Circuit-breaker, 3p, 63A



Powering Business Worldwide™

Part no. NZMC1-M63 271400

General specifications	
Product name	Eaton Moeller series NZM molded case circuit breaker thermo-magnetic
Part no.	NZMC1-M63
EAN	4015082714000
Product Length/Depth	88 millimetre
Product height	145 millimetre
Product width	90 millimetre
Product weight	1.046 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	NZM1
Number of poles	Three-pole
Amperage Rating	63 A
Release system	Thermomagnetic release
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 lcn) Rated current = rated uninterrupted current: 63 A Terminal capacity hint: Up to 95 mm² can be connected depending on the cable manufacturer. With phase-failure sensitivity Tripping class 10 A IEC/EN 60947-4-1, IEC/EN 60947-2 The circuit-breaker fulfills all requirements for AC-3 switching category.
Fitted with:	Thermal protection
Technical Data - Electrical	
Voltage rating	690 V - 690 V
Rated insulation voltage (Ui)	690 V
Rated impulse withstand voltage (Uimp) at auxiliary contacts	6000 V
Rated impulse withstand voltage (Uimp) at main contacts	6000 V
Rated operational current	55 A (400 V AC-3)
Instantaneous current setting (Ii) - min	504 A
Instantaneous current setting (li) - max	882 A
Overload current setting (Ir) - min	50 A
Overload current setting (Ir) - max	63 A
Short-circuit release non-delayed setting - min	504 A
Short-circuit release non-delayed setting - max	882 A
Rated short-circuit breaking capacity Ics (IEC/EN 60947) at 230 V, 50/60 Hz	55 kA
Rated short-circuit breaking capacity Ics (IEC/EN 60947) at 400/415 V, 50/60 Hz	22.5 kA
Rated short-circuit breaking capacity Ics (IEC/EN 60947) at 440 V, 50/60 Hz	22.5 kA
Rated short-circuit breaking capacity Ics (IEC/EN 60947) at 525 V, 50/60 Hz	6 kA
Rated short-circuit breaking capacity Ics (IEC/EN 60947) at 690 V, 50/60 Hz	4 kA
Rated short-circuit making capacity Icm at 240 V, 50/60 Hz	121 kA
Rated short-circuit making capacity Icm at 400/415 V, 50/60 Hz	76 kA
Rated short-circuit making capacity Icm at 440 V, 50/60 Hz	63 kA

Detect about significant line and significant FOF V FO/CO II-	241.4
Rated short-circuit making capacity Icm at 525 V, 50/60 Hz	24 kA
Rated short-circuit making capacity Icm at 690 V, 50/60 Hz	14 kA
Rated operating power at AC-3, 230 V	18.5 kW
Rated operating power at AC-3, 400 V	30 kW
Short-circuit total breaktime	< 10 ms
Electrical connection type of main circuit	Other
Isolation	500 V AC (between auxiliary contacts and main contacts) 300 V AC (between the auxiliary 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 5000 operations at 690 V AC-1 7500 operations at 415 V AC-1
Direction of incoming supply	As required
Technical Data - Mechanical	
Mounting Method	Fixed Built-in device fixed built-in technique
Degree of protection	IP20 IP20 (basic degree of protection, in the operating controls area)
Degree of protection (IP), front side	IP66 (with door coupling rotary handle) IP40 (with insulating surround)
Degree of protection (terminations)	IP00 (terminations, phase isolator and strip terminal) IP10 (tunnel terminal)
Protection against direct contact	Finger and back-of-hand proof to VDE 0106 part 100
Shock resistance	20 g (half-sinusoidal shock 20 ms)
Switch off technique	Thermomagnetic
Climatic proofing	Damp heat, cyclic, to IEC 60068-2-30 Damp heat, constant, to IEC 60068-2-78
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: 63 A Terminal capacity hint: Up to 95 mm² can be connected depending on the cable manufacturer. With phase-failure sensitivity Tripping class 10 A IEC/EN 60947-4-1, IEC/EN 60947-2 The circuit-breaker fulfills all requirements for AC-3 switching category.
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 mm ² - 2.5 mm ² (1x) 0.75 mm ² - 1.5 mm ² (2x)
Terminal capacity (aluminum solid conductor/cable)	10 mm² - 16 mm² (1x) direct at switch rear-side connection 10 mm² - 16 mm² (2x) direct at switch rear-side connection 16 mm² (1x) at tunnel terminal
Terminal capacity (aluminum stranded conductor/cable)	25 mm 2 - 35 mm 2 (2x) direct at switch rear-side connection 25 mm 2 - 35 mm 2 (1x) direct at switch rear-side connection 25 mm 2 - 95 mm 2 (1x) at tunnel terminal
Terminal capacity (copper busbar)	M6 at rear-side screw connection Min. 12 mm \times 5 mm direct at switch rear-side connection Max. 16 mm \times 5 mm direct at switch rear-side connection
Terminal capacity (copper solid conductor/cable)	$6~mm^2$ - $16~mm^2$ (2x) at box terminal $10~mm^2$ - $16~mm^2$ (1x) direct at switch rear-side connection $10~mm^2$ - $16~mm^2$ (1x) at box terminal $6~mm^2$ - $16~mm^2$ (2x) direct at switch rear-side connection $16~mm^2$ (1x) at tunnel terminal
Terminal capacity (copper stranded conductor/cable)	6 mm² - 25 mm² (2x) at box terminal 10 mm² - 70 mm² (1x) direct at switch rear-side connection 10 mm² - 70 mm² (1x) at box terminal 25 mm² (2x) direct at switch rear-side connection 25 mm² - 95 mm² (1x) at 1-hole tunnel terminal
Terminal capacity (copper strip)	Max. 9 segments of 9 mm x 0.8 mm at box terminal Min. 2 segments of 9 mm x 0.8 mm at box terminal

provide heat dissipation data for the devices. 10.11 Short-circuit rating Is the panel builder's responsibility. The specifications for the switchgear mus observed. 10.12 Electromagnetic compatibility Is the panel builder's responsibility. The specifications for the switchgear mus observed.	Design verification as per IEC/EN 61439 - technical data	
Ambient operating temperature - min Ambient operating temperature - max Ambient storage temperature - max 70 °C Ambient storage temperature - max 70 °C Design verification as per IEC/EN 61439 10.22 Corrosion resistance 10.2.3.1 Verification of thermal stability of enclosures Meets the product standard's requirements. Does not apply, since the entire switchgear needs to be evaluated. Meets the product standard's requirements. Does not apply, since the entire switchgear needs to be evaluated. Meets the product standard's requirements. Does not apply, since the entire switchgear needs to be evaluated. Meets the product standard's requirements. Does not apply, since the entire switchgear needs to be evaluated. Meets the product standard's requirements. Does not apply, since the entire switchgear needs to be evaluated. Meets the product standard's requirements. Does not apply, since the entire switchgear needs to be evaluated. Meets the product standard's requirements. Does not apply, since the entire switchgear needs to be evaluated. In Internal electrical circuits and connections Is the panel builder's responsibility. Is the panel builder's responsibility. In the panel builder's responsibility. In the panel builder's responsibility. The	Rated operational current for specified heat dissipation (In)	63 A
Ambient operating temperature - max Ambient storage temperature - min Ambient storage temperature - max 70 °C Design verification as per IEC/EN 61439 10.22 Corrosion resistance 10.23.1 Verification of thermal stability of enclosures 10.23.1 Verification of thermal stability of enclosures 10.23.2 Verification of resistance of insulating materials to normal heat 10.23.3 Resist. of insul, mat to abnormal heat/fire by internal elect. effects 10.24.4 Resistance to ultra-violat (UV) radiation 10.25.1 kirling 10.26 Meets the product standard's requirements. 10.27.2 hiscordinary in the entire switchgear needs to be evaluated. 10.28 Mechanical impact 10.29 Does not apply, since the entire switchgear needs to be evaluated. 10.4 Clearances and creepage distances 10.5 Protection against electric shock 10.6 Incorporation of switching devices and components 10.7 Internal electrical circuits and connections 10.8 Connections for external conductors 10.9 Power-frequency electric strength 10.9 Treasmost made of insulating material 10.10 Temperature rise 10.11 Short-circuit rating 10.12 Electromagnetic competibility 10.12 Electromagnetic competibility 10.13 Mechanical function Additional information	Equipment heat dissipation, current-dependent	14.88 W
Ambient storage temperature - min Ambient storage temperature - max Design verification as per IEC/EN 61439 10.2.2 Corrosion resistance 10.2.3.1 Verification of thermal stability of enclosures 10.2.3.2 Verification of resistance of insulating materials to normal heat 10.2.3.3 Resist. of insul. mat. to abnormal heatfire by internal elect. effects 10.2.4 Resistance to ultra-violet (UV) radiation 10.2.5 Lifting 10.2.5 Lifting 10.2.5 Lifting 10.2.5 Lifting 10.2.5 Inscriptions 10.2.5 Inscriptions 10.3.1 Degree of protection of assemblies 10.3.2 Inscriptions 10.3.4 Resistance to ultra-violet (UV) radiation 10.4 Clearances and creepage distances 10.5 Protection against electric shock 10.6 Incorporation of switching devices and components 10.5 Protection against electric shock 10.6 Incorporation of switching devices and components 10.7 Internal electrical circuits and connections 10.8 Connections for external conductors 10.8 Connections for external conductors 10.9 Power-frequency electric strength 10.9.2 Power-frequency electric strength 10.9.3 Impulse withstand voltage 10.9.1 Temperature rise 10.9.3 Impulse withstand voltage 10.10 Temperature rise 10.11 Short-circuit rating 10.12 Electromagnetic compatibility 10.13 Mechanical function 10.14 Electromagnetic compatibility 10.15 Review means the requirements, provided the information in the instruction leaflet (IL) is observed. Additional information	Ambient operating temperature - min	-25 °C
Ambient storage temperature - max Design verification as per IEC/EN 61439 10.22 Corrosion resistance 10.23.1 Verification of thermal stability of enclosures 10.23.2 Verification of resistance of insulating materials to normal heat 10.23.3 Resist of insul. mat to abnormal heat/fire by internal elect. effects 10.24.8 Resistance to ultra-violet (UV) radiation 10.25 Lifting 10.25 Mechanical impact 10.25 Inscriptions 10.26 Mechanical impact 10.27 Inscriptions 10.30 Begree of protection of assemblies 10.30 Pegree of protection of assemblies 10.40 Learances and creepage distances 10.50 Protection against electric shock 10.50 Fortection against electric shock 10.50 Fortection disvincting devices and components 10.7 Internal electrical circuits and connections 10.30 Power-frequency electric strength 10.41 Easting of enclosures made of insulating material 10.52 Power-frequency electric strength 10.53 Interparature rise 10.54 Testing of enclosures made of insulating material 10.10 Temperature rise 10.11 Short-circuit rating 10.12 Electromagnetic competibility 10.13 Mechanical function Additional information	Ambient operating temperature - max	70 °C
Design verification as per IEC/EN 61439 10.2.2 Corrosion resistance 10.2.3.1 Verification of thermal stability of enclosures 10.2.3.2 Verification of resistance of insulating materials to normal heat 10.2.3.3 Resist. of insul. mat. to abnormal heat/fire by internal elect. effects 10.2.4 Resistance to ultra-violet (IV) radiation 10.2.5 Lifting 10.2.5 Lifting 10.2.5 Lifting 10.2.5 Inscriptions 10.2.1 Inscriptions 10.2.2 Machanical impact 10.2.3 Inscriptions 10.3 Degree of protection of assemblies 10.4 Clearances and creepage distances 10.4 Clearances and creepage distances 10.5 Lifting 10.6 Incorporation of switching devices and components 10.7 Internal electrical circuits and connections 10.8 Connections for external conductors 10.8 Connections for external conductors 10.9 Power-frequency electric strength 10.9.1 Insulation of external conductors 10.9.2 Power-frequency electric strength 10.9.3 Impulse withstand voltage 10.9.1 Testing of enclosures made of insulating material 10.10 Temperature rise 10.10 Temperature rise 10.11 Short-circuit rating 10.12 Electromagnetic compatibility 10.15 The panel builder's responsibility. 10.16 Incorporation of switching devices and confidence in the panel builder's responsibility. 10.10 Temperature rise 10.11 The panel builder's responsibility. 10.12 Electromagnetic compatibility 10.15 The panel builder's responsibility. 10.16 The panel builder's responsibility. 10.17 Internal electric strength 10.18 The panel builder's responsibility. 10.19 The panel builder's responsibility. 10.10 Temperature rise 10.11 Short-circuit rating 10.12 Electromagnetic compatibility 10.13 Mechanical function 10.14 Mechanical function 10.15 The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.	Ambient storage temperature - min	40 °C
10.2.2 Corrosion resistance 10.2.3 I Verification of thermal stability of enclosures 10.2.3 I Verification of thermal stability of enclosures 10.2.3 Resist. of insul. mat. to abnormal heat/fire by internal elect. effects 10.2.4 Resistance to ultra-violet (UV) radiation 10.2.5 Lifting 10.2.6 Mechanical impact 10.2.6 Lifting 10.2.6 Mechanical impact 10.2.7 Inscriptions 10.3 Degree of protection of assemblies 10.4 Clearances and creepage distances 10.4 Clearances and creepage distances 10.5 Protection against electric shock 10.6 Incorporation of switching devices and components 10.7 Internal electrical circuits and connections 10.7 Internal electrical circuits and connections 10.9 Power-frequency electric strength 10.9.3 Power-frequency electric strength 10.9.4 Testing of enclosures made of insulating material 10.10 Temperature rise 10.11 Short-circuit rating 10.12 Electromagnetic compatibility 10.13 Mechanical function Additional information	Ambient storage temperature - max	70 °C
10.2.3.1 Verification of thermal stability of enclosures 10.2.3.2 Verification of resistance of insulating materials to normal heat 10.2.3.3 Resist. of insul. mat. to abnormal heat/fire by internal elect. effects 10.2.4 Resistance to ultra-violet (UV) radiation 10.2.5 Lifting 10.2.5 Lifting 10.2.6 Mechanical impact 10.2.7 Interpritions 10.3 Degree of protection of assemblies 10.4 Clearances and creepage distances 10.4 Clearances and creepage distances 10.5 Protection against electric shock 10.6 Incorporation of switching devices and components 10.7 Internal electrical circuits and connections 10.9.2 Power-frequency electric strength 10.9.3 Impulse withstand voltage 10.9.4 Testing of enclosures made of insulating material 10.10 Temperature rise 10.11 Short-circuit rating 10.12 Electromagnetic compatibility 10.13 Mechanical function Additional information	Design verification as per IEC/EN 61439	
10.2.3 2 Verification of resistance of insulating materials to normal heat 10.2.3 Resist. of insul. mat. to abnormal heat/fire by internal elect. effects 10.2.4 Resistance to ultra-violet (UV) radiation 10.2.5 Lifting 10.2.6 Mechanical impact 10.2.7 Inscriptions 10.3 Degree of protection of assemblies 10.4 Clearances and creepage distances 10.5 Protection against electric shock 10.5 Protection against electric shock 10.6 Incorporation of switching devices and components 10.7 Internal electrical circuits and connections 10.8 Connections for external conductors 10.9 Power-frequency electric strength 10.9.1 Desmortander of responsibility. 10.9.2 Power-frequency electric strength 10.9.4 Testing of enclosures made of insulating material 10.10 Temperature rise 10.11 Short-circuit rating 10.12 Electromagnetic compatibility 10.13 Mechanical function Additional information	10.2.2 Corrosion resistance	Meets the product standard's requirements.
10.2.3.3 Resist. of insul. mat. to abnormal heat/fire by internal elect. effects 10.2.4 Resistance to ultra-violet (UV) radiation 10.2.5 Lifting 10.2.6 Mechanical impact 10.2.7 Inscriptions 10.3 Degree of protection of assemblies 10.4 Clearances and creepage distances 10.5 Protection against electric shock 10.5 Protection against electric shock 10.6 Incorporation of switching devices and components 10.7 Internal electrical circuits and connections 10.7 Internal electrical circuits and connections 10.8 Connections for external conductors 10.9 Power-frequency electric strength 10.9.3 Impulse withstand voltage 10.9.4 Testing of enclosures made of insulating material 10.10 Temperature rise 10.11 Short-circuit rating 10.12 Electromagnetic compatibility 10.13 Mechanical function Additional information	10.2.3.1 Verification of thermal stability of enclosures	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. 10.2.7 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. 10.9.2 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's responsibility. The specifications for the switchgear mus observed. 10.11 Short-circuit rating Is the panel builder's responsibility. The specifications for the switchgear mus observed. Additional information Additional information	10.2.3.2 Verification of resistance of insulating materials to normal heat	Meets the product standard's requirements.
10.2.5 Lifting 10.2.6 Mechanical impact 10.2.6 Mechanical impact 10.2.7 Inscriptions 10.3 Degree of protection of assemblies 10.4 Clearances and creepage distances 10.5 Protection against electric shock 10.6 Incorporation of switching devices and components 10.7 Internal electrical circuits and connections 10.8 Connections for external conductors 10.9 Power-frequency electric strength 10.9.1 Testing of enclosures made of insulating material 10.10 Temperature rise 10.11 Short-circuit rating 10.12 Electromagnetic compatibility 10.13 Mechanical function Additional information	10.2.3.3 Resist. of insul. mat. to abnormal heat/fire by internal elect. effects	Meets the product standard's requirements.
10.26 Mechanical impact 10.27 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 responsibility. 10.11 Short-circuit rating Is the panel builder's responsibility. The specifications for the switchgear mus observed. 10.12 Electromagnetic compatibility The specifications for the switchgear mus observed. Additional information Additional information	10.2.4 Resistance to ultra-violet (UV) radiation	Meets the product standard's requirements.
10.27 Inscriptions 10.3 Degree of protection of assemblies 10.4 Clearances and creepage distances 10.5 Protection against electric shock 10.6 Incorporation of switching devices and components 10.7 Internal electrical circuits and connections 10.8 Connections for external conductors 10.9.2 Power-frequency electric strength 10.9.3 Impulse withstand voltage 10.9.4 Testing of enclosures made of insulating material 10.10 Temperature rise 10.11 Short-circuit rating 10.12 Electromagnetic compatibility 10.13 Mechanical function Additional information	10.2.5 Lifting	Does not apply, since the entire switchgear needs to be evaluated.
10.3 Degree of protection of assemblies 10.4 Clearances and creepage distances Meets the product standard's requirements. 10.5 Protection against electric shock 10.6 Incorporation of switching devices and components 10.7 Internal electrical circuits and connections 10.8 Connections for external conductors 10.9.2 Power-frequency electric strength 10.9.3 Impulse withstand voltage 10.9.4 Testing of enclosures made of insulating material 10.10 Temperature rise 10.11 Short-circuit rating 10.12 Electromagnetic compatibility 10.13 Mechanical function Additional information	10.2.6 Mechanical impact	Does not apply, since the entire switchgear needs to be evaluated.
10.4 Clearances and creepage distances 10.5 Protection against electric shock 10.6 Incorporation of switching devices and components 10.7 Internal electrical circuits and connections 10.8 Connections for external conductors 10.9.2 Power-frequency electric strength 10.9.3 Impulse withstand voltage 10.9.4 Testing of enclosures made of insulating material 10.10 Temperature rise 10.11 Short-circuit rating 10.12 Electromagnetic compatibility 10.13 Mechanical function Additional information	10.2.7 Inscriptions	Meets the product standard's requirements.
10.5 Protection against electric shock 10.6 Incorporation of switching devices and components 10.7 Internal electrical circuits and connections 10.8 Connections for external conductors 10.9.2 Power-frequency electric strength 10.9.3 Impulse withstand voltage 10.9.4 Testing of enclosures made of insulating material 10.10 Temperature rise 10.11 Short-circuit rating 10.12 Electromagnetic compatibility 10.13 Mechanical function 10.13 Mechanical function Additional information	10.3 Degree of protection of assemblies	Does not apply, since the entire switchgear needs to be evaluated.
Does not apply, since the entire switchgear needs to be evaluated. 10.7 Internal electrical circuits and connections 10.8 Connections for external conductors 10.9 Power-frequency electric strength 10.9.1 Testing of enclosures made of insulating material 10.10 Temperature rise 10.11 Short-circuit rating 10.12 Electromagnetic compatibility 10.13 Mechanical function Does not apply, since the entire switchgear needs to be evaluated. Is the panel builder's responsibility. Is the panel builder's responsibility. Is the panel builder's responsibility. The panel builder is responsibility. The panel builder is responsibility. Is the panel builder is responsibility. Is the panel builder's responsibility. The panel builder's responsibility. The specifications for the switchgear mus observed. Is the panel builder's responsibility. The specifications for the switchgear mus observed. Additional information	10.4 Clearances and creepage distances	Meets the product standard's requirements.
10.7 Internal electrical circuits and connections 10.8 Connections for external conductors 10.9.2 Power-frequency electric strength 10.9.3 Impulse withstand voltage 10.9.4 Testing of enclosures made of insulating material 10.10 Temperature rise 10.11 Short-circuit rating 10.12 Electromagnetic compatibility 10.13 Mechanical function 10.13 Mechanical information Is the panel builder's responsibility. Is the panel builder's responsibility. The specifications for the switchgear must observed. Is the panel builder's responsibility. The specifications for the switchgear must observed. Additional information	10.5 Protection against electric shock	Does not apply, since the entire switchgear needs to be evaluated.
10.8 Connections for external conductors 10.9.2 Power-frequency electric strength 10.9.3 Impulse withstand voltage 10.9.4 Testing of enclosures made of insulating material 10.10 Temperature rise 10.11 Short-circuit rating 10.12 Electromagnetic compatibility 10.13 Mechanical function Additional information Is the panel builder's responsibility. Is the panel builder's responsibility. Is the panel builder is responsibility. The panel builder is responsibility or the temperature rise calculation. Eaton will provide heat dissipation data for the devices. Is the panel builder's responsibility. The specifications for the switchgear must observed. Is the panel builder's responsibility. The specifications for the switchgear must observed. The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.	10.6 Incorporation of switching devices and components	Does not apply, since the entire switchgear needs to be evaluated.
10.9.2 Power-frequency electric strength 10.9.3 Impulse withstand voltage 10.9.4 Testing of enclosures made of insulating material 10.10 Temperature rise 10.11 Short-circuit rating 10.12 Electromagnetic compatibility 10.13 Mechanical function 10.13 Mechanical information 1 Is the panel builder's responsibility. 1 Is the panel builder is responsibility for the temperature rise calculation. Eaton will provide heat dissipation data for the devices. 1 Is the panel builder's responsibility. The specifications for the switchgear mus observed. 1 Is the panel builder's responsibility. The specifications for the switchgear mus observed. 1 Is the panel builder's responsibility. The specifications for the switchgear mus observed. 1 Is the panel builder's responsibility. The specifications for the switchgear mus observed. 1 Is the panel builder's responsibility. The specifications for the switchgear mus observed. 1 Is the panel builder's responsibility. The specifications for the switchgear mus observed. 1 Is the panel builder's responsibility. The specifications for the switchgear mus observed. 1 Is the panel builder's responsibility. The specifications for the switchgear mus observed. 1 Is the panel builder's responsibility. The specifications for the switchgear mus observed.	10.7 Internal electrical circuits and connections	Is the panel builder's responsibility.
10.9.3 Impulse withstand voltage 10.9.4 Testing of enclosures made of insulating material 10.10 Temperature rise 10.11 Short-circuit rating 10.12 Electromagnetic compatibility 10.13 Mechanical function Additional information Is the panel builder's responsibility. Is the panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices. Is the panel builder's responsibility. The specifications for the switchgear must observed. Is the panel builder's responsibility. The specifications for the switchgear must observed. The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.	10.8 Connections for external conductors	Is the panel builder's responsibility.
10.9.4 Testing of enclosures made of insulating material 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 10.12 Electromagnetic compatibility Is the panel builder's responsibility. The specifications for the switchgear must observed. 10.13 Mechanical function The device meets the requirements, provided the information in the instruction leaflet (IL) is observed. Additional information	10.9.2 Power-frequency electric strength	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 mus observed. 10.12 Electromagnetic compatibility Is the panel builder's responsibility. The specifications for the switchgear mus observed. 10.13 Mechanical function The device meets the requirements, provided the information in the instruction leaflet (IL) is observed. Additional information	10.9.3 Impulse withstand voltage	Is the panel builder's responsibility.
provide heat dissipation data for the devices. 10.11 Short-circuit rating 10.12 Electromagnetic compatibility 10.13 Mechanical function Additional information provide heat dissipation data for the devices. Is the panel builder's responsibility. The specifications for the switchgear must observed. The device meets the requirements, provided the information in the instruction leaflet (IL) is observed. Additional information	10.9.4 Testing of enclosures made of insulating material	Is the panel builder's responsibility.
observed. 10.12 Electromagnetic compatibility 10.13 Mechanical function The device meets the requirements, provided the information in the instruction leaflet (IL) is observed. Additional information	10.10 Temperature rise	The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices.
observed. 10.13 Mechanical function The device meets the requirements, provided the information in the instruction leaflet (IL) is observed. Additional information	10.11 Short-circuit rating	Is the panel builder's responsibility. The specifications for the switch gear must be observed. $\label{eq:constraint}$
Additional information leaflet (IL) is observed.	10.12 Electromagnetic compatibility	Is the panel builder's responsibility. The specifications for the switch gear must be observed. $\label{eq:constraint}$
	10.13 Mechanical function	The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.
Functions Phase failure sensitive	Additional information	
Motor protection	Functions	

Technical data ETIM 9.0

Low-voltage industrial components (EG000017) / Motor protection circuit-breaker (EC000074)

Electric engineering, automation, process control engineering / Low-voltage switch technology / Circuit breaker (LV < 1 kV) / Motor protection circuit-breaker (ecl@ss13-27-37-04-01 [AGZ529021])

[AGZ529021])	3,7	
Overload release current setting	Α	50 - 63
Adjustment range undelayed short-circuit release	Α	504 - 882
With thermal overload protection		Yes
Phase failure sensitive		Yes
Switch off technique		Thermomagnetic
Rated operating voltage	V	690 - 690
Rated permanent current lu	Α	63
Rated operation power at AC-3, 230 V	kW	18.5
Rated operation power at AC-3, 400 V	kW	30
Power loss	W	14.9
Type of electrical connection of main circuit		Other
Type of control element		Rocker lever
Device construction		Built-in device fixed built-in technique
With integrated auxiliary switch		No
With integrated under voltage release		No
Number of poles		3

Rated short-circuit breaking capacity Icu at 400 V, AC	kA	22.5
Degree of protection (IP)		IP20
Height	mm	145
Width	mm	90
Depth	mm	88