices and components | Does not apply, since the entire switchgear needs to be evaluated. |
|----------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| 10.7 Internal electrical circuits and connections | Is the panel builder's responsibility. |
| 10.8 Connections for external conductors | Is the panel builder's responsibility. |
| 10.9.2 Power-frequency electric strength | Is the panel builder's responsibility. |
| 10.9.3 Impulse withstand voltage | Is the panel builder's responsibility. |
| 10.9.4 Testing of enclosures made of insulating material | Is the panel builder's responsibility. |
| 10.10 Temperature rise | The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices. |
| 10.11 Short-circuit rating | Is the panel builder's responsibility. The specifications for the switchgear must be observed. |
| 10.12 Electromagnetic compatibility | Is the panel builder's responsibility. The specifications for the switchgear must be observed. |
| 10.13 Mechanical function | The device meets the requirements, provided the information in the instruction leaflet (IL) is observed. |

Technical data ETIM 9.0

Low-voltage industrial components (EG000017) / Power circuit-breaker for trafo/generator/installation protection (EC000228)

Electric engineering, automation, process control engineering / Low-voltage switch technology / Circuit breaker (LV < 1 kV) / Circuit breaker for power transformer, generator and system protection (ecl@ss13-27-37-04-09 [AJZ716018])

| Rated voltage Rated short-circuit breaking capacity lou at 400 V, 50 Hz Overload release current setting Adjustment range short-term delayed short-circuit release Adjustment range undelayed short-circuit release Adjustment range und | | | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|----|------------------------------------------|
| Rated short-circuit breaking capacity lcu at 400 V, 50 Hz Overload release current setting A 20-25 Adjustment range short-term delayed short-circuit release A 3 0-0 Adjustment range undelayed short-circuit release A 4 20-420 Power loss W 6.83 Device construction Integrated earth fault protection Type of electrical connection of main circuit With switched-off indicator With switched-off indicator With switched-off indicator With integrated under voltage release Noumber of poles Position of connection for main current circuit Complete device with protection unit Motor drive optional A 20-25 A 20-26 A 20-20 A 20-20 A 20-80 A 20-8 | Rated permanent current lu | Α | 25 |
| Overload release current setting A 20 - 25 Adjustment range short-term delayed short-circuit release A 0 - 0 Adjustment range undelayed short-circuit release A 420 - 420 Power loss W 6.83 Device construction Built-in device fixed built-in technique Integrated earth fault protection No Type of electrical connection of main circuit Screw connection Suitable for DIN rail (top hat rail) mounting Yes Number of auxiliary contacts as normally closed contact Yes Number of auxiliary contacts as change-over contact Yes With switched-off indicator Yes With integrated under voltage release No Number of poles 3 Position of connection for main current circuit Other Type of control element Turn button Complete device with protection unit Yes Motor drive integrated No Motor drive optional No | Rated voltage | V | 690 - 690 |
| Adjustment range short-term delayed short-circuit release A 0 - 0 Adjustment range undelayed short-circuit release A 20 - 420 Power loss W 6.83 Device construction Integrated earth fault protection Type of electrical connection of main circuit Suitable for DIN rail (top hat rail) mounting DIN rail (top hat rail) mounting DIN rail (top hat rail) mounting Optional Number of auxiliary contacts as normally closed contact Vivin the switched-off indicator Vivin the switched-off indicator Vivin the system of connection for main current circuit Vivin the grated under voltage release Vivin the grated under voltage release Vivin the grated under voltage release Vivin the control element Complete device with protection unit Motor drive integrated Motor drive integrated Motor drive integrated Motor drive optional Notor N | Rated short-circuit breaking capacity Icu at 400 V, 50 Hz | kA | 50 |
| Adjustment range undelayed short-circuit release A 420 - 420 Power loss Device construction Device construction Integrated earth fault protection Type of electrical connection of main circuit Suitable for DIN rail (top hat rail) mounting DIN rail (top hat rail) mounting optional Number of auxiliary contacts as normally closed contact Number of auxiliary contacts as normally open contact Number of auxiliary contacts as normally open contact With switched-off indicator With integrated under voltage release Number of poles Position of connection for main current circuit Type of control element Complete device with protection unit Motor drive integrated Motor drive optional A 420 - 420 Built-in device fixed built-in technique Built-in device fixed built-in technique Built-in device fixed built-in technique No Screw connection Yes O 0 O 0 O 0 O 0 O 0 O 0 O 0 O | Overload release current setting | Α | 20 - 25 |
| Power loss Device construction Device construction Integrated earth fault protection Integrated earth fault protection Type of electrical connection of main circuit Suitable for DIN rail (top hat rail) mounting DIN rail (top hat rail) mounting optional Number of auxiliary contacts as normally closed contact Number of auxiliary contacts as normally open contact Number of auxiliary contacts as change-over contact With switched-off indicator With integrated under voltage release With integrated under voltage release Nounber of poles Position of connection for main current circuit Type of control element Complete device with protection unit Motor drive integrated Motor drive integrated Motor drive optional | Adjustment range short-term delayed short-circuit release | Α | 0 - 0 |
| Device construction Integrated earth fault protection Type of electrical connection of main circuit Suitable for DIN rail (top hat rail) mounting DIN rail (top hat rail) mounting optional Number of auxiliary contacts as normally closed contact Number of auxiliary contacts as normally open contact Number of auxiliary contacts as change-over contact Number of auxiliary contacts as change-over contact With switched-off indicator With switched-off indicator With integrated under voltage release No Number of poles Position of connection for main current circuit Type of control element Complete device with protection unit Motor drive integrated Motor drive optional | Adjustment range undelayed short-circuit release | Α | 420 - 420 |
| Integrated earth fault protection Type of electrical connection of main circuit Suitable for DIN rail (top hat rail) mounting DIN rail (top hat rail) mounting optional Number of auxiliary contacts as normally closed contact Number of auxiliary contacts as normally open contact Number of auxiliary contacts as normally open contact Number of auxiliary contacts as change-over contact No No No No No No No No No N | Power loss | W | 6.83 |
| Type of electrical connection of main circuit Suitable for DIN rail (top hat rail) mounting DIN rail (top hat rail) mounting optional Number of auxiliary contacts as normally closed contact Number of auxiliary contacts as normally open contact Number of auxiliary contacts as change-over contact Number of policator Number of poles No No Number of poles Position of connection for main current circuit Type of control element Complete device with protection unit Motor drive integrated Motor drive optional | Device construction | | Built-in device fixed built-in technique |
| Suitable for DIN rail (top hat rail) mounting DIN rail (top hat rail) mounting optional Yes Number of auxiliary contacts as normally closed contact Number of auxiliary contacts as normally open contact Number of auxiliary contacts as normally open contact Number of auxiliary contacts as change-over contact Number of auxiliary contacts as change-over contact With switched-off indicator With integrated under voltage release No Number of poles Position of connection for main current circuit Type of control element Complete device with protection unit Motor drive integrated Motor drive optional Yes Yes No No No No No No No No No N | Integrated earth fault protection | | No |
| DIN rail (top hat rail) mounting optional Number of auxiliary contacts as normally closed contact Number of auxiliary contacts as normally open contact Number of auxiliary contacts as change-over contact Number of auxiliary contacts as change-over contact Number of auxiliary contacts as change-over contact With switched-off indicator With integrated under voltage release No Number of poles 3 Position of connection for main current circuit Type of control element Complete device with protection unit Motor drive integrated Motor drive optional Yes No No No No No No No No No N | Type of electrical connection of main circuit | | Screw connection |
| Number of auxiliary contacts as normally closed contact Number of auxiliary contacts as normally open contact Number of auxiliary contacts as change-over contact Number of auxiliary contacts as change-over contact Number of auxiliary contacts as change-over contact Notes With switched-off indicator With switched-off indicator With integrated under voltage release Notes Notes Notes Position of connection for main current circuit Type of control element Complete device with protection unit Yes Motor drive integrated Notes Motor drive optional Notes Not | Suitable for DIN rail (top hat rail) mounting | | Yes |
| Number of auxiliary contacts as normally open contact Number of auxiliary contacts as change-over contact With switched-off indicator With integrated under voltage release With integrated under voltage release No Number of poles 3 Position of connection for main current circuit Type of control element Complete device with protection unit Wotor drive integrated Motor drive optional O O O O O O O O O O O O O | DIN rail (top hat rail) mounting optional | | Yes |
| Number of auxiliary contacts as change-over contact With switched-off indicator Yes With integrated under voltage release With integrated under voltage release No Number of poles 3 Position of connection for main current circuit Type of control element Complete device with protection unit Motor drive integrated Motor drive optional O Complete device with protection unit No No No No No No No No No N | Number of auxiliary contacts as normally closed contact | | 0 |
| With switched-off indicator With integrated under voltage release No Number of poles Solution of connection for main current circuit Type of control element Complete device with protection unit Motor drive integrated Motor drive optional Yes No No No No No No No No No N | Number of auxiliary contacts as normally open contact | | 0 |
| With integrated under voltage release No Number of poles Solution of connection for main current circuit Type of control element Complete device with protection unit Motor drive optional No No No No No No No No No No | Number of auxiliary contacts as change-over contact | | 0 |
| Number of poles Position of connection for main current circuit Type of control element Complete device with protection unit Motor drive integrated Motor drive optional 3 Other Turn button Yes No No | With switched-off indicator | | Yes |
| Position of connection for main current circuit Type of control element Complete device with protection unit Motor drive optional Other Turn button Yes No No | With integrated under voltage release | | No |
| Type of control element Complete device with protection unit Motor drive optional Turn button Yes No No | Number of poles | | 3 |
| Complete device with protection unit Yes Motor drive optional No No | Position of connection for main current circuit | | Other |
| Motor drive integrated No Motor drive optional No | Type of control element | | Turn button |
| Motor drive optional No | Complete device with protection unit | | Yes |
| · | Motor drive integrated | | No |
| Degree of protection (IP) | Motor drive optional | | No |
| | Degree of protection (IP) | | IP20 |