






Circuit-breaker, 3p, 125A, plug-in module

Part no. **NZMN2-A125-SVE**
 Catalog No. **113243**

Similar to illustration

Delivery program

| | | | |
|---|--------------------------|----|------------------|
| Standard/Approval | | | IEC |
| Installation type | | | Plug-in units |
| Standard equipment | | | Screw connection |
| Switching capacity | | | |
| 400/415 V 50 Hz | I_{cu} | kA | 50 |
| Rated current = rated uninterrupted current | | | |
| Rated current = rated uninterrupted current | $I_n = I_u$ | A | 125 |
| Setting range | | | |
| Overload trip | | | |
|  | I_r | A | 100 - 125 |
| Short-circuit releases | | | |
|  | | | |
| Non-delayed | $I_j = I_n \times \dots$ | | 6 - 10 |
|  | | | |

Technical data

General

| | | | |
|------------------------------|--|----|-------------|
| Ambient temperature | | | |
| Ambient temperature, storage | | °C | - 40 - + 70 |
| Operation | | °C | -25 - +70 |

Circuit-breakers

| | | | |
|---|-------------|---|-----|
| Rated current = rated uninterrupted current | $I_n = I_u$ | A | 125 |
|---|-------------|---|-----|

Switching capacity

| | | | |
|--|----------|----|-----|
| Rated short-circuit breaking capacity I_{cn} | I_{cn} | | |
| Icu to IEC/EN 60947 test cycle O-t-CO | I_{cu} | kA | |
| 240 V 50/60 Hz | I_{cu} | kA | 85 |
| 400/415 V 50/60 Hz | I_{cu} | kA | 50 |
| 440 V 50/60 Hz | I_{cu} | kA | 35 |
| 525 V 50/60 Hz | I_{cu} | kA | 25 |
| 690 V 50/60 Hz | I_{cu} | kA | 20 |
| 500 V DC | I_{cu} | kA | 30 |
| 750 V DC | I_{cu} | kA | 30 |
| Ics to IEC/EN 60947 test cycle O-t-CO-t-CO | I_{cs} | kA | |
| 500 V DC | I_{cs} | kA | 7.5 |
| 750 V DC | I_{cs} | kA | 7.5 |

Terminal capacity

| | | | |
|--------------------|--|--|------------------|
| Standard equipment | | | Screw connection |
|--------------------|--|--|------------------|

Design verification as per IEC/EN 61439

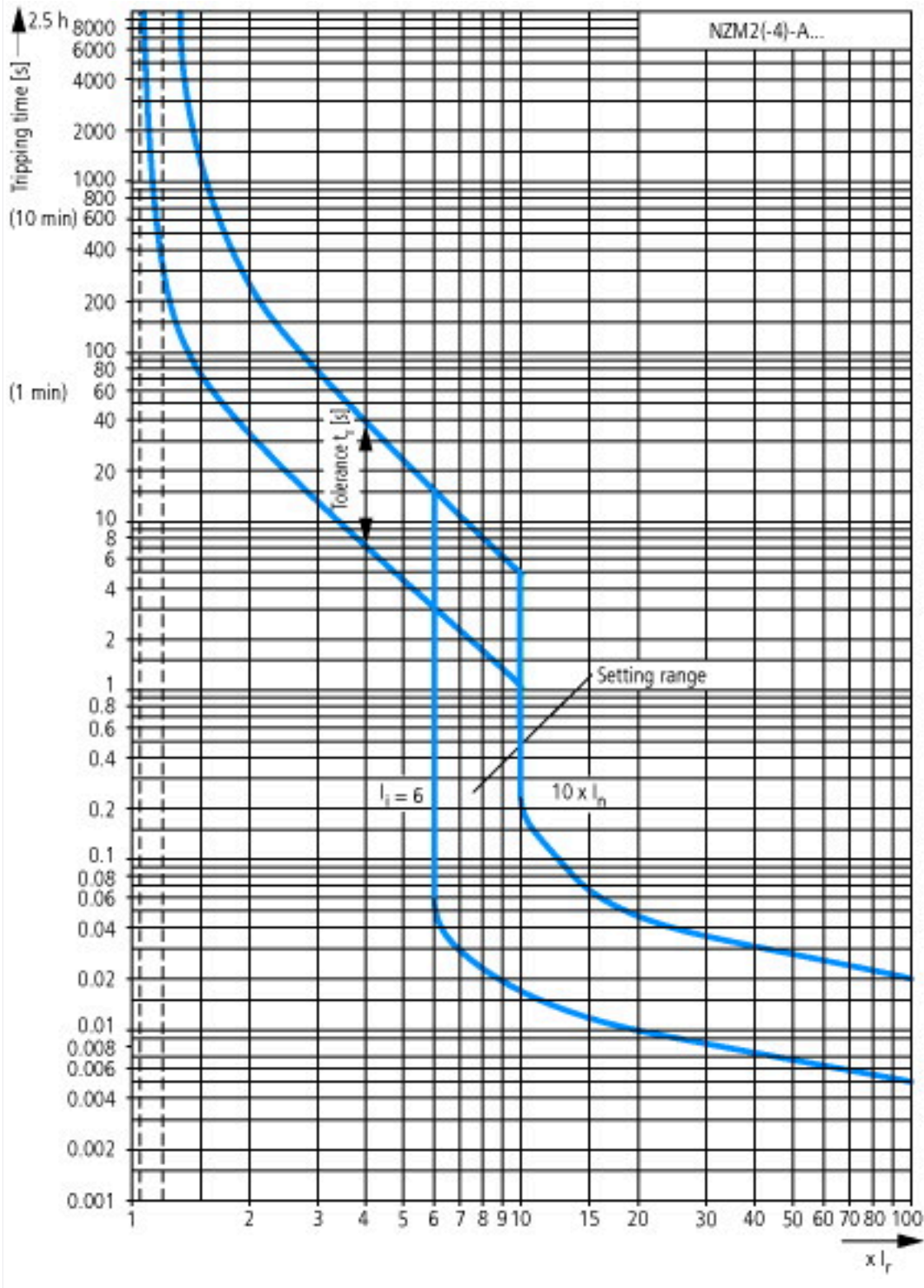
| Technical data for design verification | | | |
|--|------------------|----|--|
| Equipment heat dissipation, current-dependent | P _{vid} | W | 27.61 |
| Operating ambient temperature min. | | °C | -25 |
| Operating ambient temperature max. | | °C | 70 |
| IEC/EN 61439 design verification | | | |
| 10.2 Strength of materials and parts | | | |
| 10.2.2 Corrosion resistance | | | Meets the product standard's requirements. |
| 10.2.3.1 Verification of thermal stability of enclosures | | | Meets the product standard's requirements. |
| 10.2.3.2 Verification of resistance of insulating materials to normal heat | | | Meets the product standard's requirements. |
| 10.2.3.3 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric effects | | | Meets the product standard's requirements. |
| 10.2.4 Resistance to ultra-violet (UV) radiation | | | Meets the product standard's requirements. |
| 10.2.5 Lifting | | | Does not apply, since the entire switchgear needs to be evaluated. |
| 10.2.6 Mechanical impact | | | Does not apply, since the entire switchgear needs to be evaluated. |
| 10.2.7 Inscriptions | | | Meets the product standard's requirements. |
| 10.3 Degree of protection of ASSEMBLIES | | | Does not apply, since the entire switchgear needs to be evaluated. |
| 10.4 Clearances and creepage distances | | | Meets the product standard's requirements. |
| 10.5 Protection against electric shock | | | 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 Insulation properties | | | |
| 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. |

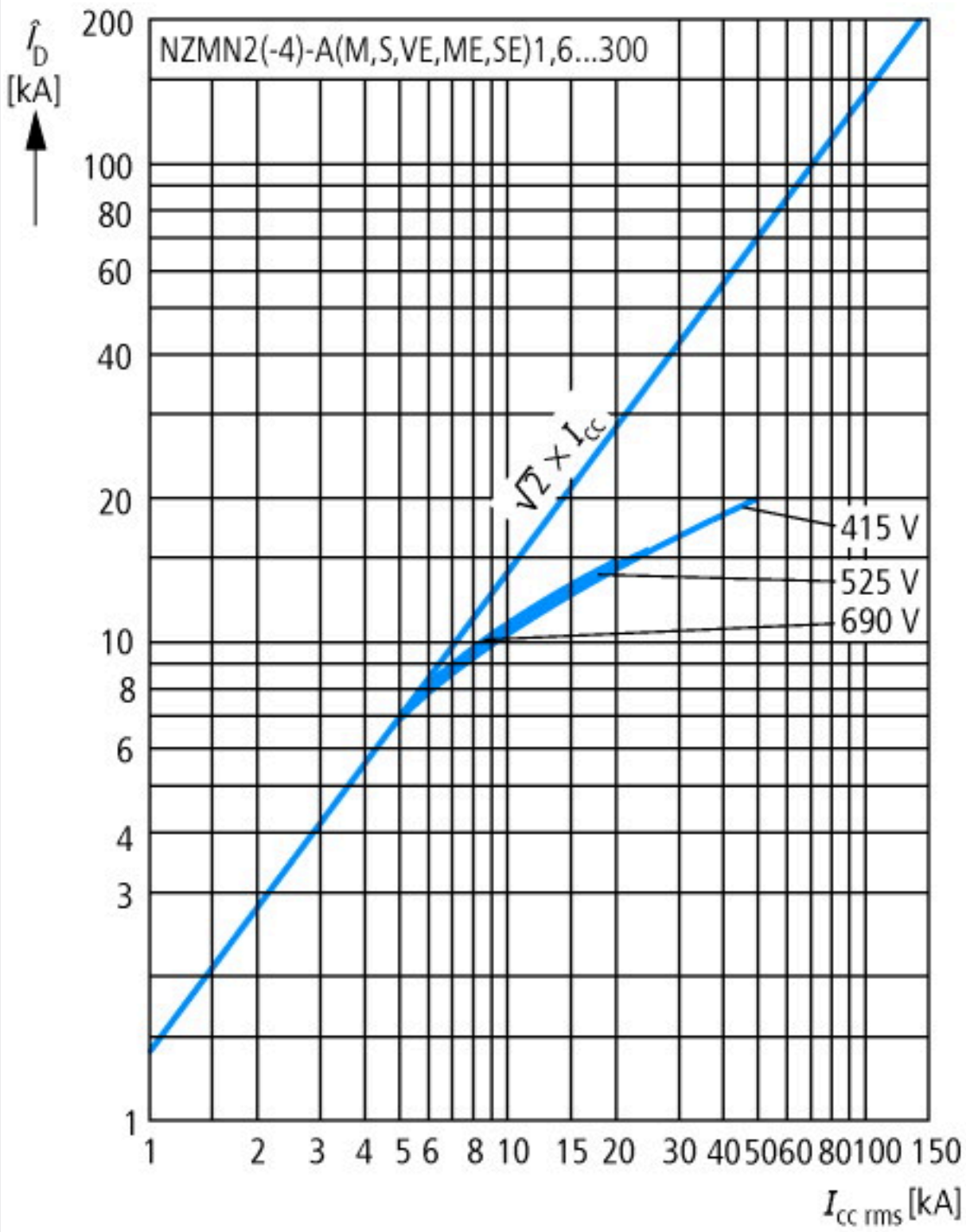
Technical data ETIM 7.0

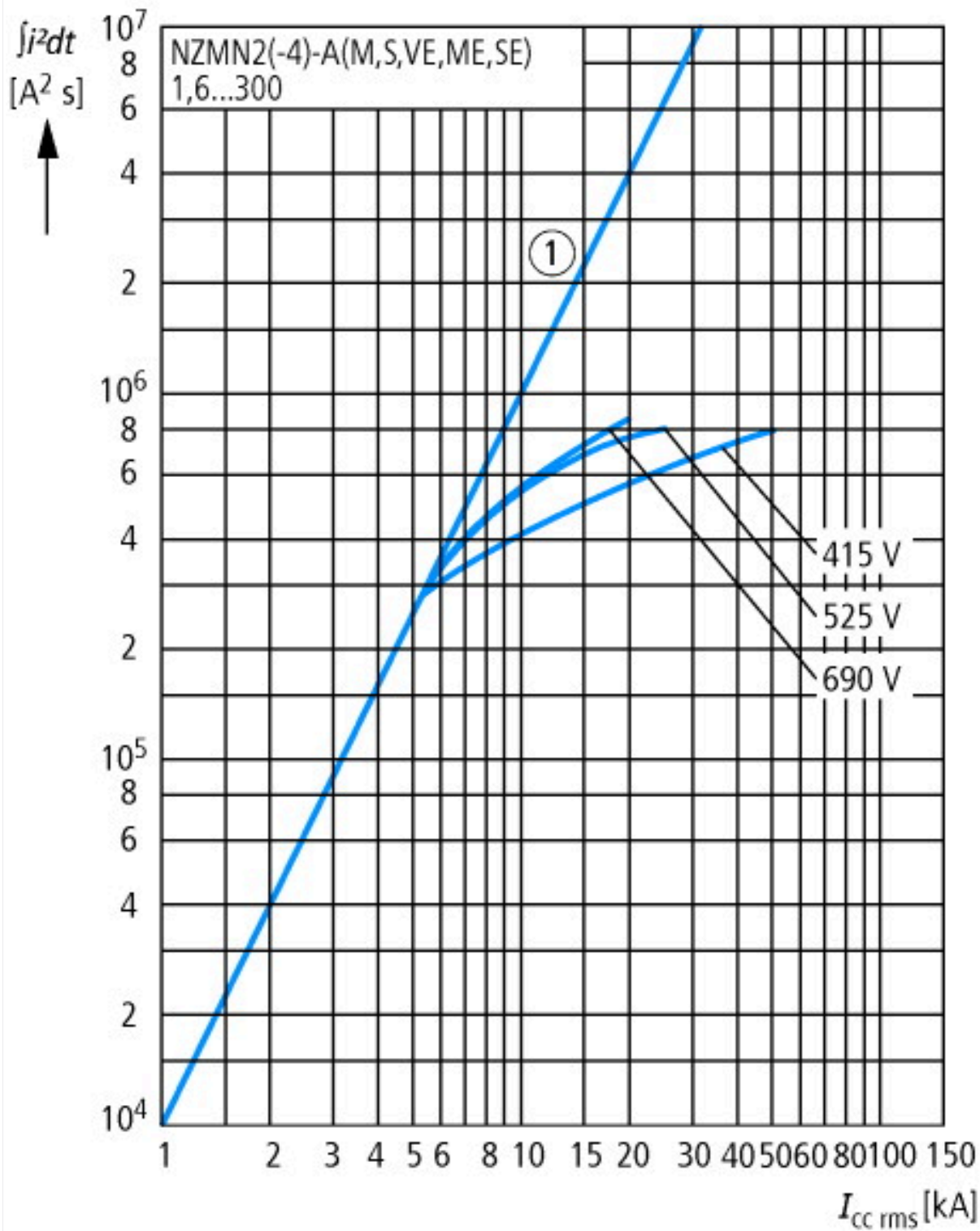
| Low-voltage industrial components (EG000017) / Power circuit-breaker for trafo/generator/installation protection (EC000228) | | | |
|---|--|----|-----------------------------------|
| Electric engineering, automation, process control engineering / Low-voltage switch technology / Circuit breaker (LV < 1 kV) / Circuit breaker for power transformer, generator and system protection (ecl@ss10.0.1-27-37-04-09 [AJZ716013]) | | | |
| Rated permanent current I _u | | A | 125 |
| Rated voltage | | V | 690 - 690 |
| Rated short-circuit breaking capacity I _{cu} at 400 V, 50 Hz | | kA | 50 |
| Overload release current setting | | A | 100 - 125 |
| Adjustment range short-term delayed short-circuit release | | A | 0 - 0 |
| Adjustment range undelayed short-circuit release | | A | 750 - 1250 |
| Integrated earth fault protection | | | No |
| Type of electrical connection of main circuit | | | Screw connection |
| Device construction | | | Built-in device plug-in technique |
| Suitable for DIN rail (top hat rail) mounting | | | No |
| DIN rail (top hat rail) mounting optional | | | Yes |
| Number of auxiliary contacts as normally closed contact | | | 0 |
| Number of auxiliary contacts as normally open contact | | | 0 |
| Number of auxiliary contacts as change-over contact | | | 0 |
| With switched-off indicator | | | No |
| With under voltage release | | | No |
| Number of poles | | | 3 |
| Position of connection for main current circuit | | | Front side |
| Type of control element | | | Rocker lever |

| | | |
|--------------------------------------|--------------------------|------|
| Complete device with protection unit | <input type="checkbox"/> | Yes |
| Motor drive integrated | <input type="checkbox"/> | No |
| Motor drive optional | <input type="checkbox"/> | Yes |
| Degree of protection (IP) | <input type="checkbox"/> | IP20 |

Characteristics







Additional product information (links)

additional technical information for NZM power switch

ftp://ftp.moeller.net/DOCUMENTATION/PDF/nzm_techinc_de_en.pdf