Specifications







Eaton 051801

Eaton Moeller® series DILEM Contactor, 110 V 50 Hz, 120 V 60 Hz, 4 pole, 380 V 400 V, 4 kW, Screw terminals, AC operation

General specifications		
PRODUCT NAME	Eaton Moeller® series DILEM Mini contactor	
CATALOG NUMBER	051801	
MODEL CODE	DILEM4(110V50HZ,120V60HZ)	
EAN	4015080518013	
PRODUCT LENGTH/DEPTH	52 mm	
PRODUCT HEIGHT	58 mm	
PRODUCT WIDTH	45 mm	
PRODUCT WEIGHT	0.17 kg	
CERTIFICATIONS	UL VDE 0660 CSA UL 508 UL File No.: E29096 CE IEC/EN 60947 UL Category Control No.: NLDX CSA Class No.: 3211-04 IEC/EN 60947-4-1 CSA File No.: 012528 CSA-C22.2 No. 14-05	
CATALOG NOTES	Also tested according to AC-3e.	
GLOBAL CATALOG	051801	



Product specifications	
NUMBER OF POLES	Four-pole
FEATURES	Positive operating contacts to EN 60947-5-1 appendix L, including auxiliary contact module
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.
	Does not apply, since the
10.2.6 MECHANICAL IMPACT	entire switchgear needs to be evaluated.
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Resources	
	eaton-product-overview- for-machinery-catalogue- ca08103003zen-en-us.pdf
CATALOGS	Product Range Catalog Switching and protecting motors
	eaton-contactors-short- time-loading-dilm- characteristic-curve.eps
CHARACTERISTIC CURVE	eaton-contactors-switch- dilm-characteristic- curve.eps
	eaton-contactors- component-dilm- characteristic-curve- 003.eps
DECLARATIONS OF	eaton-4-pole-contactor- declaration-of-conformity- eu250773en.pdf
CONFORMITY	eaton-4-pole-contactor- declaration-of-conformity- uk251256en.pdf
	eaton-contactors-diler- dimensions-004.eps
	eaton-contactors-diler- dimensions-005.eps
DRAWINGS	<u>eaton-contactors-dilem-</u> <u>dimensions.eps</u>
	eaton-tripping-devices- mounting-diler-contactor- relay-symbol.eps
ECAD MODEL	ETN.051801.edz
INSTALLATION INSTRUCTIONS	IL03407009Z
MCAD MODEL	DA-CS-dil em
	DA-CD-dil em
PEP ECO-PASSPORT	eaton-iec-contactors-pep- eato-00133-v0101-en.pdf
SYSTEM OVERVIEW	eaton-contactors- accessory-dilem-system- overview.eps
WIRING DIAGRAMS	eaton-contactors-contact- dilem-wiring-diagram.eps

PROTECTION OF ASSEMBLIES	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.
OPERATING FREQUENCY	9000 mechanical Operations/h
POLLUTION DEGREE	3
CLIMATIC PROOFING	Damp heat, cyclic, to IEC 60068-2-30 Damp heat, constant, to IEC 60068-2-78
RATED IMPULSE WITHSTAND VOLTAGE (UIMP)	6000 V AC
UTILIZATION CATEGORY	AC-4: Normal AC induction motors: starting, plugging, reversing, inching AC-1: Non-inductive or slightly inductive loads, resistance furnaces AC-3: Normal AC induction motors: starting, switch off during running
CONNECTION	Screw terminals
AMBIENT OPERATING TEMPERATURE - MAX	50 °C
AMBIENT OPERATING TEMPERATURE - MIN	-25 °C
AMBIENT OPERATING TEMPERATURE (ENCLOSED) - MAX	40 °C
AMBIENT OPERATING TEMPERATURE	-25 °C
TEIVII EIGATORE	

(ENCLOSED) - MIN	
AMBIENT STORAGE TEMPERATURE - MAX	80 °C
AMBIENT STORAGE TEMPERATURE - MIN	-40 °C
ASSIGNED MOTOR POWER AT 115/120 V, 60 HZ, 1-PHASE	0.5 HP
ASSIGNED MOTOR POWER AT 200/208 V, 60 HZ, 3-PHASE	2 HP
ASSIGNED MOTOR POWER AT 230/240 V, 60 HZ, 1-PHASE	1.5 HP
ASSIGNED MOTOR POWER AT 230/240 V, 60 HZ, 3-PHASE	3 HP
ASSIGNED MOTOR POWER AT 460/480 V, 60 HZ, 3-PHASE	5 HP
ASSIGNED MOTOR POWER AT 575/600 V, 60 HZ, 3-PHASE	5 HP
CONVENTIONAL THERMAL CURRENT ITH (1-POLE, ENCLOSED)	50 A
CONVENTIONAL THERMAL CURRENT ITH (3-POLE, ENCLOSED)	16 A
CONVENTIONAL THERMAL CURRENT ITH AT 55°C (3-POLE, OPEN)	19 A
CONVENTIONAL THERMAL CURRENT ITH OF AUXILIARY CONTACTS (1-POLE, OPEN)	10 A
CONVENTIONAL THERMAL CURRENT ITH OF MAIN CONTACTS (1- POLE, OPEN)	60 A
EQUIPMENT HEAT DISSIPATION, CURRENT- DEPENDENT PVID	9.56 W
HEAT DISSIPATION CAPACITY PDISS	0 W
HEAT DISSIPATION PER POLE, CURRENT- DEPENDENT PVID	2.39 W
SWITCHING TIME (AC OPERATED, N/O, WITH AUXILIARY CONTACT MODULE, CLOSING DELAY)	45 ms

APPLICATION	Mini Contactors for Motors and Resistive Loads
PRODUCT CATEGORY	Contactors
PROTECTION	Finger and back-of-hand proof, Protection against direct contact when actuated from front (EN 50274)
ARCING TIME	12 ms at 690 V AC
ELECTRICAL CONNECTION TYPE OF MAIN CIRCUIT	Screw connection
SCREWDRIVER SIZE	0.8 x 5.5/1 x 6 mm, Terminal screw, Standard screwdriver 2, Terminal screw, Pozidriv screwdriver
VOLTAGE TYPE	AC
DEGREE OF PROTECTION	IP20
MOUNTING POSITION	As required (except vertical with terminals A1/A2 at the bottom)
NUMBER OF AUXILIARY CONTACTS (NORMALLY CLOSED CONTACTS)	0
NUMBER OF AUXILIARY CONTACTS (NORMALLY OPEN CONTACTS)	0
NUMBER OF CONTACTS (NORMALLY CLOSED) AS MAIN CONTACT	0
NUMBER OF MAIN CONTACTS (NORMALLY OPEN CONTACT)	4
RATED BREAKING CAPACITY AT 220/230 V	90 A
RATED BREAKING CAPACITY AT 380/400 V	90 A
RATED BREAKING CAPACITY AT 500 V	64 A
RATED BREAKING CAPACITY AT 660/690 V	42 A
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MAX	110 V
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MIN	110 V
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MAX	120 V

RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MIN	120 V
OVERVOLTAGE CATEGORY	III
CONTROL CIRCUIT RELIABILITY	< 2 λ, < 1 failure at 100,000,000 Operations (at U _e = 24 V DC, Umin = 17 V, Imin = 5.4 mA)
DUTY FACTOR	100 %
CHANGEOVER TIME	16 - 21 ms
LIFESPAN, MECHANICAL	20,000,000 Operations 150,000 Operations (at 240 V, DC, L/R = 50 ms: 2 contacts in series 0.5 A) 200,000 Operations (at 240 V, AC-15) 7,000,000 Operations (Coil 50/60 Hz)
PICK-UP VOLTAGE	0.8 - 1.1 V AC x Uc (voltage tolerance - single-voltage coil 50 Hz and dual-voltage coil 50 Hz, 60 Hz) 1.1 V AC x Uc (voltage tolerance - dual frequency coil 50/60 Hz)
POWER CONSUMPTION, PICK-UP, 50 HZ	22 W, AC, Single-frequency coil 50 Hz and Dual- frequency coil 50/60 Hz 25 VA, AC, Single- frequency coil 50 Hz and Dual-frequency coil 50/60 Hz
SAFE ISOLATION	300 V AC, Between the contacts, According to EN 61140 300 V AC, Between coil and contacts, According to EN 61140 300 V AC, Between auxiliary contacts, According to EN 61140 300 V AC, Between coil and auxiliary contacts, According to EN 61140
POWER CONSUMPTION, PICK-UP, 60 HZ	25 VA, AC, Single- frequency coil 50 Hz and Dual-frequency coil 50/60 Hz 22 W, AC, Single-frequency coil 50 Hz and Dual- frequency coil 50/60 Hz
SCREW SIZE	M3.5, Terminal screw
POWER CONSUMPTION, SEALING, 50 HZ	4.6 VA, AC, Single- frequency coil 50 Hz and

	Dual-frequency coil 50/60 Hz 1.8 W, AC, Single- frequency coil 50 Hz and Dual-frequency coil 50/60 Hz
POWER CONSUMPTION, SEALING, 60 HZ	1.8 W, AC, Single- frequency coil 50 Hz and Dual-frequency coil 50/60 Hz
RATED OPERATIONAL CURRENT (IE)	1.5 A at 100 V, DC L/R ≤ 15 ms (with 3 contacts in series) 2.5 A at 60 V, DC L/R ≤ 15 ms (with 2 contacts in series) 2.5 A at 24 V, DC L/R ≤ 15 ms (with 1 contact in series) 0.5 A at 220 V, DC L/R ≤ 15 ms (with 3 contacts in series)
TERMINAL CAPACITY (FLEXIBLE WITH FERRULE)	2 x (0.75 - 1.5) mm ² 1 x (0.75 - 1.5) mm ²
SHOCK RESISTANCE	10 g, N/O main contact, Basic unit with auxiliary contact module, Mechanical, according to IEC/EN 60068-2-27, Half- sinusoidal shock 10 ms 10 g, N/O main contact, Basic unit without auxiliary contact module, Mechanical, according to IEC/EN 60068-2-27, Half- sinusoidal shock 10 ms 20 g, N/O auxiliary contact, Basic unit with auxiliary contact module, Mechanical, according to IEC/EN 60068-2-27, Half- sinusoidal shock 10 ms 20 g, N/C auxiliary contact, Basic unit with auxiliary contact module, Mechanical, according to IEC/EN 60068-2-27, Half- sinusoidal shock 10 ms
TERMINAL CAPACITY (SOLID)	1 x (0.75 - 2.5) mm ² 2 x (0.75 - 2.5) mm ²
TERMINAL CAPACITY (SOLID/STRANDED AWG)	18 - 14
SWITCHING CAPACITY (MAIN CONTACTS, GENERAL USE)	15 A, Maximum motor rating (UL/CSA)
TIGHTENING TORQUE	1.2 Nm, Screw terminals

RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MAX	0 V
RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MIN	0 V
RATED INSULATION VOLTAGE (UI)	690 V
RATED MAKING CAPACITY UP TO 440 V (COS PHI TO IEC/EN 60947)	110 A
RATED OPERATIONAL CURRENT (IE) AT AC-1, 380 V, 400 V, 415 V	22 A
RATED OPERATIONAL CURRENT (IE) AT AC-15, 220 V, 230 V, 240 V	6 A
RATED OPERATIONAL CURRENT (IE) AT AC-15, 380 V, 400 V, 415 V	3 A
RATED OPERATIONAL CURRENT (IE) AT AC-15, 500 V	1.5 A
RATED OPERATIONAL CURRENT (IE) AT AC-3, 220 V, 230 V, 240 V	9 A
RATED OPERATIONAL CURRENT (IE) AT AC-3, 380 V, 400 V, 415 V	9 A
RATED OPERATIONAL CURRENT (IE) AT AC-3, 440 V	9 A
RATED OPERATIONAL CURRENT (IE) AT AC-3, 500 V	6.4 A
RATED OPERATIONAL CURRENT (IE) AT AC-3, 660 V, 690 V	4.8 A
RATED OPERATIONAL CURRENT (IE) AT AC-4, 220 V, 230 V, 240 V	6.6 A
RATED OPERATIONAL CURRENT (IE) AT AC-4, 400 V	6.6 A
RATED OPERATIONAL CURRENT (IE) AT AC-4, 440 V	6.6 A
RATED OPERATIONAL CURRENT (IE) AT AC-4, 500 V	5 A
RATED OPERATIONAL CURRENT (IE) AT AC-4,	3.4 A

660 V, 690 V	
RATED OPERATIONAL CURRENT (IE) AT DC-1, 110 V	20 A
RATED OPERATIONAL CURRENT (IE) AT DC-1, 12 V	20 A
RATED OPERATIONAL CURRENT (IE) AT DC-1, 220 V	20 A
RATED OPERATIONAL CURRENT (IE) AT DC-1, 24 V	20 A
RATED OPERATIONAL CURRENT (IE) AT DC-1, 60 V	20 A
RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)	22 A
RATED OPERATIONAL POWER AT AC-3, 240 V, 50 HZ	2.5 kW
RATED OPERATIONAL POWER AT AC-3, 380/400 V, 50 HZ	4 kW
RATED OPERATIONAL POWER AT AC-3, 415 V, 50 HZ	4.3 kW
RATED OPERATIONAL POWER AT AC-4, 220/230 V, 50 HZ	1.5 kW
RATED OPERATIONAL POWER AT AC-4, 240 V, 50 HZ	1.8 kW
RATED OPERATIONAL POWER AT AC-4, 380/400 V, 50 HZ	3 kW
RATED OPERATIONAL POWER AT AC-4, 415 V, 50 HZ	3.1 kW
RATED OPERATIONAL POWER AT AC-4, 440 V, 50 HZ	3.3 kW
RATED OPERATIONAL POWER AT AC-4, 500 V, 50 HZ	3 kW
RATED OPERATIONAL POWER AT AC-4, 660/690 V, 50 HZ	3 kW
RATED OPERATIONAL	3.7 kW
POWER (NEMA)	
RATED OPERATIONAL	690 V

RESISTANCE PER POLE STATIC HEAT DISSIPATION, NON- CURRENT-DEPENDENT PVS STRIPPING LENGTH (MAIN CABLE) SWITCHING TIME (AC OPERATED, MAKE CONTACTS, CLOSING DELAY) - MAX SWITCHING TIME (AC OPERATED, MAKE CONTACTS, OPENING DELAY) - MIN SWITCHING TIME (AC OPERATED, MAKE CONTACTS, OPENING DELAY) - MIN SWITCHING TIME (AC OPERATED, MAKE CONTACTS, OPENING DELAY) - MIN SHORT-CIRCUIT CURRENT RATING (BASIC RATING) SHORT-CIRCUIT PROTECTION SHORT-CIRCUIT PROTECTION RATING (TYPE 1 COORDINATION) AT 500 V CONVENTIONAL THERMAL CURRENT ITH AT 40°C (3-POLE, OPEN) CONVENTIONAL CONVENTIONAL CONVENTIONAL CONVENTIONAL 20 A	VOLTACE (LIE) AT AC	
STATIC HEAT DISSIPATION, NON- CURRENT-DEPENDENT PVS STRIPPING LENGTH (MAIN CABLE) SWITCHING TIME (AC OPERATED, MAKE CONTACTS, CLOSING DELAY) - MAX SWITCHING TIME (AC OPERATED, MAKE CONTACTS, CLOSING DELAY) - MIN SWITCHING TIME (AC OPERATED, MAKE CONTACTS, OPENING DELAY) - MIN SWITCHING TIME (AC OPERATED, MAKE CONTACTS, OPENING DELAY) - MAX SWITCHING TIME (AC OPERATED, MAKE CONTACTS, OPENING DELAY) - MIN SHORT-CIRCUIT CURRENT RATING (BASIC RATING) SHORT-CIRCUIT PROTECTION SHORT-CIRCUIT PROTECTION SHORT-CIRCUIT PROTECTION RATING (TYPE 1 COORDINATION) AT 500 V CONVENTIONAL THERMAL CURRENT ITH AT 40°C (3-POLE, OPEN) SHORT-CIRCUIT PROTECTION AT 100 CONVENTIONAL THERMAL CURRENT ITH AT 40°C (3-POLE, OPEN) 1.8 W SHORT 21 ms 21 ms 21 ms 5 km 4 ms 5 km 5 km 5 km 5 km 6 A g/gL, Max. Fuse 500V, Auxiliary contacts, Short-circuit rating without welding PKZMO-4, Maximum overcurrent protective device, Short-circuit rating without welding PKZMO-4, Maximum overcurrent protective device, Short-circuit rating without welding SHORT-CIRCUIT PROTECTION RATING (TYPE 2 COORDINATION) AT 500 V CONVENTIONAL THERMAL CURRENT ITH AT 40°C (3-POLE, OPEN)	VOLTAGE (UE) AT AC - MAX	
DISSIPATION, NON- CURRENT-DEPENDENT PVS STRIPPING LENGTH (MAIN CABLE) SWITCHING TIME (AC OPERATED, MAKE CONTACTS, CLOSING DELAY) - MAX SWITCHING TIME (AC OPERATED, MAKE CONTACTS, CLOSING DELAY) - MIN SWITCHING TIME (AC OPERATED, MAKE CONTACTS, OPENING DELAY) - MIN SWITCHING TIME (AC OPERATED, MAKE CONTACTS, OPENING DELAY) - MAX SWITCHING TIME (AC OPERATED, MAKE CONTACTS, OPENING DELAY) - MIN SHORT-CIRCUIT CURRENT RATING (BASIC RATING) SHORT-CIRCUIT PROTECTION SHORT-CIRCUIT PROTECTION SHORT-CIRCUIT PROTECTION RATING (TYPE 1 COORDINATION) AT 500 V CONVENTIONAL THERMAL CURRENT ITH AT 40°C (3-POLE, OPEN) SWITCHING TIME (AC OPERATED, MAKE CONTACTS, OPENING DELAY) - MIN 5 kms 5 kA, SCCR (UL/CSA) 45 A, max. Fuse, SCCR (UL/CSA)	RESISTANCE PER POLE	9.18 mΩ
(MAIN CABLE) 8 mm SWITCHING TIME (AC OPERATED, MAKE CONTACTS, CLOSING DELAY) - MAX 21 ms SWITCHING TIME (AC OPERATED, MAKE CONTACTS, CLOSING DELAY) - MIN 14 ms SWITCHING TIME (AC OPERATED, MAKE CONTACTS, OPENING DELAY) - MAX 18 ms SWITCHING TIME (AC OPERATED, MAKE CONTACTS, OPENING DELAY) - MIN 5 kA, SCCR (UL/CSA) 45 A, max. Fuse, SCCR (UL/CSA) 45 A, max. Fuse, SCCR (UL/CSA) SHORT-CIRCUIT CURRENT RATING (BASIC RATING) 6 A gG/gL, Max. Fuse 500V, Auxiliary contacts, Short-circuit rating without welding 10 A fast, Max. Fuse 500V, Auxiliary contacts, Short-circuit rating without welding PKZMO-4, Maximum overcurrent protective device, Short-circuit protection only, Auxiliary contacts, Short-circuit rating without welding SHORT-CIRCUIT PROTECTION RATING (TYPE 1 COORDINATION) AT 500 V 20 A gG/gL CONVENTIONAL THERMAL CURRENT ITH AT 40°C (3-POLE, OPEN) 22 A	DISSIPATION, NON- CURRENT-DEPENDENT	1.8 W
OPERATED, MAKE CONTACTS, CLOSING DELAY) - MAX SWITCHING TIME (AC OPERATED, MAKE CONTACTS, CLOSING DELAY) - MIN SWITCHING TIME (AC OPERATED, MAKE CONTACTS, OPENING DELAY) - MAX SWITCHING TIME (AC OPERATED, MAKE CONTACTS, OPENING DELAY) - MAX SWITCHING TIME (AC OPERATED, MAKE CONTACTS, OPENING DELAY) - MIN SHORT-CIRCUIT CURRENT RATING (BASIC RATING) SHORT-CIRCUIT PROTECTION SHORT-CIRCUIT PROTECTION SHORT-CIRCUIT PROTECTION RATING (TYPE 1 COORDINATION) AT 500 V CONVENTIONAL THERMAL CURRENT ITH AT 40°C (3-POLE, OPEN) 14 ms 14 ms 14 ms 15 kms 18 ms 5 kA, SCCR (UL/CSA) 45 A, max. Fuse, SCCR (UL/CSA) 45 A, max. Fuse 500V, Auxiliary contacts, Short-circuit rating without welding PKZMO-4, Maximum overcurrent protective device, Short-circuit rating without welding SHORT-CIRCUIT PROTECTION RATING (TYPE 1 COORDINATION) AT 500 V CONVENTIONAL THERMAL CURRENT ITH AT 40°C (3-POLE, OPEN)		8 mm
OPERATED, MAKE CONTACTS, CLOSING DELAY) - MIN SWITCHING TIME (AC OPERATED, MAKE CONTACTS, OPENING DELAY) - MAX SWITCHING TIME (AC OPERATED, MAKE CONTACTS, OPENING DELAY) - MIN SHORT-CIRCUIT CURRENT RATING (BASIC RATING) SHORT-CIRCUIT PROTECTION SHORT-CIRCUIT PROTECTION SHORT-CIRCUIT PROTECTION SHORT-CIRCUIT PROTECTION RATING (TYPE 1 COORDINATION) AT 500 V CONVENTIONAL THERMAL CURRENT ITH AT 40°C (3-POLE, OPEN) 18 ms 18 ms 8 ms 6 M gG/gL, Max. Fuse CUL/CSA) 45 A, max. Fuse, SCCR (UL/CSA) 45 A, max. Fuse, SCCR (UL/CSA) 45 A, max. Fuse, SCCR (UL/CSA) 45 A, max. Fuse 500V, Auxiliary contacts, Short-circuit rating without welding PKZMO-4, Maximum overcurrent protective device, Short-circuit protection only, Auxiliary contacts, Short-circuit rating without welding SHORT-CIRCUIT PROTECTION RATING (TYPE 2 COORDINATION) AT 500 V CONVENTIONAL THERMAL CURRENT ITH AT 40°C (3-POLE, OPEN)	OPERATED, MAKE CONTACTS, CLOSING	21 ms
OPERATED, MAKE CONTACTS, OPENING DELAY) - MAX SWITCHING TIME (AC OPERATED, MAKE CONTACTS, OPENING DELAY) - MIN SHORT-CIRCUIT CURRENT RATING (BASIC RATING) SHORT-CIRCUIT PROTECTION SHORT-CIRCUIT PROTECTION RATING (TYPE 1 COORDINATION) AT 500 V CONVENTIONAL THERMAL CURRENT ITH AT 40°C (3-POLE, OPEN) SW ms S ms S ms S k, SCCR (UL/CSA) 45 A, max. Fuse 500V, Auxiliary contacts, Short-circuit rating without welding PKZMO-4, Maximum overcurrent protective device, Short-circuit protection only, Auxiliary contacts, Short-circuit rating without welding 10 A gG/gL 10 A gG/gL	OPERATED, MAKE CONTACTS, CLOSING	14 ms
OPERATED, MAKE CONTACTS, OPENING DELAY) - MIN SHORT-CIRCUIT CURRENT RATING (BASIC RATING) SHORT-CIRCUIT PROTECTION SHORT-CIRCUIT PROTECTION SHORT-CIRCUIT PROTECTION RATING (TYPE 1 COORDINATION) AT 500 V CONVENTIONAL THERMAL CURRENT ITH AT 40°C (3-POLE, OPEN) SHORT-CIRCUIT, OF AND	OPERATED, MAKE CONTACTS, OPENING	18 ms
SHORT-CIRCUIT CURRENT RATING (BASIC RATING) 6 A gG/gL, Max. Fuse 500V, Auxiliary contacts, Short-circuit rating without welding 10 A fast, Max. Fuse 500V, Auxiliary contacts, Short-circuit rating without welding PKZM0-4, Maximum overcurrent protective device, Short-circuit protection only, Auxiliary contacts, Short-circuit protection only, Auxiliary contacts, Short-circuit rating without welding SHORT-CIRCUIT PROTECTION RATING (TYPE 1 COORDINATION) AT 500 V SHORT-CIRCUIT PROTECTION RATING (TYPE 2 COORDINATION) AT 500 V CONVENTIONAL THERMAL CURRENT ITH AT 40°C (3-POLE, OPEN) 45 A, max. Fuse, SCCR (UL/CSA) 6 A gG/gL, Max. Fuse 500V, Auxiliary contacts, Short-circuit rating without welding 20 A gG/gL 10 A gG/gL	OPERATED, MAKE CONTACTS, OPENING	8 ms
Auxiliary contacts, Short-circuit rating without welding 10 A fast, Max. Fuse 500V, Auxiliary contacts, Short-circuit rating without welding PKZM0-4, Maximum overcurrent protective device, Short-circuit protection only, Auxiliary contacts, Short-circuit rating without welding SHORT-CIRCUIT PROTECTION RATING (TYPE 1 COORDINATION) AT 500 V SHORT-CIRCUIT PROTECTION RATING (TYPE 2 COORDINATION) AT 500 V CONVENTIONAL THERMAL CURRENT ITH AT 40°C (3-POLE, OPEN) Auxiliary contacts, Short-circuit rating without welding PKZM0-4, Maximum overcurrent protective device, Short-circuit rating without welding 10 A gG/gL 10 A gG/gL		45 A, max. Fuse, SCCR
PROTECTION RATING (TYPE 1 COORDINATION) AT 500 V SHORT-CIRCUIT PROTECTION RATING (TYPE 2 COORDINATION) AT 500 V CONVENTIONAL THERMAL CURRENT ITH AT 40°C (3-POLE, OPEN) 20 A gG/gL 10 A gG/gL		Auxiliary contacts, Short-circuit rating without welding 10 A fast, Max. Fuse 500V, Auxiliary contacts, Short-circuit rating without welding PKZM0-4, Maximum overcurrent protective device, Short-circuit protection only, Auxiliary contacts, Short-circuit
PROTECTION RATING (TYPE 2 COORDINATION) AT 500 V CONVENTIONAL THERMAL CURRENT ITH AT 40°C (3-POLE, OPEN)	PROTECTION RATING (TYPE 1 COORDINATION)	20 A gG/gL
THERMAL CURRENT ITH 22 A AT 40°C (3-POLE, OPEN)	PROTECTION RATING (TYPE 2 COORDINATION)	10 A gG/gL
CONVENTIONAL 20 A	THERMAL CURRENT ITH	22 A

THERMAL CURRENT ITH AT 50°C (3-POLE, OPEN)	
RATED OPERATIONAL POWER AT AC-3, 440 V, 50 HZ	4.6 kW
RATED OPERATIONAL POWER AT AC-3, 500 V, 50 HZ	4 kW
RATED OPERATIONAL POWER AT AC-3, 690 V, 50 HZ	4 kW
ACTUATING VOLTAGE	110 V 50 Hz, 120 V 60 Hz
ALTITUDE	Max. 2000 m
OPERATING VOLTAGE AT AC, 50 HZ - MIN	24 V
OPERATING VOLTAGE AT AC, 50 HZ - MAX	690 V
OPERATING VOLTAGE AT AC, 60 HZ - MIN	24 V
OPERATING VOLTAGE AT AC, 60 HZ - MAX	690 V

PROJECT NAME: PROJECT NUMBER: PREPARED BY: DATE:



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