Specifications



Photo is representative

Eaton 265786

Eaton Moeller series NZM - Molded Case Circuit Breaker. Circuit-breaker, 3p, 90A, H2-ME90

General specifications	
PRODUCT NAME	Eaton Moeller series NZM molded case circuit breaker electronic
CATALOG NUMBER	265786
MODEL CODE	NZMH2-ME90
EAN	4015082657864
PRODUCT LENGTH/DEPTH	149 mm
PRODUCT HEIGHT	184 mm
PRODUCT WIDTH	105 mm
PRODUCT WEIGHT	2.438 kg
COMPLIANCES	RoHS conform
CERTIFICATIONS	IEC IEC/EN 60947



Product specifications	
AMPERAGE RATING	90 A
VOLTAGE RATING	690 V - 690 V
CIRCUIT BREAKER FRAME TYPE	NZM2
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.
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.

Resources	
BROCHURES	eaton-feerum-the-whole-grain-solution-success-story-en-us.pdf eaton-digital-nzm-brochure-br013003en-en-us.pdf
CATALOGUES	eaton-digital-nzm-catalog- ca013003en-en-us.pdf
CHARACTERISTIC CURVE	eaton-circuit-breaker-let- through-current-nzm- mccb-characteristic-curve- 005.eps
	eaton-circuit-breaker- characteristic-power- defense-mccb- characteristic-curve- 037.eps
	eaton-circuit-breaker-nzm- mccb-characteristic-curve- 053.eps
DECLARATIONS OF CONFORMITY	eaton-molded-case-circuit- breaker-declaration-of- conformity- eu250291en.pdf
	eaton-circuit-breaker-nzm- mccb-dimensions-019.eps
DRAWINGS	eaton-circuit-breaker- switch-nzm-mccb- dimensions-017.eps
	eaton-general-ie-ready- dilm-contactor- standards.eps
ECAD MODEL	ETN.265786.edz
INSTALLATION INSTRUCTIONS	eaton-circuit-breakers- basic-device-nzm2- il01206006z.pdf
INSTALLATION VIDEOS	Introduction of the new digital circuit breaker NZM The new digital NZM
	Range
MCAD MODEL	DA-CD-nzm2_3p DA-CS-nzm2_3p
PEP ECO-PASSPORT	eaton-molded-case- switches-pep-eato-00195- v0101-en.pdf

	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	ls the panel builder's responsibility.
10.8 CONNECTIONS FOR EXTERNAL CONDUCTORS	ls the panel builder's responsibility.
10.9.2 POWER- FREQUENCY ELECTRIC STRENGTH	ls the panel builder's responsibility.
10.9.3 IMPULSE WITHSTAND VOLTAGE	ls the panel builder's responsibility.
10.9.4 TESTING OF ENCLOSURES MADE OF INSULATING MATERIAL	ls the panel builder's responsibility.
FITTED WITH:	Thermal protection
	· · · · · · · · · · · · · · · · · · ·
POLLUTION DEGREE	3
POLLUTION DEGREE MOUNTING METHOD	
	Built-in device fixed built-in technique
MOUNTING METHOD	Built-in device fixed built- in technique Fixed Damp heat, cyclic, to IEC 60068-2-30 Damp heat, constant, to
MOUNTING METHOD CLIMATIC PROOFING EQUIPMENT HEAT DISSIPATION, CURRENT-	Built-in device fixed built-in technique Fixed Damp heat, cyclic, to IEC 60068-2-30 Damp heat, constant, to IEC 60068-2-78
MOUNTING METHOD CLIMATIC PROOFING EQUIPMENT HEAT DISSIPATION, CURRENT- DEPENDENT	Built-in device fixed built-in technique Fixed Damp heat, cyclic, to IEC 60068-2-30 Damp heat, constant, to IEC 60068-2-78 6.68 W
MOUNTING METHOD CLIMATIC PROOFING EQUIPMENT HEAT DISSIPATION, CURRENT- DEPENDENT UTILIZATION CATEGORY	Built-in device fixed built-in technique Fixed Damp heat, cyclic, to IEC 60068-2-30 Damp heat, constant, to IEC 60068-2-78 6.68 W A (IEC/EN 60947-2) 300 V AC (between the auxiliary contacts) 500 V AC (between auxiliary contacts and
MOUNTING METHOD CLIMATIC PROOFING EQUIPMENT HEAT DISSIPATION, CURRENT- DEPENDENT UTILIZATION CATEGORY ISOLATION AMBIENT OPERATING	Built-in device fixed built-in technique Fixed Damp heat, cyclic, to IEC 60068-2-30 Damp heat, constant, to IEC 60068-2-78 6.68 W A (IEC/EN 60947-2) 300 V AC (between the auxiliary contacts) 500 V AC (between auxiliary contacts and main contacts)

TECHNICAL DATA SHEETS	eaton-nzm-technical- information-sheet
	eaton-manual-motor- starters-starter-nzm-mccb- wiring-diagram.eps
WIRING DIAGRAMS	eaton-manual-motor- starters-starter-msc-r- reversing-starter-wiring- diagram.eps

AMBIENT STORAGE TEMPERATURE - MIN PROTECTION AGAINST DIRECT CONTACT RATED INSULATION VOLTAGE (UI) RATED OPERATING POWER AT AC-3, 230 V RATED OPERATING POWER AT AC-3, 400 V SWITCH OFF TECHNIQUE DEGREE OF PROTECTION DIRECTION OF INCOMING SUPPLY ELECTRICAL CONNECTION TYPE OF MAIN CIRCUIT LIFESPAN, MECHANICAL OVERVOLTAGE CATEGORY RATED OPERATIONAL CURRENT DIRECTION OF INCOMING SUPPLY ELECTRICAL CONNECTION TYPE OF MAIN CIRCUIT LIFESPAN, MECHANICAL OVERVOLTAGE CATEGORY RATED OPERATIONAL CURRENT DEGREE OF PROTECTION (IP), FRONT SIDE DEGREE OF PROTECTION (IP), FRONT SIDE THOU (with insulating surround) IP00 (terminations, phase isolator and strip terminal) IP10 (tunnel terminal) NUMBER OF POLES Three-pole Min. 2 segments of 16 mm x 0.8 mm at rear-side connection (punched) Max. 10 segments of 24 mm x 0.8 mm at rear-side connection (punched) Min. 2 segments of 16 mm x 0.8 mm at rear-side connection (punched) Min. 2 segments of 24 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 16 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 1 mm (2x) at box terminal Max. 8 segments of 24 mm x 1 mm (2x) at box terminal Max. 8 segments of 24 mm x 1 mm (2x) at box terminal Max. 8 segments of 24 mm x 1 mm (2x) at box terminal Max. 8 segments of 24 mm x 1 mm (2x) at box terminal Max. 8 segments of 24 mm x 1 mm (2x) at box terminal Max. 8 segments of 24 mm x 1 mm (2x) at box terminal Max. 8 segments of 24 mm x 1 mm (2x) at box terminal Max. 8 segments of 24 mm x 1 mm (2x) at box terminal Max. 8 segments of 24 mm x 1 mm (2x) at box terminal Max. 8 segments of 24 mm x 1 mm (2x) at box terminal Max. 9 segments of 24 mm x 1 mm (2x) at box terminal Max. 9 segments of 24 mm x 1 mm (2x) at box terminal Max. 9 segments of 24 mm x 1 mm (2x) at box terminal Max. 9 segments of 24 mm x 1 mm (2x) at box terminal		
PROTECTION AGAINST DIRECT CONTACT RATED INSULATION VOLTAGE (UI) RATED OPERATING POWER AT AC-3, 230 V RATED OPERATING POWER AT AC-3, 400 V SWITCH OFF TECHNIQUE DEGREE OF PROTECTION DIRECTION OF INCOMING SUPPLY ELECTRICAL CONNECTION TYPE OF MAIN CIRCUIT LIFESPAN, MECHANICAL CONNECTION TYPE OF MAIN CIRCUIT LIFESPAN, MECHANICAL OVERVOLTAGE CATEGORY RATED OPERATIONAL CURRENT DEGREE OF PROTECTION (IP), FRONT SIDE Three-pole Min. 2 segements of 16 mm x 0.8 mm at rear-side connection (punched) Max. 10 segments of 24 mm x 0.8 mm at rear-side connection (punched) Min. 2 segments of 9 mm x 0.8 mm at rear-side connection (punched) Min. 2 segments of 9 mm x 0.8 mm at rear-side connection (punched) Min. 2 segments of 16 mm x 0.8 mm at rear-side connection (punched) Max. 10 segments of 24 mm x 0.8 mm at rear-side connection (punched) Min. 2 segments of 9 mm x 0.8 mm at rear-side connection (punched) Min. 2 segments of 24 mm x 0.8 mm at box terminal Max. 8 segments of 16 mm x 0.8 mm at box terminal Max. 8 segments of 24 mm x 1 mm (2x) at box terminal		40 °C
RATED OPERATING POWER AT AC-3, 230 V RATED OPERATING POWER AT AC-3, 230 V RATED OPERATING POWER AT AC-3, 400 V SWITCH OFF TECHNIQUE DEGREE OF PROTECTION DIRECTION OF INCOMING SUPPLY ELECTRICAL CONNECTION TYPE OF MAIN CIRCUIT LIFESPAN, MECHANICAL OVERVOLTAGE CATEGORY RATED OPERATIONAL CURRENT DEGREE OF PROTECTION (IP), FRONT SIDE DEGREE OF PROTECTION (IP), FRONT SIDE DEGREE OF PROTECTION (IP), FRONT SIDE DEGREE OF PROTECTION (IP) (IP) (with insulating surround) IP66 (with door coupling rotary handle) IP00 (terminations, phase isolator and strip terminal) IP10 (tunnel terminal) NUMBER OF POLES Three-pole Min. 2 segements of 16 mm x 0.8 mm at rear-side connection (punched) Max. 10 segments of 24 mm x 0.8 mm at rear-side connection (punched) Min. 2 segments of 9 mm x 0.8 mm at rear-side connection (punched) Max. 10 segments of 9 mm x 0.8 mm at rear-side connection (punched) Min. 2 segments of 16 mm x 0.8 mm at rear-side connection (punched) Max. 10 segments of 9 mm x 0.8 mm at rear-side connection (punched) Min. 2 segments of 16 mm x 0.8 mm at box terminal Max. 10 segments of 16 mm x 0.8 mm at box terminal Max. 8 segments of 16 mm x 0.8 mm at box terminal Max. 8 segments of 24 mm x 1 mm (2x) at box terminal		proof to VDE 0106 part
RATED OPERATIONAL CONNECTION CIPPO, FRONT SIDE DEGREE OF PROTECTION DIRECTION OF MAIN CIRCUIT LIFESPAN, MECHANICAL CURRENT DEGREE OF PROTECTION DEGREE OF PROTECTION DIRECTION TYPE OF MAIN CIRCUIT LIFESPAN, MECHANICAL CURRENT RATED OPERATIONAL CURRENT DEGREE OF PROTECTION (IP), FRONT SIDE DEGREE OF PROTECTION (IP) OR (with door coupling rotary handle) IP00 (terminations, phase isolator and strip terminal) Three-pole Min. 2 segements of 16 mm x 0.8 mm at rear-side connection (punched) Max. 10 segments of 24 mm x 0.8 mm at rear-side connection (punched) Min. 2 segments of 9 mm x 0.8 mm at rear-side connection (punched) Min. 2 segments of 16 mm x 0.8 mm at rear-side connection (punched) Min. 2 segments of 24 mm x 0.8 mm at rear-side connection (punched) Min. 2 segments of 16 mm x 0.8 mm at rear-side connection (punched) Min. 2 segments of 24 mm x 0.8 mm at box terminal Max. 10 segments of 16 mm x 0.8 mm at box terminal Max. 8 segments of 16 mm x 0.8 mm at box terminal Max. 10 segments of 16 mm x 0.8 mm at box terminal Max. 8 segments of 24 mm x 1 mm (2x) at box terminal		1000 V
POWER AT AC-3, 400 V SWITCH OFF TECHNIQUE DEGREE OF PROTECTION DIRECTION OF INCOMING SUPPLY ELECTRICAL CONNECTION TYPE OF MAIN CIRCUIT LIFESPAN, MECHANICAL OVERVOLTAGE CATEGORY RATED OPERATIONAL CURRENT DEGREE OF PROTECTION (IP), FRONT SIDE DEGREE OF PROTECTION (IP), FRONT SIDE DEGREE OF PROTECTION (IP), FRONT SIDE DEGREE OF PROTECTION (TERMINATIONS) IP00 (terminations, phase isolator and strip terminal) NUMBER OF POLES Three-pole Min. 2 segements of 16 mm x 0.8 mm at rear-side connection (punched) Max. 10 segments of 9 mm x 0.8 mm at rear-side connection (punched) Min. 2 segments of 9 mm x 0.8 mm at rear-side connection (punched) Min. 2 segments of 9 mm x 0.8 mm at rear-side connection (punched) Min. 2 segments of 9 mm x 0.8 mm at rear-side connection (punched) Min. 2 segments of 24 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 16 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 16 mm x 0.8 mm at box terminal Max. 10 segments of 24 mm x 1 mm (2x) at box terminal		22 kW
DEGREE OF PROTECTION IP20 (basic degree of protection, in the operating controls area) DIRECTION OF INCOMING SUPPLY ELECTRICAL CONNECTION TYPE OF MAIN CIRCUIT LIFESPAN, MECHANICAL OVERVOLTAGE CATEGORY RATED OPERATIONAL CURRENT DEGREE OF PROTECTION (IP), FRONT SIDE DEGREE OF PROTECTION (TERMINATIONS) DEGREE OF PROTECTION (TERMINATIONS) IP40 (with insulating surround) IP66 (with door coupling rotary handle) IP00 (terminations, phase isolator and strip terminal) NUMBER OF POLES Min. 2 segements of 16 mm x 0.8 mm at rear-side connection (punched) Max. 10 segments of 24 mm x 0.8 mm at rear-side connection (punched) Min. 2 segments of 9 mm x 0.8 mm at rear-side connection (punched) 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 16 mm x 0.8 mm at box terminal Max. 10 segments of 24 mm x 1 mm (2x) at box terminal Max. 8 segments of 24 mm x 1 mm (2x) at box terminal		45 kW
DEGREE OF PROTECTION IP20 (basic degree of protection, in the operating controls area) DIRECTION OF INCOMING SUPPLY ELECTRICAL CONNECTION TYPE OF MAIN CIRCUIT LIFESPAN, MECHANICAL OVERVOLTAGE CATEGORY RATED OPERATIONAL CURRENT DEGREE OF PROTECTION (IP), FRONT SIDE DEGREE OF PROTECTION (TERMINATIONS) DEGREE OF PROTECTION (TERMINATIONS) NUMBER OF POLES Min. 2 segements of 16 mm x 0.8 mm at rear-side connection (punched) Max. 10 segments of 24 mm x 0.8 mm at rear-side connection (punched) Max. 10 segments of 16 mm x 0.8 mm at rear-side connection (punched) Min. 2 segments of 9 mm x 0.8 mm at rear-side connection (punched) 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 16 mm x 0.8 mm at box terminal Max. 10 segments of 24 mm x 1 mm (2x) at box terminal	SWITCH OFF TECHNIQUE	Electronic
INCOMING SUPPLY ELECTRICAL CONNECTION TYPE OF MAIN CIRCUIT LIFESPAN, MECHANICAL OVERVOLTAGE CATEGORY RATED OPERATIONAL CURRENT DEGREE OF PROTECTION (IP), FRONT SIDE DEGREE OF PROTECTION (TERMINATIONS) IP40 (with insulating surround) IP66 (with door coupling rotary handle) IP00 (terminations, phase isolator and strip terminal) NUMBER OF POLES Min. 2 segements of 16 mm x 0.8 mm at rear-side connection (punched) Max. 10 segments of 24 mm x 0.8 mm at rear-side connection (punched) 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 16 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 16 mm x 0.8 mm at box terminal Max. 10 segments of 16 mm x 0.8 mm at box terminal Max. 8 segments of 24 mm x 1 mm (2x) at box terminal	DEGREE OF PROTECTION	IP20 (basic degree of protection, in the
CONNECTION TYPE OF MAIN CIRCUIT LIFESPAN, MECHANICAL 20000 operations OVERVOLTAGE CATEGORY RATED OPERATIONAL CURRENT 78 A (690 V AC-3) P40 (with insulating surround) P66 (with door coupling rotary handle) P66 (with door coupling rotary handle) IP00 (terminations, phase isolator and strip terminal) NUMBER OF POLES Three-pole Min. 2 segements of 16 mm x 0.8 mm at rear-side connection (punched) Max. 10 segments of 24 mm x 0.8 mm at rear-side connection (punched) Min. 2 segments of 9 mm x 0.8 mm at rear-side connection (punched) Max. 10 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 16 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 16 mm x 0.8 mm at box terminal Max. 10 segments of 24 mm x 1 mm (2x) at box terminal		As required
OVERVOLTAGE CATEGORY RATED OPERATIONAL CURRENT PAGE BEGREE OF PROTECTION (IP), FRONT SIDE DEGREE OF PROTECTION (IP), FRONT SIDE IP00 (terminations, phase isolator and strip terminal) IP10 (tunnel terminal) NUMBER OF POLES Min. 2 segements of 16 mm x 0.8 mm at rear-side connection (punched) Max. 10 segments of 24 mm x 0.8 mm at rear-side connection (punched) 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 16 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 16 mm x 0.8 mm at box terminal Max. 10 segments of 16 mm x 0.8 mm at box terminal Max. 8 segments of 24 mm x 1 mm (2x) at box terminal	CONNECTION TYPE OF	Screw connection
RATED OPERATIONAL CURRENT PEGREE OF PROTECTION (IP), FRONT SIDE DEGREE OF PROTECTION (IP), FRONT SIDE DEGREE OF PROTECTION (TERMINATIONS) IP10 (tunnel terminal) NUMBER OF POLES Min. 2 segements of 16 mm x 0.8 mm at rear-side connection (punched) Max. 10 segments of 24 mm x 0.8 mm at rear-side connection (punched) 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 16 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 16 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 16 mm x 0.8 mm at box terminal Max. 8 segments of 24 mm x 1 mm (2x) at box terminal	LIFESPAN, MECHANICAL	20000 operations
CURRENT B1 A (400 V AC-3) IP40 (with insulating surround) IP66 (with door coupling rotary handle) IP00 (terminations, phase isolator and strip terminal) IP10 (tunnel terminal) NUMBER OF POLES Min. 2 segements of 16 mm x 0.8 mm at rear-side connection (punched) Max. 10 segments of 24 mm x 0.8 mm at rear-side connection (punched) Min. 2 segments of 9 mm x 0.8 mm at part side connection (punched) Max. 10 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 16 mm x 0.8 mm at box terminal Max. 8 segments of 24 mm x 1 mm (2x) at box terminal		Ш
Surround) IP66 (with door coupling rotary handle) IP00 (terminations, phase isolator and strip terminal) IP10 (tunnel terminal) NUMBER OF POLES Three-pole Min. 2 segements of 16 mm x 0.8 mm at rear-side connection (punched) Max. 10 segments of 24 mm x 0.8 mm at rear-side connection (punched) TERMINAL CAPACITY (COPPER STRIP) TERMINAL CAPACITY (COPPER STRIP) X 0.8 mm at box terminal Max. 10 segments of 16 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 16 mm x 0.8 mm at box terminal Max. 8 segments of 24 mm x 1 mm (2x) at box terminal		
isolator and strip terminal) (TERMINATIONS) IP10 (tunnel terminal) NUMBER OF POLES Three-pole Min. 2 segements of 16 mm x 0.8 mm at rear-side connection (punched) Max. 10 segments of 24 mm x 0.8 mm at rear-side connection (punched) 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 16 mm x 0.8 mm at box terminal Max. 8 segments of 24 mm x 1 mm (2x) at box terminal		surround) IP66 (with door coupling
NUMBER OF POLES Three-pole Min. 2 segements of 16 mm x 0.8 mm at rear-side connection (punched) Max. 10 segments of 24 mm x 0.8 mm at rear-side connection (punched) TERMINAL CAPACITY (COPPER STRIP) 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. 8 segments of 24 mm x 1 mm (2x) at box terminal		
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mm x 0.8 mm at rear-side connection (punched) Max. 10 segments of 24 mm x 0.8 mm at rear-side connection (punched) TERMINAL CAPACITY (COPPER STRIP) 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. 8 segments of 24 mm x 1 mm (2x) at box terminal	NUMBER OF POLES	Three-pole
LIFESPAN, ELECTRICAL 6500 operations at 415 V	(COPPER STRIP)	mm x 0.8 mm at rear-side connection (punched) Max. 10 segments of 24 mm x 0.8 mm at rear-side connection (punched) 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. 8 segments of 24 mm x 1 mm (2x) at box terminal
	LIFESPAN, ELECTRICAL	6500 operations at 415 V

	AC-3 10000 operations at 400 V AC-1 5000 operations at 690 V AC-3 6500 operations at 400 V AC-3 7500 operations at 690 V AC-1 10000 operations at 415 V AC-1
FUNCTIONS	Motor protection Phase failure sensitive
ТҮРЕ	Circuit breaker
SPECIAL FEATURES	 IEC/EN 60947-4-1, IEC/EN 60947-2 The circuit-breaker fulfills all requirements for AC-3 switching category. 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) All AC-3 rating data applies to direct switching by the circuit-breaker under normal operating conditions. If, for example, a contactor takes over AC-3 switching under normal operating conditions, the full rated uninterrupted current applies to the circuit-breaker, In = Iu. 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: 90 A
APPLICATION	Use in unearthed supply systems at 690 V
SHOCK RESISTANCE	20 g (half-sinusoidal shock 20 ms)
RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)	90 A
RATED SHORT-TIME WITHSTAND CURRENT (T = 0.3 S)	1.9 kA
RATED SHORT-TIME WITHSTAND CURRENT (T = 1 S)	1.9 kA
SHORT-CIRCUIT RELEASE NON-DELAYED SETTING - MAX	1260 A
SHORT-CIRCUIT RELEASE NON-DELAYED SETTING - MIN	180 A
HANDLE TYPE	Rocker lever
INSTANTANEOUS CURRENT SETTING (II) - MAX	1260 A
INSTANTANEOUS CURRENT SETTING (II) - MIN	90 A
NUMBER OF OPERATIONS PER HOUR - MAX	120
OVERLOAD CURRENT SETTING (IR) - MAX	90 A
OVERLOAD CURRENT SETTING (IR) - MIN	45 A
RATED SHORT-CIRCUIT BREAKING CAPACITY ICS (IEC/EN 60947) AT 230 V, 50/60 HZ	150 kA
RATED SHORT-CIRCUIT	130 kA

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	130 kA
RATED SHORT-CIRCUIT BREAKING CAPACITY ICS (IEC/EN 60947) AT 525 V, 50/60 HZ	37.5 kA
RATED SHORT-CIRCUIT BREAKING CAPACITY ICS (IEC/EN 60947) AT 690 V, 50/60 HZ	5 kA
STANDARD TERMINALS	Screw terminal
OPTIONAL TERMINALS	Box terminal. Connection on rear. Tunnel terminal
RELEASE SYSTEM	Electronic release
SHORT-CIRCUIT TOTAL BREAKTIME	< 10 ms
TERMINAL CAPACITY (ALUMINUM SOLID CONDUCTOR/CABLE)	10 mm ² - 16 mm ² (1x) direct at switch rear-side connection 16 mm ² (1x) at tunnel terminal 10 mm ² - 16 mm ² (2x) direct at switch rear-side connection
TERMINAL CAPACITY (ALUMINUM STRANDED CONDUCTOR/CABLE)	25 mm ² - 50 mm ² (1x) direct at switch rear-side connection 25 mm ² - 50 mm ² (2x) direct at switch rear-side connection 25 mm ² - 185 mm ² (1x) at 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 (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)	16 mm² (1x) at tunnel terminal 10 mm² - 16 mm² (1x) direct at switch rear-side connection

	10 mm ² - 16 mm ² (1x) at box terminal 6 mm ² - 16 mm ² (2x) at box terminal 6 mm ² - 16 mm ² (2x) direct at switch rear-side connection
TERMINAL CAPACITY (COPPER STRANDED CONDUCTOR/CABLE)	25 mm² - 185 mm² (1x) at 1-hole tunnel terminal 25 mm² - 185 mm² (1x) direct at switch rear-side connection 25 mm² - 185 mm² (1x) at box terminal 25 mm² - 70 mm² (2x) at box terminal 25 mm² - 70 mm² (2x) direct at switch rear-side connection
RATED SHORT-CIRCUIT BREAKING CAPACITY ICU (IEC/EN 60947) AT 400/415 V, 50/60 HZ	130 kA
RATED SHORT-CIRCUIT MAKING CAPACITY ICM AT 400/415 V, 50/60 HZ	330 kA
RATED SHORT-CIRCUIT MAKING CAPACITY ICM AT 440 V, 50/60 HZ	286 kA
RATED SHORT-CIRCUIT MAKING CAPACITY ICM AT 525 V, 50/60 HZ	105 kA
RATED SHORT-CIRCUIT MAKING CAPACITY ICM AT 690 V, 50/60 HZ	40 kA
RATED SHORT-CIRCUIT MAKING CAPACITY ICM AT 240 V, 50/60 HZ	330 kA
RATED IMPULSE WITHSTAND VOLTAGE (UIMP) AT AUXILIARY CONTACTS	6000 V
RATED IMPULSE WITHSTAND VOLTAGE (UIMP) AT MAIN CONTACTS	8000 V

PROJECT NAME:	
PROJECT NUMBER:	
PREPARED BY:	
DATE:	



Eaton Corporation plc

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