## DATASHEET - NZMN2-A125-BT

Circuit-breaker, 3 p, 125A, box terminals



Part no.	NZMN2-A125-BT	
	174617	
EL Number	4358747	
(Norway)		

## **General specifications**

Product name	Eaton Moeller series NZM molded case circuit breaker thermo-magnetic
Part no.	NZMN2-A125-BT
EAN	4015081710720
Product Length/Depth	149 millimetre
Product height	184 millimetre
Product width	105 millimetre
Product weight	2.724 kilogram
Compliances	RoHS conform
Certifications	IEC IEC/EN 60947
Product Tradename	NZM
Product Type	Molded case circuit breaker
Product Sub Type	Thermo-magnetic
Delivery program	
Application	Use in unearthed supply systems at 690 V
Туре	Circuit breaker
Circuit breaker frame type	NZM2
Number of poles	Three-pole
Amperage Rating	125 A
Release system	Thermomagnetic release
Factures	Motor drive optional
Features	Protection unit
Features Special features	
	Protection unit Maximum back-up fuse, if the expected short-circuit currents at the installation location exceed the switching capacity of the circuit breaker (Rated short-circuit breaking capacity Icn)
Special features	Protection unit Maximum back-up fuse, if the expected short-circuit currents at the installation location exceed the switching capacity of the circuit breaker (Rated short-circuit breaking capacity Icn)
Special features Technical Data - Electrical	Protection unit Maximum back-up fuse, if the expected short-circuit currents at the installation location exceed the switching capacity of the circuit breaker (Rated short-circuit breaking capacity Icn) Rated current = rated uninterrupted current: 125 A
Special features       Technical Data - Electrical       Voltage rating	Protection unit Maximum back-up fuse, if the expected short-circuit currents at the installation location exceed the switching capacity of the circuit breaker (Rated short-circuit breaking capacity lcn) Rated current = rated uninterrupted current: 125 A 690 V - 690 V
Special features       Image: Comparison of the sector of th	Protection unit Maximum back-up fuse, if the expected short-circuit currents at the installation location exceed the switching capacity of the circuit breaker (Rated short-circuit breaking capacity lcn) Rated current = rated uninterrupted current: 125 A 690 V - 690 V 750 V DC
Special features       Special features       Voltage rating       Voltage rating (DC)       Rated insulation voltage (Ui)	Protection unit Maximum back-up fuse, if the expected short-circuit currents at the installation location exceed the switching capacity of the circuit breaker (Rated short-circuit breaking capacity lcn) Rated current = rated uninterrupted current: 125 A 690 V - 690 V 750 V DC 1000 V AC
Special features       Image: Constraint of the sector of th	Protection unit         Maximum back-up fuse, if the expected short-circuit currents at the installation location exceed the switching capacity of the circuit breaker (Rated short-circuit breaking capacity Icn) Rated current = rated uninterrupted current: 125 A         690 V - 690 V         690 V - 690 V         750 V DC         1000 V AC         6000 V
Special features       Image: Constant of the sector of the	Protection unit         Maximum back-up fuse, if the expected short-circuit currents at the installation location exceed the switching capacity of the circuit breaker (Rated short-circuit breaking capacity lcn)         Rated current = rated uninterrupted current: 125 A         690 V - 690 V         690 V - 690 V         750 V DC         1000 V AC         6000 V         8000 V
Special featuresSpecial featuresFechnical Data - ElectricalVoltage ratingVoltage rating (DC)Rated insulation voltage (Uin)Rated impulse withstand voltage (Uimp) at auxiliary contactsRated impulse withstand voltage (Uimp) at main contactsRated short-time withstand current (t = 0.3 s)	Protection unit         Maximum back-up fuse, if the expected short-circuit currents at the installation location exceed the switching capacity of the circuit breaker (Rated short-circuit breaking capacity lcn)         Rated current = rated uninterrupted current: 125 A         690 V - 690 V         750 V DC         1000 V AC         6000 V         8000 V         1.9 kA
Special featuresSpecial featuresTechnical Data - ElectricalVoltage ratingVoltage rating (DC)Rated insulation voltage (Uin)Rated impulse withstand voltage (Uimp) at auxiliary contactsRated impulse withstand voltage (Uimp) at main contactsRated short-time withstand current (t = 0.3 s)Rated short-time withstand current (t = 1 s)	Protection unit         Maximum back-up fuse, if the expected short-circuit currents at the installation location exceed the switching capacity of the circuit breaker (Rated short-circuit breaking capacity lcn)         Rated current = rated uninterrupted current: 125 A         690 V - 690 V         690 V - 690 V         750 V DC         1000 V AC         6000 V         8000 V         1000 V AC         1010 V         110 KA         110 KA
Special featuresSpecial featuresFechnical Data - ElectricalVoltage ratingVoltage rating (DC)Rated insulation voltage (Uin)Rated impulse withstand voltage (Uimp) at auxiliary contactsRated impulse withstand voltage (Uimp) at main contactsRated short-time withstand current (t = 0.3 s)Rated short-time withstand current (t = 1 s)Instantaneous current setting (li) - min	Protection unitMaximum back-up fuse, if the expected short-circuit currents at the installation location exceed the switching capacity of the circuit breaker (Rated short-circuit breaking capacity lcn) Rated current = rated uninterrupted current: 125 A690 V - 690 V690 V - 690 V750 V DC1000 V AC6000 V8000 V1.9 kA1.9 kA750 A
Special featuresImage: constraint of the sector	Protection unitMaximum back-up fuse, if the expected short-circuit currents at the installation location exceed the switching capacity of the circuit breaker (Rated short-circuit breaking capacity lcn) Rated current = rated uninterrupted current: 125 A690 V - 690 V690 V - 690 V750 V DC1000 V AC6000 V6000 V8000 V1.9 kA1.9 kA750 A1250 A
Special featuresSpecial featuresFechnical Data - ElectricalVoltage ratingVoltage rating (DC)Rated insulation voltage (Uin)Rated impulse withstand voltage (Uimp) at auxiliary contactsRated impulse withstand voltage (Uimp) at main contactsRated short-time withstand current (t = 0.3 s)Rated short-time withstand current (t = 1 s)Instantaneous current setting (li) - minInstantaneous current setting (li) - maxOverload current setting (lr) - min	Protection unitMaximum back-up fuse, if the expected short-circuit currents at the installation location exceed the switching capacity of the circuit breaker (Rated short-circuit breaking capacity lon) Rated current = rated uninterrupted current: 125 A690 V - 690 V690 V - 690 V750 V DC1000 V AC6000 V6000 V8000 V1.9 kA1.9 kA1250 A100 A
Special featuresImage: special featuresSpecial featuresImage: special featuresTechnical Data - ElectricalImage: special featuresVoltage ratingImage: special featuresVoltage rating (DC)Image: special featuresRated insulation voltage (Uin)Image: special featuresRated impulse withstand voltage (Uimp) at auxiliary contactsImage: special featuresRated impulse withstand voltage (Uimp) at main contactsImage: special featuresRated short-time withstand current (t = 0.3 s)Image: special featuresRated short-time withstand current (t = 1 s)Image: special featuresInstantaneous current setting (li) - maxImage: special featuresOverload current setting (lr) - maxImage: special featuresOverload current setting (lr) - maxImage: special features	Protection unitMaximum back-up fuse, if the expected short-circuit currents at the installation location exceed the switching capacity of the circuit breaker (Rated short-circuit breaking capacity lon) Rated current = rated uninterrupted current: 125 A600690 V - 690 V750 V DC1000 V AC6000 V6000 V8000 V8000 V1.9 kA1.9 kA1.9 kA1250 A125 A125 A
Special featuresImage: special featuresSpecial featuresImage: special featuresTechnical Data - ElectricalImage: special featuresVoltage ratingImage: special featuresVoltage rating (DC)Image: special featuresRated insulation voltage (Uinp) at auxiliary contactsImage: special featuresRated impulse withstand voltage (Uimp) at main contactsImage: special featuresRated short-time withstand current (t = 0.3 s)Image: special featuresRated short-time withstand current (t = 1 s)Image: special featuresInstantaneous current setting (li) - minImage: special featuresOverload current setting (lir) - maxImage: special featuresOverload current setting (lr) - maxImage: special featuresShort delay current setting (lsd) - minImage: special features	Protection unitMaximum back-up fuse, if the expected short-circuit currents at the installation location exceed the switching capacity of the circuit breaker (Rated short-circuit breaking capacity lcn) Rated current = rated uninterrupted current: 125 A690 V - 690 V690 V - 690 V750 V DC1000 V AC6000 V6000 V8000 V10 A10 A125 A100 A125 A100
Special featuresSpecial featuresTechnical Data - ElectricalVoltage ratingVoltage rating (DC)Rated insulation voltage (Uin)Rated insulation voltage (Uinp) at auxiliary contactsRated impulse withstand voltage (Uimp) at main contactsRated short-time withstand current (t = 0.3 s)Rated short-time withstand current (t = 1 s)Instantaneous current setting (li) - minInstantaneous current setting (li) - maxOverload current setting (lr) - maxShort delay current setting (lsd) - minShort delay current setting (lsd) - max	Protection unit         Maximum back-up fuse, if the expected short-circuit currents at the installation location exceed the switching capacity of the circuit breaker (Rated short-circuit breaking capacity lcn) Rated current = rated uninterrupted current: 125 A         690 V - 690 V         690 V - 690 V         750 V DC         1000 V AC         6000 V         8000 V         1000 V AC         119 kA         1250 A         1250 A         100 A         125 A         0A         0A
Special featuresTechnical Data - ElectricalVoltage ratingVoltage rating (DC)Rated insulation voltage (Ui)Rated insulation voltage (Uimp) at auxiliary contactsRated impulse withstand voltage (Uimp) at main contactsRated short-time withstand current (t = 0.3 s)Rated short-time withstand current (t = 1 s)Instantaneous current setting (Ii) - minInstantaneous current setting (Ii) - maxOverload current setting (Ir) - maxShort delay current setting (Isd) - minShort delay current setting (Isd) - maxRated short-circuit breaking capacity Ics (IEC/EN 60947) at 230 V, 50/60 Hz	Protection unitMaximum back-up fuse, if the expected short-circuit currents at the installation location exceed the switching capacity of the circuit breaker (Rated short-circuit breaking capacity lon) Rated current = rated uninterrupted current: 125 A600600 V - 690 V750 V DC750 V DC6000 V6000 V6000 V6000 V750 A750 A750 A750 A750 A125 A750 A00 A750 A <td< td=""></td<>
Special featuresTechnical Data - ElectricalVoltage ratingVoltage rating (DC)Rated insulation voltage (Ui)Rated impulse withstand voltage (Uimp) at auxiliary contactsRated impulse withstand voltage (Uimp) at auxiliary contactsRated short-time withstand current (t = 0.3 s)Rated short-time withstand current (t = 1 s)Instantaneous current setting (Ii) - minInstantaneous current setting (Ii) - maxOverload current setting (Ir) - maxShort delay current setting (Isd) - maxRated short-circuit breaking capacity Ics (IEC/EN 60947) at 200 V, 50/60 HzRated short-circuit breaking capacity Ics (IEC/EN 60947) at 400/415 V, 50/60 Hz	Protection unit         Maximum back-up fuse, if the expected short-circuit currents at the installation location exceed the switching capacity of the circuit breaker (Rated short-circuit breaking capacity lcn) Rated current = rated uninterrupted current: 125 A         690 V - 690 V         690 V - 690 V         750 V DC         1000 V AC         6000 V         6000 V         8000 V         1000 V AC         6000 V         1000 V AC         1000 V         119 kA         1250 A         1250 A         100 A         1250 A         100 A         125 A         0A         125 A         125 A
Special featuresTechnical Data - ElectricalVoltage ratingVoltage rating (DC)Rated insulation voltage (Ui)Rated insulation voltage (Uimp) at auxiliary contactsRated impulse withstand voltage (Uimp) at auxiliary contactsRated short-time withstand current (t = 0.3 s)Rated short-time withstand current (t = 1 s)Instantaneous current setting (li) - maxOverload current setting (lr) - maxOverload current setting (lr) - maxShort delay current setting (lsd) - minShort delay current setting (lsd) - maxRated short-circuit breaking capacity Ics (IEC/EN 60947) at 230 V, 50/60 HzRated short-circuit breaking capacity Ics (IEC/EN 60947) at 440 V, 50/60 Hz	Protection unit         Maximum back-up fuse, if the expected short-circuit currents at the installation location exceed the switching capacity of the circuit breaker (Rated short-circuit breaking capacity lcn)         Rated current = rated uninterrupted current: 125 A         690 V - 690 V         600 V AC         6000 V         8000 V         1000 V AC         6000 V         100 V AC         100 V         119 kA         1250 A         100 A         1250 A         100 A         1250 A         100 A         125 A         0A         125 A         125 A         125 A         125 A         125 A         <
Special featuresSpecial featuresTechnical Data - ElectricalVoltage ratingVoltage rating (DC)Rated insulation voltage (Ui)Rated impulse withstand voltage (Uimp) at auxiliary contactsRated impulse withstand voltage (Uimp) at main contactsRated short-time withstand current (t = 0.3 s)Rated short-time withstand current (t = 1 s)Instantaneous current setting (li) - minInstantaneous current setting (li) - maxOverload current setting (lr) - maxShort delay current setting (lsd) - minShort delay current setting (lsd) - maxRated short-circuit breaking capacity Ics (IEC/EN 60947) at 230 V, 50/60 HzRated short-circuit breaking capacity Ics (IEC/EN 60947) at 440 V, 50/60 HzRated short-circuit breaking capacity Ics (IEC/EN 60947) at 440 V, 50/60 HzRated short-circuit breaking capacity Ics (IEC/EN 60947) at 525 V, 50/60 HzRated short-circuit breaking capacity Ics (IEC/EN 60947) at 525 V, 50/60 HzRated short-circuit breaking capacity Ics (IEC/EN 60947) at 525 V, 50/60 HzRated short-circuit breaking capacity Ics (IEC/EN 60947) at 525 V, 50/60 HzRated short-circuit breaking capacity Ics (IEC/EN 60947) at 525 V, 50/60 HzRated short-circuit breaking capacity Ics (IEC/EN 60947) at 525 V, 50/60 Hz	Protection unit         Maximum back-up fuse, if the expected short-circuit urrents at the installation location exceed the switching capacity of the circuit breaker (Rated short-circuit breaking capacity Icn)         Rated current = rated uninterrupted current: 125 A         690 V - 690 V         750 V DC         1000 V AC         6000 V         8000 V         1000 V AC         1000 V AC         1000 V         119 kA         1250 A         100 A         1250 A         100 A         125 A         0A         125 A         13 kA
Special featuresSpecial featuresFechnical Data - ElectricalVoltage ratingVoltage rating (DC)Rated insulation voltage (Ui)Rated insulation voltage (Uimp) at auxiliary contactsRated impulse withstand voltage (Uimp) at auxiliary contactsRated impulse withstand voltage (Uimp) at main contactsRated short-time withstand current (t = 0.3 s)Rated short-time withstand current (t = 1 s)Instantaneous current setting (li) - minInstantaneous current setting (li) - maxOverload current setting (lr) - maxShort delay current setting (lsd) - minShort delay current setting (lsd) - maxRated short-circuit breaking capacity Ics (IEC/EN 60947) at 230 V, 50/60 HzRated short-circuit breaking capacity Ics (IEC/EN 60947) at 400/415 V, 50/60 HzRated short-circuit breaking capacity Ics (IEC/EN 60947) at 525 V, 50/60 HzRated short-circuit breaking capacity Ics (IEC/EN 60947) at 690 V, 50/60 HzRated short-circuit breaking capacity Ics (IEC/EN 60947) at 525 V, 50/60 HzRated short-circuit breaking capacity Ics (IEC/EN 60947) at 525 V, 50/60 HzRated short-circuit breaking capacity Ics (IEC/EN 60947) at 690 V, 50/60 HzRated short-circuit breaking capacity Ics (IEC/EN 60947) at 690 V, 50/60 HzRated short-circuit breaking capacity Ics (IEC/EN 60947) at 690 V, 50/60 HzRated short-circuit breaking capacity Ics (IEC/EN 60947) at 690 V, 50/60 HzRated short-circuit breaking capacity Ics (IEC/EN 60947) at 690 V, 50/60 HzRated short-circuit breaking capacity Ics (IEC/EN 60947) at 690 V, 50/60 HzRated short-circuit breaking capacity Ics (IEC/EN	Protection unit         Maximum back-up fuse, if the expected short-circuit urrents at the installation location exceed the switching capacity of the circuit breaker (Rated short-circuit breaking capacity len)         Rated current = rated uninterrupted current: 125 A         690 V - 690 V         690 V - 690 V         750 V DC         1000 V AC         6000 V         8000 V         1000 V AC         6000 V         1000 V         100 A         1250 A         100 A         125 A         0A         125 A         0A         125 A         0A         125 A         126 A         127 A         128 A         129 A         120 A         120 A
Special featuresSpecial featuresTechnical Data - ElectricalVoltage ratingVoltage rating (DC)Rated insulation voltage (Ui)Rated insulation voltage (Uimp) at auxiliary contactsRated impulse withstand voltage (Uimp) at auxiliary contactsRated short-time withstand voltage (Uimp) at auxiliary contactsRated short-time withstand current (t = 0.3 s)Rated short-time withstand current (t = 1 s)Instantaneous current setting (li) - minInstantaneous current setting (li) - maxOverload current setting (lr) - maxShort delay current setting (lsd) - minShort delay current setting (lsd) - maxRated short-circuit breaking capacity Ics (IEC/EN 60947) at 230 V, 50/60 HzRated short-circuit breaking capacity Ics (IEC/EN 60947) at 400/415 V, 50/60 HzRated short-circuit breaking capacity Ics (IEC/EN 60947) at 690 V, 50/60 HzRated short-circuit breaking capacity Ics (IEC/EN 60947) at 50 V DC	Protection unit         Maximum back-up fuse, if the expected short-circuit currents at the installation location exceed the switching capacity of the circuit breaker (Rated short-circuit breaking capacity Icn)         Rated current = rated uninterrupted current: 125 A         690 V - 690 V         690 V - 690 V         1000 V AC         6000 V         8000 V         8000 V         19 kA         19 kA         125 0 A         125 0 A         125 A         00 A         125 A         100 A         125 A         100 A         125 A         13 kA         14 Diagonal         15 A         15 A         15 A         15 KA         5 kA

Rated short-circuit making capacity Icm at 440 V, 50/60 Hz	77 kA
Rated short-circuit making capacity Icm at 525 V, 50/60 Hz	55 kA
Rated short-circuit making capacity Icm at 690 V, 50/60 Hz	40 kA
Short-circuit total breaktime	< 10 ms
Electrical connection type of main circuit	Frame clamp
Isolation	300 V AC (between the auxiliary contacts) 500 V AC (between auxiliary contacts and main contacts)
Number of operations per hour - max	120
Handle type	Rocker lever
Utilization category	A (IEC/EN 60947-2)
Overvoltage category	III
Pollution degree	3
Lifespan, electrical	10000 operations at 400 V AC-1 6500 operations at 400 V AC-3 7500 operations at 690 V AC-1 6500 operations at 415 V AC-3 5000 operations at 690 V AC-3 10000 operations at 415 V AC-1
Direction of incoming supply	As required
Technical Data - Mechanical	
Mounting Method Degree of protection	Built-in device fixed built-in technique Fixed DIN rail (top hat rail) mounting optional
	IP20 (basic degree of protection, in the operating controls area)
Degree of protection (IP), front side	IP40 (with insulating surround) IP66 (with door coupling rotary handle)
Degree of protection (terminations)	IP10 (tunnel terminal) IP00 (terminations, phase isolator and strip terminal)
Protection against direct contact	Finger and back-of-hand proof to DIN EN 50274/VDE 0106 part 110
Shock resistance	20 g (half-sinusoidal shock 20 ms)
Number of auxiliary contacts (change-over contacts)	0
Number of auxiliary contacts (normally closed contacts)	0
Number of auxiliary contacts (normally open contacts)	0
Position of connection for main current circuit	Front side
Climatic proofing	Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30
Special features	Maximum back-up fuse, if the expected short-circuit currents at the installation location exceed the switching capacity of the circuit breaker (Rated short-circuit breaking capacity Icn) Rated current = rated uninterrupted current: 125 A
Lifespan, mechanical	20000 operations
Technical Data - Mechanical - Terminals	
Standard terminals	Box terminal
Optional terminals	Connection on rear. Screw terminal. Tunnel terminal
Terminal capacity (control cable)	0.75 mm² - 1.5 mm² (2x) 0.75 mm² - 2.5 mm² (1x)
Terminal capacity (aluminum solid conductor/cable)	16 mm² (1x) at tunnel terminal
Terminal capacity (aluminum stranded conductor/cable)	25 mm² - 185 mm² (1x) at tunnel terminal
Terminal capacity (copper busbar)	Max. 24 mm x 8 mm direct at switch rear-side connection M8 at rear-side screw connection Min. 16 mm x 5 mm direct at switch rear-side connection
Terminal capacity (copper solid conductor/cable)	10 mm <sup>2</sup> - 16 mm <sup>2</sup> (1x) at box terminal 6 mm <sup>2</sup> - 16 mm <sup>2</sup> (2x) at box terminal 6 mm <sup>2</sup> - 16 mm <sup>2</sup> (2x) direct at switch rear-side connection 10 mm <sup>2</sup> - 16 mm <sup>2</sup> (1x) direct at switch rear-side connection 16 mm <sup>2</sup> (1x) at tunnel terminal
Terminal capacity (copper stranded conductor/cable)	25 mm <sup>2</sup> - 185 mm <sup>2</sup> (1x) at 1-hole tunnel terminal 25 mm <sup>2</sup> - 70 mm <sup>2</sup> (2x) at box terminal 25 mm <sup>2</sup> - 70 mm <sup>2</sup> (2x) direct at switch rear-side connection 25 mm <sup>2</sup> - 185 mm <sup>2</sup> (1x) at box terminal 25 mm <sup>2</sup> - 185 mm <sup>2</sup> (1x) direct at switch rear-side connection
Terminal capacity (copper strip)	Min. 2 segements of 16 mm x 0.8 mm at rear-side connection (punched) Max. 8 segments of 24 mm x 1 mm (2x) at box terminal Min. 2 segments of 9 mm x 0.8 mm at box terminal Max. 10 segments of 16 mm x 0.8 mm at box terminal Max. 10 segments of 24 mm x 0.8 mm at rear-side connection (punched)

Design verification as per IEC/EN 61439 - technical data	
Rated operational current for specified heat dissipation (In)	125 A
Equipment heat dissipation, current-dependent	27.61 W
Ambient operating temperature - min	-25 °C
Ambient operating temperature - max	70 °C
Ambient storage temperature - min	40 °C
Ambient storage temperature - max	70 °C
Design verification as per IEC/EN 61439	
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 Resist. of insul. mat. to abnormal heat/fire by internal elect. 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.
10.9.2 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.
Additional information	
Functions	System and cable protection

## **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])

Atade voltage         V         890-690           Rated short-circuit breaking capacity lcu at 400 V, 50 Hz         KA         50           Overload release current setting         CA         00-125           Adjustment range short-term delayed short-circuit release         CA         0-0           Adjustment range undelayed short-circuit release         CA         50-1250           Power loss         CA         Sult-in device fixed built-in technique           Device construction         CA         Sult-in device fixed built-in technique           Integrated earth fault protection         CA         Sult-in device fixed built-in technique           Suitable for DIN rail (top hat rail) mounting         CA         Sultable for JIN rail (top hat rail) mounting optional         CA           Number of auxiliary contacts as normally closed contact         CA         Sultable for JIN rail (top hat rail) mounting optional         CA           Number of auxiliary contacts as normally closed contact         CA         Sultable for JIN rail (top hat rail) mounting optional         Sultable for JIN rail (top hat rail) mounting optional         Sultable for JIN rail (top hat rail) mounting optional         Sultable for JIN rail (top hat rail) mounting optional         Sultable for JIN rail (top hat rail) mounting optional         Sultable for JIN rail (top hat rail) mounting optional         Sultable for JIN rail (top hat rail) mounting optional         Sultable for JIN r			
Rated short-circuit breaking capacity lcu at 400 V, 50 Hz       kA       50         Dverload release current setting       AA       100 - 125         Adjustment range short-term delayed short-circuit release       AA       0 - 0         Adjustment range undelayed short-circuit release       AA       750 - 1250         Power loss       VW       27.6         Device construction       Multi-in device fixed built-in technique         Integrated earth fault protection of main circuit       Frame clamp         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       G       Q         Number of auxiliary contacts as change-over contact       Multi-in technique         Number of auxiliary contacts as change-over contact       Mo       G         Number of auxiliary contacts as change-over contact       Mo       Mo         Number of auxiliary contacts as change-over contact       Mo       Mo         Number of auxiliary contacts as change-over contact       Mo       Mo         Number of auxiliary contacts as change-over contact       Mo       Mo         Number of auxiliary contacts as change-over contact       Mo       Mo         Number of auxiliary contacts as change-over con	Rated permanent current lu	А	125
Overload release current setting       A       00 - 125         Adjustment range short-term delayed short-circuit release       A       0         Adjustment range undelayed short-circuit release       A       750 - 1250         Power loss       VW       27.6         Device construction       Built-in device fixed built-in technique         Integrated earth fault protection of main circuit       Forme clamp         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       Yes         Number of auxiliary contacts as change-over contact       Yes         Number of auxiliary contacts as change-over contact       Yes         Number of auxiliary contacts as change-over contact       Yes         Number of function       Yes         Number of auxiliary contacts as change-over contact       Yes         Number of function       Yes         Number of auxiliary contacts as change-over contact       Yes         Number of function       Yes         Number of auxiliary contacts as change-over contact       Yes         Number of function       Yes         Number of auxiliary contacts as change-over contact       Yes         Number of function	Rated voltage	V	690 - 690
Adjustment range short-eir melayed short-circuit release       A       0         Adjustment range undelayed short-circuit release       A       50         Power loss       VW       27.6         Device construction       Integrated earth fault protection       No         Type of electrical connection of main circuit       Image: Adjustment rail) mounting       No         DIN rail (top hat rail) mounting optional       Image: Adjustment rail) mounting optional       No         Number of auxiliary contacts as normally closed contact       Image: Adjustment rail) mounting optionat       Image: Adjustment rail)         Number of auxiliary contacts as change-over contact       Image: Adjustment rail)       Image: Adjustment rail)       Image: Adjustment rail)         Number of auxiliary contacts as change-over contact       Image: Adjustment rail)       Image: Adjustment rail)       Image: Adjustment rail)         Number of auxiliary contacts as change-over contact       Image: Adjustment rail)       Image: Adjustment rail)       Image: Adjustment rail)         Number of auxiliary contacts as change-over contact       Image: Adjustment rail)       Image: Adjustment rail)       Image: Adjustment rail)         Number of auxiliary contacts as change-over contact       Image: Adjustment rail)       Image: Adjustment rail)       Image: Adjustment rail)         Number of auxiliary contacts as change-over contact       Ima	Rated short-circuit breaking capacity Icu at 400 V, 50 Hz	kA	50
Adjustment range undelayed short-circuit release       A       50 - 1250         Power loss       W       7.6         Device construction       Built-in device fixed built-in technique         Integrated earth fault protection of main circuit       No         Suitable for DIN rail (top hat rail) mounting       Home Clamp         DIN rail (top hat rail) mounting optional       Yes         Number of auxiliary contacts as normally open contact       G         Number of auxiliary contacts as change-over contact       G         Number of auxiliary contacts as change-over contact       M         Number of auxiliary contacts as change-over contact       No         Number of auxiliary contacts as change-over contact       No         Number of auxiliary contacts as change-over contact       No         Number of auxiliary contacts as change-over contact<	Overload release current setting	А	100 - 125
Power loss V 27.6 Device construction Built-in device fixed built-in technique butegrated earth fault protection finain circuit 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 con	Adjustment range short-term delayed short-circuit release	А	0 - 0
Device construction Device	Adjustment range undelayed short-circuit release	А	750 - 1250
Integrated earth fault protection Main circuit And	Power loss	W	27.6
Type of electrical connection of main circuit       Frame clamp         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       Image: Contact contact         Number of auxiliary contacts as change-over contact       Image: Contact contact         Number of auxiliary contacts as change-over contact       Image: Contact contact         Number of auxiliary contacts as change-over contact       Image: Contact contact         Number of auxiliary contacts as change-over contact       Image: Contact contact         Number of auxiliary contacts as change-over contact       Image: Contact contact         Number of auxiliary contacts as change-over contact       Image: Contact contact         Number of auxiliary contacts as change-over contact       Image: Contact contact contact         Number of auxiliary contacts as change-over contact       Image: Contact contact contact contact         Number of auxiliary contacts as change-over contact       Image: Contact	Device construction		Built-in device fixed built-in technique
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	Integrated earth fault protection		No
DIN rail (top hat rail) mounting optional Yes Number of auxiliary contacts as normally closed contact 0 0 Number of auxiliary contacts as normally open contact 0 0 Number of auxiliary contacts as change-over contact 0 0 Number of auxiliary contacts as change-over contact 0 0 Number of auxiliary contacts as change-over contact 0 0	Type of electrical connection of main circuit		Frame clamp
Number of auxiliary contacts as normally closed contact     0       Number of auxiliary contacts as normally open contact     0       Number of auxiliary contacts as normally open contact     0       Number of auxiliary contacts as normally open contact     0       Number of auxiliary contacts as normally open contact     0       Number of auxiliary contacts as change-over contact     0       Number of auxiliary contacts as change-over contact     0       Number of auxiliary contacts as change-over contact     0	Suitable for DIN rail (top hat rail) mounting		No
Number of auxiliary contacts as normally open contact     0       Number of auxiliary contacts as change-over contact     0       With switched-off indicator     0	DIN rail (top hat rail) mounting optional		Yes
Number of auxiliary contacts as change-over contact     0       With switched-off indicator     0	Number of auxiliary contacts as normally closed contact		0
With switched-off indicator No	Number of auxiliary contacts as normally open contact		0
	Number of auxiliary contacts as change-over contact		0
With integrated under voltage release No	With switched-off indicator		No
	With integrated 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	Yes
Motor drive integrated	No
Motor drive optional	Yes
Degree of protection (IP)	IP20