DATASHEET - NZMH4-VE800

Circuit-breaker, 3p, 800A



Part no. NZMH4-VE800 265774 EL Number 4358942 (Norway)

General specifications

Product nameEaton Meeller series NZM molded case circuit breaker electronicPart no.NZMH4-VE800EAN4015082657741Product Length/Depth4015082657741Product Length/Depth401 millimetreProduct width207 millimetreProduct wight200 millimetreProduct wight15.52 kilogramCompliancesRelS conformCertificationsRelS conformProduct TradenameNZMProduct Sub TypeElectronicDelivery programKerterApplicationKerterTypeKerterCircuit breaker frame typeNZM4Number of polesNZM4Amperage Rating600 AFeatures600 AFeaturesMotor drive optionalProduct spreadMotor drive optionalPeaturesMotor drive optional	
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Number of poles Image: Constraint of pole Amperage Rating Image: Constraint of pole Release system Image: Constraint of pole Features Image: Constraint of pole	
Amperage Rating 800 A Release system Electronic release Features Motor drive optional	
Release system Electronic release Features Motor drive optional	
Features Motor drive optional	
Special features Maximum back-up fuse, if the expected short-circuit currents at the ins location exceed the switching capacity of the circuit breaker (Rated sh circuit breaking capacity Icn) R.m.s. value measurement and "thermal r Adjustable time delay setting to overcome current peaks tr at 6 x Ir also (without overload releases) Adjustable delay time tsd i ² t constant function switchable Rated current = rated uninterrupted current: 800 A	iort- memory" o infinity
Technical Data - Electrical	
Voltage rating 690 V - 690 V	
Rated insulation voltage (Ui) 1000 V AC	
Rated impulse withstand voltage (Uimp) at auxiliary contacts 6000 V	
Rated impulse withstand voltage (Uimp) at main contacts 8000 V	
Rated short-time withstand current (t = 0.3 s) 19.2 kA	
Rated short-time withstand current (t = 1 s) 19.2 kA	
Instantaneous current setting (li) - min 1600 A	
Instantaneous current setting (li) - max 9600 A	
Overload current setting (Ir) - min 400 A	
Overload current setting (Ir) - max 800 A	
Short delay current setting (Isd) - min 800 A	
Short delay current setting (Isd) - max 8000 A	
Short-circuit release delayed setting - min 800 A	
Short-circuit release delayed setting - max 8000 A	
Short-circuit release non-delayed setting - min 1600 A	
Short-circuit release non-delayed setting - max 9600 A	
Rated short-circuit breaking capacity Ics (IEC/EN 60947) at 230 V, 50/60 Hz 63 kA	
Rated short-circuit breaking capacity Ics (IEC/EN 60947) at 400/415 V, 50/60 Hz	
Rated short-circuit breaking capacity Ics (IEC/EN 60947) at 440 V, 50/60 Hz 50 kA	
Rated short-circuit breaking capacity Ics (IEC/EN 60947) at 525 V, 50/60 Hz 50 kA	

Image: Section of the switching capacity of the circuit breaker (Rated shor circuit breaking capacity (cn] R.m.s. value measurement and "thermal me Adjustable time delay setting to overcome current peaks r at 6 k. It also in (without overload releases) Adjustable delay time tod it constant function switchable Rated current = rated uninterrupted current: 800 ALifespan, mechanicalImage: Constant function switchable Rated current = rated uninterrupted current: 800 ATechnical Data - Mechanical - TerminalsImage: Constant function switchable Rated current = rated uninterrupted current: 800 AStandard terminalsConnection on rear. Strip terminal. Tunnel terminalOptional terminalsConnection on rear. Strip terminal. Tunnel terminalTerminal capacity (control cable)70 mm² - 15 mm² (2x) at rear-side 1-hole module plate 70 mm² - 15 mm² (2x) at rear-side 1-hole module plate 70 mm² (2x) at rear-side 1-hole module plate 240 mm² (2x) at rear-side 2-hole module plate 240 mm² (2x) at rear-side 1-hole module plate 240 mm² (2x) at rear-side 2-hole module plate 240 mm² (2x) at rear-side 1-hole module plate 240 mm² (2x) at rear-side 2-hole module plate 240 mm² (2x) at rear-side 2-hole module plateTerminal capacity (aluminum stranded conductor/cable)Image: Conductor conductor conductor/cableTerminal capacity (copper busbar)Image: Conductor conductor conductor conductor conductor/cable)		
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Pated short-circuit making capacity (an at 460 V. 5008 fbr. 150 LA Rade discription making capacity (an at 250 V. 5008 fbr. 150 LA Start discription making capacity (an at 250 V. 5008 fbr. 150 LA Start discription making capacity (an at 250 V. 5008 fbr. 150 LA Start discription making capacity (an at 250 V. 5008 fbr. 150 LA Start discription making capacity (an at 250 V. 5008 fbr. 150 LA Description making capacity (an at 250 V. 5008 fbr. 250 mcl. 64 150 VJ. 25 ms. 54 150 VJ Rade discription making capacity (an at 250 V. 5008 fbr. 250 mcl. 64 150 VJ. 25 ms. 54 150 VJ Description reaction spin floor - max 90 110 LA Holds top 91 BLC Howeven the scaling v contacts) 90 VAC 1 Obmenting cargory 110 LA 110 LA Palacion degree 3 110 LA Description in at 50 V AC 1 2000 separations at 60 V AC 1 2000 separations at 60 V AC 1 2000 separations at 60 V AC 1 2000 separations at 60 V AC 1 2000 separations at 60 V AC 1 2000 separations at 60 V AC 1 2000 separations at 60 V AC 1 2000 separations at 60 V AC 1 2000 separations at 60 V AC 1 2000 separations at 60 V AC 1 2000 separations at 60 V AC 1 2000 separations at 60 V AC 1 2000 separations at 60 V AC 1 2000 separations at 60 V AC 1	Rated short-circuit making capacity Icm at 240 V, 50/60 Hz	275 kA
Rated short-circuit making capacity for at 520 V 3008 ftz 153 LA Rated short-circuit making capacity for at 500 V 5000 ftz 150 LA Electrical connection type of main circuit 500 V AC Derives at filts VUX - 50 ms (> 4.5 V) Electrical connection type of main circuit 500 V AC Derives at filts VUX - 50 ms (> 4.5 V) Handle sype 60 Withration category 60 Ultration category 60 Difference 510 CFD Modesh - 21 Di	Rated short-circuit making capacity Icm at 400/415 V, 50/60 Hz	187 kA
Rate durit-circle making tapach (am at 600 V, 5000 Hz 100 MA Stret circle risk train branktine 257 ms (415 V) < 25 ms (5-415 V)	Rated short-circuit making capacity Icm at 440 V, 50/60 Hz	187 kA
State-circuit total treatme <25 ms (± H5 V), <25 ms (> H5 V) Electical connection ope of main circuit Scree connection Mathem 00 Number of operators per heur - max 00 Handle type 00 Utilization category 00 Ownowlass category 00 Pollutin degree 0 Utilization category 00 Ownowlass category 00 Diversity of the state o	Rated short-circuit making capacity Icm at 525 V, 50/60 Hz	143 kA
Bestrial construction type of main circuit Scrow connection Restrial construction is part hour - max 300 VA (Detwom notices of main contacts) Number of operations per hour - max 60 Handie type 60 Handie type 60 Build and contacts of main contacts) 60 Parkton degree 60 Build and contacts of main contacts) 60 Parkton degree 60 Build and contacts of main contacts) 60 Parkton degree 60 Build and contacts of main contacts) 60 Parkton degree 60 Build degree 60 Deprection of flocaming scopt/v 60 Prection of flocaming scopt/v 60 Degree of protection, if the operating controls area) 700 Degree of protection, if the operating controls area) 700 Degree of protection, if the operating controls area) 700 Degree of protection, if the operating controls area) 700 Degree of protection, if the operating controls area) 700 Degree of protection, if the operating controls area) 700 Degree of protection (PF), front side 700	Rated short-circuit making capacity Icm at 690 V, 50/60 Hz	100 kA
Isolation 337 V.4 (Distorted in adving vorticity and main contexts) Number of operations per hour - max 60 Honde type Bocker fiver Utilization category 80 (ECEN 6004-2) Ownorbing citrogry 100 Pollution degree 30 Liftspan, electrical 300 (PA 5) between hanking vorticity and main contexts) Director of incoming supply 100 Technical Data - Mechanical 300 (PA 5) between hanking vorticity and hank contexts) Mounting Method 100 (PA 5) between hanking vorticity and hank contexts) Director of incoming supply 100 (PA 5) between hanking vorticity and hank contexts) Mounting Method 100 (PA 5) between hanking vorticity and hank contexts) Director of incoming supply 100 (PA 5) between hanking vorticity and hanking	Short-circuit total breaktime	< 25 ms (≦ 415 V); < 35 ms (> 415 V)
Number of pertaining per hour-max 60 Handle type 60 Utilization category 80 / ECE/N 600/-20 Utilization category 10 Ouroritage category 10 Dilation degree 3 Lifespan, electrical 2000 operations at 800 / AC-1 Solid operations at 800 / AC-1 3000 operations at 800 / AC-1 Direction of incerning supply 2000 operations at 800 / AC-1 Direction of incerning supply As required Technical Data - Mechanical Participation at 800 / AC-1 Direction of incerning supply As required Technical Data - Mechanical Participation at 800 / AC-1 Direction of incerning supply As required Technical Data - Mechanical Participation at 800 / AC-1 Direction of incerning supply As required Direction of incerning supply As required Direction of incerning supply Participation at 800 / AC-1 Direction in Phy front side Participation at 800 / AC-1 Direction in perminal at 90 / Phy front side Participation at 800 / AC-1 Direction in perminal (phy front side perminal at 90 / Phy (pint inst	Electrical connection type of main circuit	Screw connection
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Handle type Rocker lever Ublizion category B (ECEN 9361-2) Overvoltage category III Pollation dargory III Pollation dargory III Dispace category S Lifespan, electrical 2000 operations at 600 V AC-1 2000 operations at 600 V AC-3 Direction of incoming supply Control of VAC-3 Direction of incoming supply Control of VAC-3 Direction of incoming supply Degree of protection, in the operating control of VAC-3 Degree of protection (IP), front side Sulf-in device fixed huil-in technique Fixed Degree of protection (IP), front side Sulf-in device fixed huil-in technique Fixed Pogree of protection (IP), front side Sulf-in device fixed huil-in technique Fixed Pogree of protection (IP), front side Sulf-in device fixed huil-in technique Fixed Pogree of protection (IP), front side Sulf-in device fixed huil-in technique Fixed Pogree of protection (IP), front side Sulf-in device fixed huil-in technique Fixed Pogree of protection (IP), front side Sulf-in device fixed huil-in technique Fixed Pogree of protection (IP), front side Sulf-in device fixed huil-in technique Fixed Pogree of protection (IP), front side Sulf-in device fixed huil-in technique Fixed Pogree of protection (IP), front side Sulf-in device fixed huil-in technique Fixed <td></td> <td></td>		
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Technical Data - Mechanical Built in device fixed built in technique Fixed Mounting Method JP20 Degree of protection JP20 (basic degree of protection, in the operating controls area) Degree of protection (IP), front side JP20 (basic degree of protection, in the operating controls area) Degree of protection (IP), front side JP20 (basic degree of protection, in the operating controls area) Protection against direct contact JP20 (treminations, 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 15 g (half-sinusoidal shock 11 ms) Number of auxiliary contacts (hange-over contacts) 0 Number of auxiliary contacts (normally closed contacts) 0 Position of connection for main current circuit Damp bact, contact, to LEC 60068-278 Dimatic proofing Damp bact, contact, to LEC 60068-278 Urfespan, mechanical Terminals Urfespan, mechanical Screev terminal Terminal capacity (clotrol cable) 0.35 mm² - 25 mm² (1x) Optional terminals Screev terminal Optional terminals Connection or near. Strip terminal to the module plate Terminal capacity (aluminum solid conductor/cable) 70	Lifespan, electrical	3000 operations at 400 V AC-1 3000 operations at 415 V AC-1 2000 operations at 415 V AC-3 1000 operations at 690 V AC-3
Mounting Method Built-in device fixed built-in technique Degree of protection IP20 Degree of protection (IP), front side IP20 (vibit logic degree of protection, in the operating controls area) Degree of protection (terminations) IP40 (vibit door coupling rotary handle) Protection against direct contact IP40 (vibit door coupling rotary handle) Shock resistance IP40 (terminations, phase isolator and strip terminal) Number of auxiliary contacts (change-over contacts) Ip40 (terminations, phase isolator and strip terminal) Number of auxiliary contacts (normally closed contacts) 0 Number of auxiliary contacts (normally closed contacts) 0 Number of auxiliary contacts (normally closed contacts) 0 Number of auxiliary contacts (normally copen contacts) 0 Number of auxiliary contacts (normally copen contacts) 0 Special features 0 Special features 0 Lifespan, mechanical 10000 operations Lifespan, mechanical 10000 operations Standard terminals 0 Optional terminals Screw terminal Optional terminal capacity (aluminum solid conductor/cable) 10000 operations Terminal capacity (aluminu	Direction of incoming supply	As required
Dagree of protection Field Dagree of protection (IP), front side IP20 (basic degree of protection, in the operating controls area) Degree of protection (IP), front side IP26 (with door coupling rotary handle) Degree of protection (terminations) IP20 (basic degree of protection, in the operating controls area) Protection against direct contact IP20 (basic degree of protection, in the operating controls area) Protection against direct contact IP20 (basic degree of protection, in the operating controls area) Number of auxiliary contacts (change-over contacts) IP20 (basic degree of protection for an in current circuit Number of auxiliary contacts (normally open contacts) 0 Number of auxiliary contacts (normally open contacts) 0 Position of connection for main current circuit IP20 (basic degree of protection) area (basic degree of protection) area (basic degree of protection) area (basic degree of protection) Special features IP20 (basic degree of protection) 0 Utespan, mechanical IP20 (basic degree of protection) IP20 (basic degree of protection) Terminal capacity (control cable) IP20 (basic degree of protection) IP20 (basic degree of protection) Itel span, mechanical IP20 (basic degree of protection) IP20 (basic degree of protection) IP20 (basic degree of protection) <td>Technical Data - Mechanical</td> <td></td>	Technical Data - Mechanical	
Degree of protection (IP), front side IP20 (basic degree of protection, in the operating controls area) Degree of protection (IP), front side IP26 (vith door coupling rotary handla) Degree of protection (terminations) IP26 (vith door coupling rotary handla) Protection against direct contact IP26 (vith door coupling rotary handla) Shock resistance IP26 (vith door coupling rotary handla) Number of auxiliary contacts (change-over contacts) 0 Number of auxiliary contacts (normally cosed contacts) 0 Position of connection for main current circuit IP26 (vith door constant, to IEC 60089-2-78 Damp heat, constant, to IEC 60089-2-78 Damp heat, constant, to IEC 60089-2-78 Damp heat, cyclic, to IEC 60089-2-78 Damp heat, constant, to IEC 60089-2-78 Special features Maximum back-up fuse, if the expected short-circuit currents at the instat cocation exored the avicing capacity (IP1 Rm. s-value measurement and runner thread in the aday sating to overcome current peaks trat 5 x it also in the dolay sating to overcome current peaks trat 5 x it also in the dolay sating to overcome current peaks trat 5 x it also in the dolay sating to overcome current peaks trat 6 x it also in the dolay sating to overcome current peaks trat 6 x it also in the dolay sating to overcome current tractant function switchable Raed current = rated uninterrupted current 800 A Lifespan, mechanical IPE function on rear. Strip terminal Optional termin	Mounting Method	
Percention decision PP66 (with door couping rotary handle) Percention against direct contact PP10 (terminations,) hese isolator and strip terminal) Protection against direct contact PP10 (terminations, hese isolator and strip terminal) Shock resistance 15 g (half-sinusoidal shock 11 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 0 Climatic proofing Damp heat, contant, to IEC 6008-2-30 Special features Maximum back-up fuse, if the expected short-circuit currents at the insta focation exceed the switching capacity (of the circuit breaw(Rade short) focation exceed the switching capacity (of the circuit breaw(Rade short) focation exceed the switching capacity (of the circuit breaw(Rade short) focation exceed the switching capacity (of the circuit breaw(Rade short) focation exceed the switching capacity (of the circuit breaw(Rade short) focation exceed the switching capacity (of the circuit breaw(Rade short) focation exceed the switching capacity (of the circuit breaw(Rade short) focation exceed the set ad (urrent = rated uninterrupted current = switch = hole module plate interving expective) for the circuit breaw(Rade short) focation exceed the switching capacity (of the circuit breaw(Rade short) focation exceed the switching capacity (of the circuit breaw(Rade short) focation exceed the switching capacity (of the circuit breaw(Rade short) focation exceed the switchin	Degree of protection	
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Shock resistance 15 g (half-sinusoidal shock 11 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 0 Climatic proofing Damp heat, constant, to IEC 60068-2-78 Damp heat, constant, to IEC 60068-2-78 Damp heat, constant, to IEC 60068-2-78 Special features Damp heat, constant, to IEC 60068-2-78 Lifespan, mechanical Maximum back-up fuse, if the expected short-circuit currents at the instatil location exceed the switching capacity of the circuit breaking capacity of the circuit breaking capacity of the circuit treaker (Rated Standard terminals Optional terminals Connection on rear. Strip terminal. Turnel terminal Terminal capacity (control cable) 70 mm² - 185 mm² (2x) Terminal capacity (aluminum solid conductor/cable) 70 mm² - 240 mm² (1x) at rear-side 1-hole module plate Terminal capacity (control cable) 70 mm² - 240 mm² (2x) at rear-side 1-hole module plate Terminal capacity (aluminum stranded conductor/cable) 50 mm² - 240 mm² (2x) at rear-side 1-hole module plate Terminal capacity (control cable) 50 mm² - 240 mm² (2x) at rear-side 1-hole module plate Terminal capacity (control cable) 50 mm² - 240 mm² (2x) at rear-side 1-hole modul	Degree of protection (terminations)	
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 0 Climatic proofing Damp heat, constant, to IEC 60068-2-78 Special features Damp heat, cyclic, to IEC 60068-2-30 Maximum back-up fuse, if the expected short-circuit currents at the insta location exceed the switching capacity of the circuit breaker (Rated short circuit breaker (Rated short circuit breaker (Rated short et al. and and thermal and Adjustabile (context) constant function switchable Rated current = rated uninterrupted current & at 0 × 1 also in the visual status of the constant function switchable Rated current = rated uninterrupted current & 00 A Lifespan, mechanical Technical Data - Mechanical - Terminals Standard terminals Connection on rear. Strip terminal. Tunnel terminal Optional terminals Connection on rear. Strip terminal. Tunnel terminal Terminal capacity (aluminum solid conductor/cable) 70 mm² - 18 mm² (2x) at rear-side 1-hole module plate 2/40 mm² (2x) at rear-side vidth extension 38 mm² - 240 mm² (1x) at rear-side vidth extension 39 mm² - 240 mm² (1x) at rear-side vidth extension 50 mm² (2x) at rear-side vidth extension 50	Protection against direct contact	Finger and back-of-hand proof to DIN EN 50274/VDE 0106 part 110
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 Special features Maximum back-up fuse, if the expected short-circuit currents at the instal location exceed the switching capacity of the circuit breaksr (Rated short circuit treaking capacity (In Rm. Availue measurement and "thermal me Adjustable time delay setting to overcome current peaks tr at 5 kr l slo in (Without overload relases) Adjustable delay time task 1 ch contant function switchable Rated current = rated uninterrupted current: 800 A Lifespan, mechanical 10000 operations Technical Data - Mechanical - Terminals Screw terminal Optional terminals Connection on rear. Strip terminal. Tunnel terminal Optional terminals 0.75 mm² - 2.5 mm² (1x) 0.75 mm² - 1.5 mm² (2x) Terminal capacity (aluminum solid conductor/cable) 70 mm² - 18 mm² (2x) at rear-side 1-hole module plate Terminal capacity (aluminum stranded conductor/cable) 50 mm² - 240 mm² (4x) at rear-side 1-hole module plate Terminal capacity (aluminum stranded conductor/cable) 50 mm² - 240 mm² (2x) at rear-side 1-hole module plate Terminal capacity (aluminum stranded conductor/cable) 50 mm² - 240 mm² (2x) at rear-side 1-hole module plate	Shock resistance	15 g (half-sinusoidal shock 11 ms)
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 Special features Maximum back- up fuse, if the expected short-circuit currents at the instant location exceed the switching capacity of the circuit breaker (Rated short) Special features Maximum back- up fuse, if the expected short-circuit currents at the instant location exceed the switching capacity of the circuit breaker (Rated short) Lifespan, mechanical 10000 operations Technical Data - Mechanical - Terminals 00000 operations Standard terminals Screw terminal Optional terminals Connection on rear. Strip terminal. Tunnel terminal Optional terminal capacity (control cable) 70 mm² - 25 mm² (1x) Terminal capacity (aluminum solid conductor/cable) 70 mm² - 240 mm² (2x) at rear-side 1-hole module plate Terminal capacity (aluminum stranded conductor/cable) 50 mm² - 240 mm² (1x) at rear-side 1-hole module plate Terminal capacity (copper busbar) 50 mm² - 240 mm² (2x) at rear-side 1-hole module plate	Number of auxiliary contacts (change-over contacts)	0
Position of connection for main current circuit Front side Climatic proofing Damp heat, constant, to IEC 60068-2-78 Special features Maximum back-up fuse, if the expected short-circuit currents at the instation exceed the switching capacity of the circuit breaker (Rated short-circuit breaker) and "thermal me Adjustable time delay setting to overcome current peaks tr at 6 x lr also in (without overload releases) Adjustable delay time tsd 't' constant functions witchable Rated current = rated uninterrupted current 800 A Lifespan, mechanical 10000 operations Technical Data - Mechanical - Terminals Screw terminal Optional terminals Connection on rear. Strip terminal. Tunnel terminal Optional conductor/cable) 0.75 mm ² - 2.5 mm ² (1x) Terminal capacity (aluminum solid conductor/cable) 70 mm ² - 240 mm ² (6x) at rear-side 1-hole module plate Terminal capacity (aluminum stranded conductor/cable) 50 mm ² - 240 mm ² (6x) at rear-side 1-hole module plate Terminal capacity (copper busbar) Max. 50 mm x 10 mm (2x) at rear-side 1-hole module plate	Number of auxiliary contacts (normally closed contacts)	0
Climatic proofing Damp heat, constant, to IEC 60068-2-78 Special features Maximum back-up fuse, if the expected short-circuit currents at the instal location exceed the switching capacity (pol Rm. s. value measurement and "thermal me Adjustable time delay setting to overcome current peaks tr at 6 x I r also in (without overload releases) Adjustable delay time tsd ¹ c constant function switchable Rated current = rated uninterrupted current 800 A Lifespan, mechanical 10000 operations Technical Data - Mechanical - Terminals 00000 operations Standard terminals Connection on rear. Strip terminal. Tunnel terminal Optional terminals Connection on rear. Strip terminal. Tunnel terminal Terminal capacity (control cable) 0.75 mm ² - 15 mm ² (2x) Terminal capacity (aluminum solid conductor/cable) 70 mm ² - 240 mm ² (5x) at rear-side 1-hole module plate Terminal capacity (columinum stranded conductor/cable) 50 mm ² - 240 mm ² (4x) at rear-side 1-hole module plate Terminal capacity (coper busbar) Max. 50 mm x 10 mm (2x) at rear-side 1-hole module plate	Number of auxiliary contacts (normally open contacts)	0
Control cableDamp heat, cyclic, to IEC 60068-2-30Special featuresMaximum back-up fuse, if the expected short-circuit currents at the insta location exceed the switching capacity (the circuit breaker (Rated short- circuit breaking capacity (lon) R.m.s. value measurement and "thermal me Adjustable time delay setting to overcome current peaks tr at 6 k in also in (without overload releases) Adjustable delay time tod 'ft constant function switchable Rated current = rated uninterrupted current 200 ALifespan, mechanical10000 operationsTechnical Data - Mechanical - Terminals10000 operationsStandard terminalsConnection on rear. Strip terminal. Tunnel terminalOptional terminalsConnection on rear. Strip terminal. Tunnel terminalTerminal capacity (control cable)70 mm² - 125 mm² (1x) 0.75 mm² - 15 mm² (2x) at rear-side 1-hole module plate 70 mm² - 240 mm² (4x) at rear-side 2-hole module plateTerminal capacity (aluminum stranded conductor/cable)50 mm² - 240 mm² (4x) at rear-side 1-hole module plate 240 mm² (4x) at rear-side 1-hole module plateTerminal capacity (copper busbar)50 mm² - 240 mm² (4x) at rear-side 1-hole module plate	Position of connection for main current circuit	Front side
Image: Section of the switching capacity of the circuit breaker (Rated shor circuit breaking capacity (cn] R.m.s. value measurement and "thermal me Adjustable time delay setting to overcome current peaks r at 6 k. It also in (without overload releases) Adjustable delay time tod it constant function switchable Rated current = rated uninterrupted current: 800 ALifespan, mechanicalImage: Constant function switchable Rated current = rated uninterrupted current: 800 ATechnical Data - Mechanical - TerminalsImage: Constant function switchable Rated current = rated uninterrupted current: 800 AStandard terminalsConnection on rear. Strip terminal. Tunnel terminalOptional terminalsConnection on rear. Strip terminal. Tunnel terminalTerminal capacity (control cable)70 mm² - 15 mm² (2x) at rear-side 1-hole module plate 70 mm² - 15 mm² (2x) at rear-side 1-hole module plate 70 mm² (2x) at rear-side 1-hole module plate 240 mm² (2x) at rear-side 2-hole module plate 240 mm² (2x) at rear-side 1-hole module plate 240 mm² (2x) at rear-side 2-hole module plate 240 mm² (2x) at rear-side 1-hole module plate 240 mm² (2x) at rear-side 2-hole module plate 240 mm² (2x) at rear-side 2-hole module plateTerminal capacity (aluminum stranded conductor/cable)Image: Conductor conductor conductor/cableTerminal capacity (copper busbar)Image: Conductor conductor conductor conductor conductor/cable)	Climatic proofing	
Technical Data - Mechanical - Terminals Standard terminals Standard terminals Screw terminal Optional terminals Connection on rear. Strip terminal. Tunnel terminal Terminal capacity (control cable) 0.75 mm² - 2.5 mm² (1x) 0.75 mm² - 1.5 mm² (2x) Terminal capacity (aluminum solid conductor/cable) 70 mm² - 185 mm² (2x) at rear-side 1-hole module plate 70 mm² - 240 mm² (6x) at rear-side vidth extension 185 mm² - 240 mm² (1x) at rear-side 1-hole module plate 240 mm² (2x) at rear-side width extension 50 mm² (4x) at rear-side 2-hole module plate Terminal capacity (aluminum stranded conductor/cable) 50 mm² - 240 mm² (4x) at rear-side 1-hole module plate Terminal capacity (copper busbar) Max. 50 mm x 10 mm (2x) at rear-side 1-hole module plate	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) R.m.s. value measurement and "thermal memory" Adjustable time delay setting to overcome current peaks tr at 6 x Ir also infinity (without overload releases) Adjustable delay time tsd i ² t constant function: switchable Rated current = rated uninterrupted current: 800 A
Standard terminals Screw terminal Optional terminals Connection on rear. Strip terminal. Tunnel terminal Terminal capacity (control cable) 0.75 mm² - 2.5 mm² (1x) 0.75 mm² - 1.5 mm² (2x) Terminal capacity (aluminum solid conductor/cable) 70 mm² - 185 mm² (2x) at rear-side 1-hole module plate 70 mm² - 240 mm² (6x) at rear-side width extension 185 mm² - 240 mm² (1x) at rear-side vidth extension 185 mm² - 240 mm² (1x) at rear-side 2-hole module plate 240 mm² (2x) at rear-side 2-hole module plate 50 mm² (4x) at rear-side 2-hole module plate Terminal capacity (aluminum stranded conductor/cable) Max. 50 mm x 10 mm (2x) at rear-side 1-hole module plate	Lifespan, mechanical	10000 operations
Optional terminals Connection on rear. Strip terminal. Tunnel terminal Terminal capacity (control cable) 0.75 mm² - 2.5 mm² (1x) 0.75 mm² - 1.5 mm² (2x) Terminal capacity (aluminum solid conductor/cable) 70 mm² - 185 mm² (2x) at rear-side 1-hole module plate 70 mm² - 240 mm² (1x) at rear-side width extension 185 mm² - 240 mm² (1x) at rear-side 1-hole module plate 240 mm² (2x) at rear-side vidth extension 50 mm² (4x) at rear-side 2-hole module plate Terminal capacity (aluminum stranded conductor/cable) 50 mm² - 240 mm² (4x) at 4-hole tunnel terminal Terminal capacity (copper busbar) Max. 50 mm x 10 mm (2x) at rear-side 1-hole module plate	Technical Data - Mechanical - Terminals	
Terminal capacity (control cable) 0.75 mm² - 2.5 mm² (1x) Terminal capacity (aluminum solid conductor/cable) 0.75 mm² - 1.5 mm² (2x) Terminal capacity (aluminum solid conductor/cable) 70 mm² - 185 mm² (2x) at rear-side inductor with extension 185 mm² - 240 mm² (1x) at rear-side inductor extension 185 mm² - 240 mm² (1x) at rear-side inductor extension 50 mm² (2x) at rear-side vidth extension 50 mm² (2x) at rear-side 2-hole module plate 240 mm² (2x) at rear-side 2-hole module plate 50 mm² (2x) at rear-side 2-hole module plate Terminal capacity (aluminum stranded conductor/cable) 50 mm² - 240 mm² (4x) at 4-hole tunnel terminal Terminal capacity (copper busbar) Max. 50 mm x 10 mm (2x) at rear-side 1-hole module plate	Standard terminals	Screw terminal
Terminal capacity (aluminum solid conductor/cable) 0.75 mm² - 1.5 mm² (2x) Terminal capacity (aluminum solid conductor/cable) 70 mm² - 185 mm² (2x) at rear-side 1-hole module plate 70 mm² - 240 mm² (6x) at rear-side width extension 185 mm² - 240 mm² (1x) at rear-side 1-hole module plate 240 mm² (2x) at rear-side vidth extension 50 mm² (4x) at rear-side 2-hole module plate Terminal capacity (aluminum stranded conductor/cable) 50 mm² - 240 mm² (4x) at 4-hole tunnel terminal Terminal capacity (copper busbar) Max. 50 mm x 10 mm (2x) at rear-side 1-hole module plate	Optional terminals	Connection on rear. Strip terminal. Tunnel terminal
Terminal capacity (aluminum stranded conductor/cable) 70 mm² - 240 mm² (6x) at rear-side width extension 185 mm² - 240 mm² (1x) at rear-side 1-hole module plate 240 mm² (2x) at rear-side 2-hole module plate Terminal capacity (aluminum stranded conductor/cable) 50 mm² - 240 mm² (4x) at 4-hole tunnel terminal Terminal capacity (copper busbar) Max. 50 mm x 10 mm (2x) at rear-side 1-hole module plate	Terminal capacity (control cable)	
Terminal capacity (copper busbar) Max. 50 mm x 10 mm (2x) at rear-side 1-hole module plate	Terminal capacity (aluminum solid conductor/cable)	70 mm² - 240 mm² (6x) at rear-side width extension 185 mm² - 240 mm² (1x) at rear-side 1-hole module plate 240 mm² (2x) at rear-side width extension
	Terminal capacity (aluminum stranded conductor/cable)	50 mm ² - 240 mm ² (4x) at 4-hole tunnel terminal
Mill a freaf-side Screw Connection Min. 25 mm x 5 mm direct at switch rear-side connection Max. 80 mm x 10 mm (2x) at rear-side 2-hole module plate Min. 25 mm x 5 mm at rear-side 2-hole module plate Min. 25 mm x 5 mm at rear-side 1-hole module plate Min. 60 mm x 10 mm at rear-side width extension Max. 50 mm x 10 mm (2x) direct at switch rear-side connection	Terminal capacity (copper busbar)	M10 at rear-side screw connection Min. 25 mm x 5 mm direct at switch rear-side connection Max. 80 mm x 10 mm (2x) at rear-side width extension 50 mm x 10 mm (2x) at rear-side 2-hole module plate Min. 25 mm x 5 mm at rear-side 1-hole module plate Min. 60 mm x 10 mm at rear-side width extension
Terminal capacity (copper solid conductor/cable) 50 mm² - 240 mm² (4x) at 4-hole tunnel terminal 120 mm² - 300 mm² (1x) at rear-side 1-hole module plate 95 mm² - 300 mm² (2x) at rear-side 1-hole module plate	Terminal capacity (copper solid conductor/cable)	120 mm ² - 300 mm ² (1x) at rear-side 1-hole module plate

	95 mm ² - 240 mm ² (6x) at rear-side width extension 95 mm ² - 185 mm ² (2x) at rear-side 2-hole module plate 300 mm ² (4x) at rear-side width extension 35 mm ² - 185 mm ² (4x) at rear-side 2-hole module plate
Terminal capacity (copper stranded conductor/cable)	120 mm ² - 185 mm ² (1x) direct at switch rear-side connection 50 mm ² - 185 mm ² (4x) direct at switch rear-side connection
Terminal capacity (copper strip)	Min. 5 segments of 25 mm x 1 mm at rear-side connection (punched) 10 segments of 50 mm x 1 mm (2x) at 1-hole module plate Min. 6 segments of 16 mm x 0.8 mm at flat conductor terminal 10 segments of 80 mm x 1 mm (2x) at rear-side width extension Max. 10 segments of 50 mm x 1 mm (2x) at rear-side connection (punched) Max. 10 segments of 32 mm x 1 mm (2x) at flat conductor terminal
Design verification as per IEC/EN 61439 - technical data	
Rated operational current for specified heat dissipation (In)	800 A
Equipment heat dissipation, current-dependent	79 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	Systems, cable, selectivity and generator 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])

Rated permanent current lu	А	800
Rated voltage	V	690 - 690
Rated short-circuit breaking capacity Icu at 400 V, 50 Hz	kA	50
Overload release current setting	А	400 - 800
Adjustment range short-term delayed short-circuit release	А	800 - 8000
Adjustment range undelayed short-circuit release	А	1600 - 9600
Power loss	W	
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	No
DIN rail (top hat rail) mounting optional	No
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 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