Eaton 192108

Eaton Moeller series NZM - Molded Case Circuit Breaker. NZM2 PXR25 circuit breaker - integrated energy measurement class 1, 220A, 3p, Screw terminal, N, 2

PRODUCT NAME	Eaton Moeller series NZM molded case circuit breaker electronic
CATALOG NUMBER	192108
PRODUCT LENGTH/DEPTH	190 mm
PRODUCT HEIGHT	160 mm
PRODUCT WIDTH	115 mm
PRODUCT WEIGHT	2.4 kg
COMPLIANCES	RoHS conform
CERTIFICATIONS	IEC IEC/EN 60947



	222.4
AMPERAGE RATING	220 A
	690 V - 690 V
CIRCUIT BREAKER FRAME	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.
10.2.7 INSCRIPTIONS	Meets the product

	eaton-circuit-breaker-nzm- mccb-characteristic-curve- 042.eps
CHARACTERISTIC CURVE	<u>eaton-circuit-breaker-nzm-</u> <u>mccb-characteristic-curve-</u> <u>060.eps</u>
	<u>eaton-circuit-breaker-nzm-</u> <u>mccb-characteristic-curve-</u> <u>059.eps</u>
DECLARATIONS OF CONFORMITY	<u>DA-DC-03 N2</u>
	<u>eaton-circuit-breakers-</u> nzmb-nzmn-basic-unit- bg2-instruction-leaflet- il012099zu.pdf
	eaton-circuit-breaker-nzm- mccb-dimensions-019.eps

	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	ls the panel builder's responsibility.
INSULATING MATERIAL	
FITTED WITH:	Thermal protection
FITTED WITH:	Thermal protection
FITTED WITH: POLLUTION DEGREE	Thermal protection 3 Fixed Built-in device fixed built-
FITTED WITH: POLLUTION DEGREE MOUNTING METHOD	Thermal protection 3 Fixed Built-in device fixed built- in technique Damp heat, cyclic, to IEC 60068-2-30 Damp heat, constant, to
FITTED WITH: POLLUTION DEGREE MOUNTING METHOD CLIMATIC PROOFING EQUIPMENT HEAT DISSIPATION, CURRENT-	Thermal protection 3 Fixed Built-in device fixed built- in technique Damp heat, cyclic, to IEC 60068-2-30 Damp heat, constant, to IEC 60068-2-78
FITTED WITH: POLLUTION DEGREE MOUNTING METHOD CLIMATIC PROOFING EQUIPMENT HEAT DISSIPATION, CURRENT- DEPENDENT	Thermal protection 3 Fixed Built-in device fixed built- in technique Damp heat, cyclic, to IEC 60068-2-30 Damp heat, constant, to IEC 60068-2-78 39.93 W
FITTED WITH: POLLUTION DEGREE MOUNTING METHOD CLIMATIC PROOFING EQUIPMENT HEAT DISSIPATION, CURRENT- DEPENDENT UTILIZATION CATEGORY	Thermal protection 3 Fixed Built-in device fixed built- in technique Damp heat, cyclic, to IEC 60068-2-30 Damp heat, constant, to IEC 60068-2-78 39.93 W A (IEC/EN 60947-2) 300 V AC (between the auxiliary contacts) 500 V AC (between auxiliary contacts and
FITTED WITH: POLLUTION DEGREE MOUNTING METHOD CLIMATIC PROOFING EQUIPMENT HEAT DISSIPATION, CURRENT- DEPENDENT UTILIZATION CATEGORY ISOLATION AMBIENT OPERATING	Thermal protection3FixedBuilt-in device fixed built- in techniqueDamp heat, cyclic, to IEC 60068-2-30Damp heat, constant, to IEC 60068-2-7839.93 WA (IEC/EN 60947-2)300 V AC (between the auxiliary contacts) 500 V AC (between auxiliary contacts and main contacts)

AMBIENT STORAGE TEMPERATURE - MIN40 °CPROTECTION AGAINST DIRECT CONTACTFinger and back-of-hand proof to VDE 0106 part 100RATED INSULATION VOLTAGE (UI)690 VRATED OPERATING POWER AT AC-3, 230 V55 kWRATED OPERATING POWER AT AC-3, 400 V110 kWSWITCH OFF TECHNIQUEElectronicDEGREE OF PROTECTION INCOMING SUPPLYIP20 IP20 (basic degree of protection, in the operating controls area)DIRECTION OF INCOMING SUPPLYScrew connectionELECTRICAL CONNECTION TYPE OF MAIN CIRCUIT20000 operationsOYERVOLTAGE CATEGORYIIIDEGREE OF PROTECTION (IP), FRONT SIDEIP40 (with insulating surround) IP66 (with door coupling otary handle)DEGREE OF PROTECTION (IP), FRONT SIDEIP10 (tunnel terminal) IP66 (with door coupling surround) IP66 (with door coupling surround) IP60 (terminations, phase isolator and strip terminal) IP00 (terminations, phase isolator and strip terminal) IP00 (terminations, phase isolator and strip terminal) Max. 10 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) Max. 8 segments of 24 mm x 0.8 mm at toox terminal Min. 2 segments of 24 mm x 0.8 mm at box terminal Min. 2 segments of 9 mm x 0.8 mm at box terminal Min. 2 segments of 9 mm x 0.8 mm at box terminal Min. 2 segments of 94 mm x 0.8 mm at box terminal Min. 2 segments of 94 mm x 0.8 mm at box terminal Min. 2 segments of 94 mm x 0.8 mm at box terminal Min. 2 segments of 94 mm x 0.8 mm at box terminal Min. 2 segments of 94 mm x 0.8 mm at box terminal Min. 2 segme		
PROTECTION AGAINST DIRECT CONTACTproof to VDE 0106 part 100RATED INSULATION VOLTAGE (UI)690 VRATED OPERATING POWER AT AC-3, 230 V55 kWRATED OPERATING POWER AT AC-3, 400 V110 kWSWITCH OFF TECHNIQUEElectronicDEGREE OF PROTECTIONIP20 IP20 (basic degree of protection, in the operating controls area)DIRECTION OF INCOMING SUPPLYAs requiredELECTRICAL CONNECTION TYPE OF MAIN CIRCUIT20000 operationsOVERVOLTAGE CATEGORYIIIDEGREE OF PROTECTION (IP), FRONT SIDEIP40 (with insulating surround) IP66 (with door coupling rotary handle)DEGREE OF PROTECTION (IP), FRONT SIDEP100 (terminal) IP60 (terminations, phase isolator and strip terminal) IP00 (terminations, phase isolator and strip terminal) IP00 (terminations, phase isolator and strip terminal) MAX. 10 segments of 16 mm x 0.8 mm at rear-side connection (punched) MAX. 10 segments of 24 mm x 0.8 mm at tear-side connection (punched) MAX. 10 segments of 24 mm x 0.8 mm at tear-side connection (punched) MAX. 3 segments of 24 mm x 1 mm (2x) at box terminal Min. 2 segments of 9 mm N.2 segments of 9 mm N.		40 °C
Voltrage (U)690 VRATED OPERATING POWER AT AC-3, 230 V55 kWRATED OPERATING POWER AT AC-3, 400 V110 kWSWITCH OFF TECHNIQUEElectronicDEGREE OF PROTECTIONIP20 (basic degree of protection, in the operating controls area)DIRECTION OF INCOMING SUPPLYAs requiredELECTRICAL CONNECTION TYPE OF MAIN CIRCUITScrew connectionOVERVOLTAGE CATEGORYIIIDEGREE OF PROTECTION (IP), FRONT SIDEIP40 (with insulating surround) IP66 (with door coupling rotary handle)DEGREE OF PROTECTION (IP), FRONT SIDEIP10 (tunnel terminal) IP00 (terminations, phase isolator and strip terminal)NUMBER OF POLESThree-poleTERMINAL CAPACITY (COPPER STRIP)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) Max. 8 segments of 24 mm x 0.8 mm at tear-side connection (punched) Max. 8 segments of 24 mm x 0.8 mm at tear-side connection (punched) Max. 8 segments of 24 mm x 0.8 mm at tear-side connection (punched) Max. 8 segments of 24 mm x 0.8 mm at tear-side connection (punched) Max. 8 segments of 24 mm x 0.8 mm at tear-side connection (punched) Max. 8 segments of 24 mm x 0.8 mm at tear-side connection (punched) Max. 8 segments of 9 mm x 0.8 mm at tear-side connection (punched) Max. 8 segments of 9 mm x 0.8 mm at tear-side connection (punched) Max. 8 segments of 24 mm x 0.8 mm at tear-side connection (punched) Max. 8 segments of 9 mm x 0.8 mm at tear-side connection (punched) Max. 8 segments of 9 mm x 0.8 mm at toox terminalLIFESPAN, ELECTRI		proof to VDE 0106 part
POWER AT AC-3, 230 V55 kWRATED OPERATING POWER AT AC-3, 400 V110 kWSWITCH OFF TECHNIQUEElectronicDEGREE OF PROTECTIONIP20 IP20 (basic degree of protection, in the operating controls area)DIRECTION OF INCOMING SUPPLYAs requiredELECTRICAL CONNECTION TYPE OF MAIN CIRCUIT20000 operationsOVERVOLTAGE CATEGORYIIIDEGREE OF PROTECTION (IP), FRONT SIDEIP40 (with insulating surround) IP66 (with door coupling rotary handle)DEGREE OF PROTECTION (IP), FRONT SIDEIP10 (tunnel terminal) IP00 (terminations, phase isolator and strip terminal) MAX. 10 segments of 16 mm x 0.8 mm at tear-side connection (punched) Max. 10 segments of 24 mm x 0.8 mm at box terminal Min. 2 segments of 24 mm x 0.8 mm at tear-side connection (punched) Max. 10 segments of 24 mm x 0.8 mm at tear-side connection (punched) Max. 8 segments of 24 mm x 0.8 mm at tear-side connection (punched) Max. 8 segments of 24 mm x 0.8 mm at tear-side connection (punched) Max. 8 segments of 24 mm x 0.8 mm at tear-side connection (punched) Max. 8 segments of 24 mm x 0.8 mm at toox terminal Min. 2 segments of 9 mm x 0.8 mm at box terminal Min. 2 segments of 9 mm x 0.8 mm at box terminal Min. 2 segments of 9 mm x 0.8 mm at box terminal Min. 2 segments of 9 mm x 0.8 mm at box terminal Min. 2 segments of 9 mm x 0.8 mm at box terminal Min. 2 segments of 9 mm x 0.8 mm at box terminal Min. 2 segments of 9 mm x 0.8 mm at box terminal Min. 2 segments of 9 mm x 0.8 mm at box terminal Min. 2 segments of 9 mm x 0.8 mm at box terminal Min. 2 segments of 9 mm x 0.8 mm at box terminal Min. 2 segments of 9 mm x 0.8		690 V
POWER AT AC-3, 400 V110 kWSWITCH OFF TECHNIQUEElectronicDEGREE OF PROTECTIONIP20 (P20 (basic degree of protection, in the operating controls area)DIRECTION OF INCOMING SUPPLYAs requiredELECTRICAL CONNECTION TYPE OF MAIN CIRCUITScrew connectionLIFESPAN, MECHANICAL20000 operationsOVERVOLTAGE CATEGORYIIIDEGREE OF PROTECTION (IP), FRONT SIDEIP40 (with insulating surround) IP66 (with door coupling rotary handle)DEGREE OF PROTECTION (TERMINATIONS)IP101 (tunnel terminal) IP00 (terminations, phase isolator and strip terminal) IP00 (terminations, phase isolator and strip terminal) Max. 10 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) Max. 8 segments of 24 mm x 1 mm (2x) at box terminal Min. 2 segments of 9 mm x 0.8 mm at box terminal Min. 2 segments of 24 mm x 0.8 mm at box terminal Max. 8 segments of 24 mm x 1 mm (2x) at box terminal Min. 2 segments of 9 mm x 0.8 mm at box terminal Min. 2 segments of 9 mm x 0.8 mm at box terminal Min. 2 segments of 9 mm x 0.8 mm at box terminal Min. 2 segments of 9 mm x 0.8 mm at box terminal Min. 2 segments of 9 mm x 0.8 mm at box terminal Min. 2 segments of 9 mm x 0.8 mm at box terminal Min. 2 segments of 9 mm x 0.8 mm at box terminal Min. 2 segments of 9 mm x 0.8 mm at box terminal Min. 2 segments of 9 mm x 0.8 mm at box terminal Min. 2 segments of 9 mm x 0.8 mm at box terminal Min. 2 segments of 9 mm x 0.8 mm at box terminal Min. 2 segments of 9 mm x 0.8 mm at box terminal Min. 2 segments of 9 Mm x 0.8 mm at box terminal Min. 2 seg		55 kW
DEGREE OF PROTECTIONIP20 IP20 (basic degree of protection, in the operating controls area)DIRECTION OF INCOMING SUPPLYAs requiredELECTRICAL CONNECTION TYPE OF MAIN CIRCUITScrew connectionLIFESPAN, MECHANICAL20000 operationsOVERVOLTAGE CATEGORYIIIDEGREE OF PROTECTION (IP), FRONT SIDEIP40 (with insulating surround) IP66 (with door coupling rotary handle)DEGREE OF PROTECTION (TERMINATIONS)IP10 (tunnel terminal) IP00 (terminations, phase isolator and strip terminal) IP00 (terminations, phase isolator and strip terminal) Max. 10 segments of 16 mm x 0.8 mm at rear-side connection (punched) Max. 10 segments of 24 mm x 0.8 mm at trear-side connection (punched) Max. 8 segments of 24 mm x 0.8 mm at trear-side connection (punched) Max. 8 segments of 24 mm x 0.8 mm at tear-side connection (punched) Max. 8 segments of 24 mm x 0.8 mm at tear-side connection (punched) Max. 8 segments of 24 mm x 0.8 mm at tear-side connection (punched) Max. 8 segments of 24 mm x 1 mm (2x) at box terminal Min. 2 segments of 9 mm x 0.8 mm at box terminal Min. 2 segments of 9 mm x 0.8 mm at box terminal Min. 2 segments of 9 mm x 0.8 mm at box terminal Min. 2 segments of 9 mm x 0.8 mm at box terminal Min. 2 segments of 9 mm x 0.8 mm at box terminalLIFESPAN, ELECTRICALS000 operations at 690 V AC-3 10000 operations at 415 V		110 kW
DEGREE OF PROTECTIONIP20 (basic degree of protection, in the operating controls area)DIRECTION OF INCOMING SUPPLYAs requiredELECTRICAL CONNECTION TYPE OF MAIN CIRCUITScrew connectionLIFESPAN, MECHANICAL20000 operationsOVERVOLTAGE CATEGORYIIIDEGREE OF PROTECTION (P), FRONT SIDEIP40 (with insulating surround) IP66 (with door coupling rotary handle)DEGREE OF PROTECTION (P), FRONT SIDEIP10 (tunnel terminal) IP00 (terminations, phase isolator and strip terminal) IP00 (terminations, phase isolator and strip terminal) Max. 10 segments of 16 mm x 0.8 mm at rear-side connection (punched) Max. 10 segments of 24 mm x 0.8 mm at tear-side connection (punched) Max. 8 segments of 24 mm x 0.8 mm at tear-side connection (punched) Max. 8 segments of 24 mm x 0.8 mm at tear-side connection (punched) Max. 8 segments of 24 mm x 0.8 mm at tear-side connection (punched) Max. 8 segments of 24 mm x 0.8 mm at tear-side connection (punched) Max. 8 segments of 24 mm x 0.8 mm at tear-side connection (punched) Max. 8 segments of 24 mm x 0.8 mm at box terminal Min. 2 segments of 9 mm x 0.8 mm at box terminal Min. 2 segments of 9 mm x 0.8 mm at box terminal Min. 2 segments of 9 mm x 0.8 mm at box terminal Min. 2 segments of 9 mm x 0.8 mm at box terminal Min. 2 segments of 9 mm x 0.8 mm at box terminalLIFESPAN, ELECTRICALS000 operations at 690 V AC-3 10000 operations at 415 V	SWITCH OFF TECHNIQUE	Electronic
INCOMING SUPPLYAs requiredELECTRICAL CONNECTION TYPE OF MAIN CIRCUITScrew connectionLIFESPAN, MECHANICAL20000 operationsOVERVOLTAGE CATEGORYIIIDEGREE OF PROTECTION (IP), FRONT SIDEIP40 (with insulating surround) IP66 (with door coupling rotary handle)DEGREE OF PROTECTION (TERMINATIONS)IP10 (tunnel terminal) IP00 (terminations, phase isolator and strip terminal)NUMBER OF POLESThree-poleMin. 2 segements of 16 mm x 0.8 mm at rear-side connection (punched) Max. 10 segments of 16 mm x 0.8 mm at box terminalTERMINAL CAPACITY (COPPER STRIP)Max. 10 segments of 24 mm x 0.8 mm at rear-side connection (punched) Max. 8 segments of 24 mm x 1 mm (2x) at box terminal Min. 2 segments of 9 mm x 0.8 mm at box terminalLIFESPAN, ELECTRICALS000 operations at 690 V AC-3 10000 operations at 415 V	DEGREE OF PROTECTION	IP20 (basic degree of protection, in the
CONNECTION TYPE OF MAIN CIRCUITScrew connectionLIFESPAN, MECHANICAL20000 operationsOVERVOLTAGE CATEGORYIIIDEGREE OF PROTECTION (IP), FRONT SIDEIP40 (with insulating surround) IP66 (with door coupling rotary handle)DEGREE OF PROTECTION (TERMINATIONS)IP10 (tunnel terminal) IP00 (terminations, phase isolator and strip terminal)NUMBER OF POLESMin. 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 tear-side connection (punched) Max. 8 segments of 24 mm x 1 mm (2x) at box terminal Min. 2 segments of 9 mm x 0.8 mm at box terminalLIFESPAN, ELECTRICALSo00 operations at 690 V AC-3 10000 operations at 415 V		As required
OVERVOLTAGE CATEGORYIIIDEGREE OF PROTECTION (IP), FRONT SIDEIP40 (with insulating surround) IP66 (with door coupling rotary handle)DEGREE OF PROTECTION (TERMINATIONS)IP10 (tunnel terminal) IP00 (terminations, phase isolator and strip terminal)NUMBER OF POLESThree-poleMin. 2 segements of 16 mm x 0.8 mm at rear-side connection (punched) Max. 10 segments of 16 mm x 0.8 mm at box terminalTERMINAL CAPACITY (COPPER STRIP)Max. 10 segments of 24 mm x 0.8 mm at rear-side connection (punched) Max. 10 segments of 24 mm x 0.8 mm at box terminal Min. 2 segments of 24 mm x 0.8 mm at par-side connection (punched) Max. 8 segments of 24 mm x 1 mm (2x) at box terminal Min. 2 segments of 9 mm x 0.8 mm at box terminalLIFESPAN, ELECTRICALS000 operations at 690 V AC-3 10000 operations at 415 V	CONNECTION TYPE OF	Screw connection
CATEGORYIIIDEGREE OF PROTECTION (IP), FRONT SIDEIP40 (with insulating surround) IP66 (with door coupling rotary handle)DEGREE OF PROTECTION (TERMINATIONS)IP10 (tunnel terminal) IP00 (terminations, phase isolator and strip terminal)NUMBER OF POLESThree-poleNUMBER OF POLESMin. 2 segments of 16 mm x 0.8 mm at rear-side connection (punched) Max. 10 segments of 16 mm x 0.8 mm at box terminalTERMINAL CAPACITY (COPPER STRIP)Max. 10 segments of 24 mm x 0.8 mm at rear-side connection (punched) Max. 8 segments of 24 mm x 0.8 mm at rear-side connection (punched) Max. 8 segments of 24 mm x 0.8 mm at rear-side connection (punched) Max. 8 segments of 24 mm x 0.8 mm at rear-side connection (punched) Max. 8 segments of 24 mm x 0.8 mm at rear-side connection set 910 Max. 8 segments of 9 mm x 0.8 mm at box terminalLIFESPAN, ELECTRICALS000 operations at 690 V AC-3 10000 operations at 415 V	LIFESPAN, MECHANICAL	20000 operations
DEGREE OF PROTECTION (IP), FRONT SIDEsurround) IP66 (with door coupling rotary handle)DEGREE OF PROTECTION (TERMINATIONS)IP10 (tunnel terminal) IP00 (terminations, phase isolator and strip terminal)NUMBER OF POLESThree-poleMin. 2 segements of 16 mm x 0.8 mm at rear-side connection (punched) Max. 10 segments of 16 mm x 0.8 mm at box terminalTERMINAL CAPACITY (COPPER STRIP)Min. 2 segments of 24 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. 3 segments of 24 mm x 1 mm (2x) at box terminal Min. 2 segments of 9 mm x 0.8 mm at box terminalLIFESPAN, ELECTRICALS000 operations at 690 V AC-3 10000 operations at 415 V		
DEGREE OF PROTECTION (TERMINATIONS)IP00 (terminations, phase isolator and strip terminal)NUMBER OF POLESThree-poleMin. 2 segements of 16 mm x 0.8 mm at rear-side connection (punched) Max. 10 segments of 16 mm x 0.8 mm at box terminalTERMINAL CAPACITY (COPPER STRIP)Max. 10 segments of 24 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. 8 segments of 24 mm x 1 mm (2x) at box terminal Min. 2 segments of 9 mm x 0.8 mm at box terminalLIFESPAN, ELECTRICALS000 operations at 690 V AC-3 10000 operations at 415 V		surround) IP66 (with door coupling
TERMINAL CAPACITY (COPPER STRIP)Min. 2 segements of 16 mm x 0.8 mm at rear-side connection (punched) 		IP00 (terminations, phase
TERMINAL CAPACITY (COPPER STRIP)mm x 0.8 mm at rear-side connection (punched) Max. 10 segments of 16 mm x 0.8 mm at box terminal Max. 10 segments of 24 mm x 0.8 mm at rear-side connection (punched) Max. 8 segments of 24 mm x 1 mm (2x) at box terminal Min. 2 segments of 9 mm x 0.8 mm at box terminalLIFESPAN, ELECTRICAL5000 operations at 690 V AC-3 10000 operations at 415 V	NUMBER OF POLES	Three-pole
LIFESPAN, ELECTRICAL AC-3 10000 operations at 415 V		mm x 0.8 mm at rear-side connection (punched) Max. 10 segments of 16 mm x 0.8 mm at box terminal Max. 10 segments of 24 mm x 0.8 mm at rear-side connection (punched) Max. 8 segments of 24 mm x 1 mm (2x) at box terminal Min. 2 segments of 9 mm
	LIFESPAN, ELECTRICAL	AC-3 10000 operations at 415 V

	10000 operations at 400 V AC-1 6500 operations at 400 V AC-3 6500 operations at 415 V AC-3 7500 operations at 690 V AC-1
FUNCTIONS	Motor protection Phase failure sensitive
ТҮРЕ	Circuit breaker
	 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) Motor protection -

- overload- and short-circuit protective device Ll Motor
- Class 1 energy measurement, phase loss protection, r.m.s.
 - value measurement, and "thermal memory"
- USB interface for configuration and test function with Power Xpert Protection Manager software
- Interface module in equipment supplied.
- Optionally communicationcapable with interface module and internal Modbus RTU module or CAM
- Rated current = rated uninterrupted

SPECIAL FEATURES

	current: 220 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)	220 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	3080 A
SHORT-CIRCUIT RELEASE NON-DELAYED SETTING - MIN	440 A
HANDLE TYPE	Rocker lever
INSTANTANEOUS CURRENT SETTING (II) - MAX	14 A
INSTANTANEOUS CURRENT SETTING (II) - MIN	2 A
NUMBER OF OPERATIONS PER HOUR - MAX	120
OVERLOAD CURRENT SETTING (IR) - MAX	220 A
OVERLOAD CURRENT SETTING (IR) - MIN	88 A
RATED SHORT-CIRCUIT BREAKING CAPACITY ICS (IEC/EN 60947) AT 230 V, 50/60 HZ	85 kA
RATED SHORT-CIRCUIT BREAKING CAPACITY ICS (IEC/EN 60947) AT 400/415 V, 50/60 HZ	35 kA
RATED SHORT-CIRCUIT BREAKING CAPACITY ICS (IEC/EN 60947) AT 440 V, 50/60 HZ	35 kA
RATED SHORT-CIRCUIT BREAKING CAPACITY ICS	25 kA

(IEC/EN 60947) AT 525 V, 50/60 HZ	
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)	16 mm² (1x) at tunnel terminal
TERMINAL CAPACITY (ALUMINUM STRANDED CONDUCTOR/CABLE)	25 mm² - 185 mm² (1x) at tunnel terminal
TERMINAL CAPACITY (CONTROL CABLE)	0.75 mm² - 2.5 mm² (1x) 0.75 mm² - 1.5 mm² (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 mm ² (1x) at tunnel terminal 6 mm ² - 16 mm ² (2x) direct at switch rear-side connection 10 mm ² - 16 mm ² (1x) at box terminal 10 mm ² - 16 mm ² (1x) direct at switch rear-side connection 6 mm ² - 16 mm ² (2x) at box terminal
TERMINAL CAPACITY (COPPER STRANDED CONDUCTOR/CABLE)	25 mm ² - 185 mm ² (1x) at 1-hole tunnel terminal 25 mm ² - 185 mm ² (1x) at box terminal 25 mm ² - 70 mm ² (2x) direct at switch rear-side connection 25 mm ² - 70 mm ² (2x) at box terminal 25 mm ² - 185 mm ² (1x) direct at switch rear-side connection

RATED SHORT-CIRCUIT BREAKING CAPACITY ICU (IEC/EN 60947) AT 400/415 V, 50/60 HZ	35 kA
RATED SHORT-CIRCUIT MAKING CAPACITY ICM AT 400/415 V, 50/60 HZ	105 kA
RATED SHORT-CIRCUIT MAKING CAPACITY ICM AT 440 V, 50/60 HZ	74 kA
RATED SHORT-CIRCUIT MAKING CAPACITY ICM AT 525 V, 50/60 HZ	53 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	187 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:

:



Eaton House 30 Pembroke Road Dublin 4, Eaton.com

© 2025

Follow us on social media to get the latest product and support information.

