Specifications

Eaton 013194

Eaton Moeller® series DILEM Contactor, 220 V DC, 4 pole, 380 V 400 V, 4 kW, Screw terminals, DC operation

PRODUCT NAMEEaton Moeller® series DILEM Mini contactorCATALOG NUMBER013194MODEL CODEDILEM4-G(220VDC)EAN4015080131946PRODUCT LENGTH/DEPTH54 mmPRODUCT HEIGHT58 mmPRODUCT WIDTH45 mmPRODUCT WEIGHT0.206 kgUL Category Control No.: NLDX UL 508 UL CSA-C22.2 No. 14-05 VDE 0660 IEC/EN 60947-4-1 CSA CSA CIASS No.: 3211-04 CSA File No.: 012528 IEC/EN 60947 UL File No.: E29096 CECATALOG NOTESAlso tested according to AC-3e.GLOBAL CATALOG013194	General specification	ns
MODEL CODE EAN 4015080131946 PRODUCT LENGTH/DEPTH PRODUCT HEIGHT PRODUCT WIDTH 45 mm PRODUCT WEIGHT 0.206 kg UL Category Control No.: NLDX UL 508 UL CSA-C22.2 No. 14-05 VDE 0660 IEC/EN 60947-4-1 CSA CSA Class No.: 3211-04 CSA File No.: 012528 IEC/EN 60947 UL File No.: E29096 CE CATALOG NOTES Also tested according to AC-3e.	PRODUCT NAME	
PRODUCT LENGTH/DEPTH PRODUCT HEIGHT 58 mm PRODUCT WIDTH 45 mm PRODUCT WEIGHT 0.206 kg UL Category Control No.: NLDX UL 508 UL CSA-C22.2 No. 14-05 VDE 0660 IEC/EN 60947-4-1 CSA CSA Class No.: 3211-04 CSA File No.: 012528 IEC/EN 60947 UL File No.: E29096 CE CATALOG NOTES Also tested according to AC-3e.	CATALOG NUMBER	013194
PRODUCT LENGTH/DEPTH PRODUCT HEIGHT PRODUCT WIDTH 45 mm PRODUCT WEIGHT 0.206 kg UL Category Control No.: NLDX UL 508 UL CSA-C22.2 No. 14-05 VDE 0660 IEC/EN 60947-4-1 CSA CSA Class No.: 3211-04 CSA File No.: 012528 IEC/EN 60947 UL File No.: E29096 CE CATALOG NOTES Also tested according to AC-3e.	MODEL CODE	DILEM4-G(220VDC)
PRODUCT HEIGHT PRODUCT WIDTH PRODUCT WEIGHT O.206 kg UL Category Control No.: NLDX UL 508 UL CSA-C22.2 No. 14-05 VDE 0660 IEC/EN 60947-4-1 CSA CSA Class No.: 3211-04 CSA File No.: 012528 IEC/EN 60947 UL File No.: E29096 CE CATALOG NOTES Also tested according to AC-3e.	EAN	4015080131946
PRODUCT WIDTH 45 mm PRODUCT WEIGHT 0.206 kg UL Category Control No.:		54 mm
## Occupance Occ	PRODUCT HEIGHT	58 mm
UL Category Control No.: NLDX UL 508 UL CSA-C22.2 No. 14-05 VDE 0660 IEC/EN 60947-4-1 CSA CSA Class No.: 3211-04 CSA File No.: 012528 IEC/EN 60947 UL File No.: E29096 CE CATALOG NOTES Also tested according to AC-3e.	PRODUCT WIDTH	45 mm
NLDX	PRODUCT WEIGHT	0.206 kg
AC-3e.	CERTIFICATIONS	NLDX UL 508 UL CSA-C22.2 No. 14-05 VDE 0660 IEC/EN 60947-4-1 CSA CSA Class No.: 3211-04 CSA File No.: 012528 IEC/EN 60947 UL File No.: E29096
GLOBAL CATALOG 013194	CATALOG NOTES	_
	GLOBAL CATALOG	013194



Product specification	S
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.
10.2.6 MECHANICAL IMPACT	Does not apply, since the entire switchgear needs to be evaluated.

Resources	
CATALOGS	Product Range Catalog Switching and protecting motors
	eaton-product-overview- for-machinery-catalogue- ca08103003zen-en-us.pdf
	eaton-contactors-short- time-loading-dilm- characteristic-curve.eps
	eaton-contactors-switch-dilm-characteristic-curve-002.eps
CHARACTERISTIC CURVE	eaton-contactors- component-dilm- characteristic-curve- 003.eps
	eaton-contactors-switch- dilm-characteristic- curve.eps
DECLARATIONS OF	DA-DC-00004788.pdf
CONFORMITY	DA-DC-00004812.pdf
	eaton-contactors-diler-dimensions-005.eps
	eaton-contactors-diler- dimensions-004.eps
DRAWINGS	eaton-contactors-dilem- dimensions.eps
	eaton-contactors-3d- drawing-019.eps
	eaton-tripping-devices- mounting-diler-contactor- relay-symbol.eps
ECAD MODEL	eaton-dilem-mini- contactor-eplan- 013194.edz
INSTALLATION INSTRUCTIONS	<u>IL03407009Z</u>
MCAD MODEL	DA-CS-dil em
	DA-CD-dil_em
SYSTEM OVERVIEW	eaton-contactors- accessory-dilem-system- overview.eps

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	ls the panel builder's responsibility.
10.8 CONNECTIONS FOR EXTERNAL CONDUCTORS	Is 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-3: Normal AC induction motors: starting, switch off during running AC-1: Non-inductive or slightly inductive loads, resistance furnaces AC-4: Normal AC induction motors: starting, plugging, reversing, inching
CONNECTION	Screw terminals
AMBIENT OPERATING TEMPERATURE - MAX	50 °C
AMBIENT OPERATING TEMPERATURE - MIN	-25 °C

WIRING DIAGRAMS <u>eaton-contactors-contact-dilem-wiring-diagram.eps</u>

AMBIENT OPERATING TEMPERATURE (ENCLOSED) - MAX	40 °C
AMBIENT OPERATING TEMPERATURE (ENCLOSED) - MIN	-25 °C
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 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	7.17 W
HEAT DISSIPATION CAPACITY PDISS	0 W
HEAT DISSIPATION PER POLE, CURRENT- DEPENDENT PVID	1.79 W

SWITCHING TIME (AC OPERATED, N/O, WITH AUXILIARY CONTACT MODULE, CLOSING DELAY)	70 ms
SWITCHING TIME (DC OPERATED, MAKE CONTACTS, CLOSING DELAY) - MAX	35 ms
SWITCHING TIME (DC OPERATED, MAKE CONTACTS, CLOSING DELAY) - MIN	26 ms
SWITCHING TIME (DC OPERATED, MAKE CONTACTS, OPENING DELAY) - MAX	25 ms
SWITCHING TIME (DC OPERATED, MAKE CONTACTS, OPENING DELAY) - MIN	15 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)
PROTECTION ARCING TIME	proof, Protection against direct contact when actuated from front (EN
	proof, Protection against direct contact when actuated from front (EN 50274)
ARCING TIME ELECTRICAL CONNECTION TYPE OF	proof, Protection against direct contact when actuated from front (EN 50274) 12 ms at 690 V AC
ARCING TIME ELECTRICAL CONNECTION TYPE OF MAIN CIRCUIT	proof, Protection against direct contact when actuated from front (EN 50274) 12 ms at 690 V AC Screw connection 0.8 x 5.5/1 x 6 mm, Terminal screw, Standard screwdriver 2, Terminal screw, Pozidriv
ARCING TIME ELECTRICAL CONNECTION TYPE OF MAIN CIRCUIT SCREWDRIVER SIZE	proof, Protection against direct contact when actuated from front (EN 50274) 12 ms at 690 V AC Screw connection 0.8 x 5.5/1 x 6 mm, Terminal screw, Standard screwdriver 2, Terminal screw, Pozidriv screwdriver
ARCING TIME ELECTRICAL CONNECTION TYPE OF MAIN CIRCUIT SCREWDRIVER SIZE VOLTAGE TYPE	proof, Protection against direct contact when actuated from front (EN 50274) 12 ms at 690 V AC Screw connection 0.8 x 5.5/1 x 6 mm, Terminal screw, Standard screwdriver 2, Terminal screw, Pozidriv screwdriver DC
ARCING TIME ELECTRICAL CONNECTION TYPE OF MAIN CIRCUIT SCREWDRIVER SIZE VOLTAGE TYPE DEGREE OF PROTECTION	proof, Protection against direct contact when actuated from front (EN 50274) 12 ms at 690 V AC Screw connection 0.8 x 5.5/1 x 6 mm, Terminal screw, Standard screwdriver 2, Terminal screw, Pozidriv screwdriver DC IP20 As required (except vertical with terminals

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	0 V
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MIN	0 V
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MAX	0 V
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MIN	0 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	40 - 50 ms
LIFESPAN, MECHANICAL	20,000,000 Operations 200,000 Operations (at 240 V, AC-15) 150,000 Operations (at 240 V, DC, L/R = 50 ms: 2 contacts in series 0.5 A)
PICK-UP VOLTAGE	0.85 - 1.1 V DC x Uc
SAFE ISOLATION	300 V AC, Between the contacts, According to EN 61140 300 V AC, Between coil and auxiliary contacts, According to EN 61140 300 V AC, Between auxiliary contacts, According to EN 61140

	300 V AC, Between coil and contacts, According to EN 61140
SCREW SIZE	M3.5, Terminal screw
RATED OPERATIONAL CURRENT (IE)	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) 1.5 A at 100 V, DC L/R ≤ 15 ms (with 3 contacts 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	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 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/C auxiliary 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 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 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)
POWER CONSUMPTION	2.3 VA/W at DC (Pick- up/Sealing power) Smoothed DC voltage or

	three-phase bridge rectifier
TIGHTENING TORQUE	1.2 Nm, Screw terminals
RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MAX	220 V
RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MIN	220 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,	6.6 A

RATED OPERATIONAL CURRENT (IE) AT AC-4, 500 V RATED OPERATIONAL CURRENT (IE) AT AC-4, 660 V, 690 V RATED OPERATIONAL CURRENT (IE) AT DC-1, 110 V RATED OPERATIONAL CURRENT (IE) AT DC-1, 12 20 A V RATED OPERATIONAL CURRENT (IE) AT DC-1, 220 A RATED OPERATIONAL CURRENT (IE) AT DC-1, 220 V RATED OPERATIONAL CURRENT (IE) AT DC-1, 24 V RATED OPERATIONAL CURRENT (IE) AT DC-1, 20 A V RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN) RATED OPERATIONAL POWER AT AC-3, 240 V, 50 HZ RATED OPERATIONAL POWER AT AC-3, 415 V, 50 HZ RATED OPERATIONAL POWER AT AC-4, 220/230 V, 50 HZ RATED OPERATIONAL POWER AT AC-4, 240 V, 50 HZ RATED OPERATIONAL POWER AT AC-4, 240 V, 50 HZ RATED OPERATIONAL POWER AT AC-4, 240 V, 50 HZ RATED OPERATIONAL POWER AT AC-4, 240 V, 50 HZ RATED OPERATIONAL POWER AT AC-4, 380/400 V, 50 HZ RATED OPERATIONAL POWER AT AC-4, 415 V, 50 HZ RATED OPERATIONAL POWER AT AC-4, 415 V, 50 HZ RATED OPERATIONAL POWER AT AC-4, 440		
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CURRENT (IE) AT DC-1, 12 V A 110 V RATED OPERATIONAL CURRENT (IE) AT DC-1, 12 20 A V RATED OPERATIONAL CURRENT (IE) AT DC-1, 24 20 A V RATED OPERATIONAL CURRENT (IE) AT DC-1, 24 V RATED OPERATIONAL CURRENT (IE) AT DC-1, 24 V RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN) RATED OPERATIONAL POWER AT AC-3, 240 V, 50 HZ RATED OPERATIONAL POWER AT AC-3, 380/400 V, 50 HZ RATED OPERATIONAL POWER AT AC-3, 415 V, 50 HZ RATED OPERATIONAL POWER AT AC-4, 220/230 V, 50 HZ RATED OPERATIONAL POWER AT AC-4, 240 V, 50 HZ RATED OPERATIONAL POWER AT AC-4, 240 V, 50 HZ RATED OPERATIONAL POWER AT AC-4, 240 V, 50 HZ RATED OPERATIONAL POWER AT AC-4, 240 V, 50 HZ RATED OPERATIONAL POWER AT AC-4, 240 V, 50 HZ RATED OPERATIONAL POWER AT AC-4, 380/400 V, 50 HZ RATED OPERATIONAL POWER AT AC-4, 415 V, 50 HZ RATED OPERATIONAL POWER AT AC-4, 440 V, 50 HZ	CURRENT (IE) AT AC-4,	3.4 A
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CURRENT FOR SPECIFIED HEAT DISSIPATION (IN) RATED OPERATIONAL POWER AT AC-3, 240 V, 50 HZ RATED OPERATIONAL POWER AT AC-3, 380/400 V, 50 HZ RATED OPERATIONAL POWER AT AC-3, 415 V, 50 HZ RATED OPERATIONAL POWER AT AC-4, 220/230 V, 50 HZ RATED OPERATIONAL POWER AT AC-4, 240 V, 50 HZ RATED OPERATIONAL POWER AT AC-4, 380/400 V, 50 HZ RATED OPERATIONAL POWER AT AC-4, 415 V, 50 HZ RATED OPERATIONAL POWER AT AC-4, 415 V, 50 HZ RATED OPERATIONAL POWER AT AC-4, 440 V, 50 HZ RATED OPERATIONAL POWER AT AC-4, 440 V, 50 HZ RATED OPERATIONAL POWER AT AC-4, 440 V, 50 HZ RATED OPERATIONAL POWER AT AC-4, 440 V, 50 HZ RATED OPERATIONAL POWER AT AC-4, 440 V, 50 HZ	CURRENT (IE) AT DC-1, 60	20 A
POWER AT AC-3, 240 V, 50 HZ RATED OPERATIONAL POWER AT AC-3, 380/400 V, 50 HZ RATED OPERATIONAL POWER AT AC-3, 415 V, 50 HZ RATED OPERATIONAL POWER AT AC-4, 220/230 V, 50 HZ RATED OPERATIONAL POWER AT AC-4, 240 V, 50 HZ RATED OPERATIONAL POWER AT AC-4, 380/400 V, 50 HZ RATED OPERATIONAL POWER AT AC-4, 415 V, 50 HZ RATED OPERATIONAL POWER AT AC-4, 415 V, 50 HZ RATED OPERATIONAL POWER AT AC-4, 440 V, 50 HZ RATED OPERATIONAL POWER AT AC-4, 440 V, 50 HZ RATED OPERATIONAL POWER AT AC-4, 440 V, 50 HZ RATED OPERATIONAL POWER AT AC-4, 440 V, 50 HZ	CURRENT FOR SPECIFIED	22 A
POWER AT AC-3, 380/400 4 kW V, 50 HZ RATED OPERATIONAL POWER AT AC-3, 415 V, 50 4.3 kW HZ RATED OPERATIONAL POWER AT AC-4, 220/230 1.5 kW V, 50 HZ RATED OPERATIONAL POWER AT AC-4, 240 V, 50 1.8 kW HZ RATED OPERATIONAL POWER AT AC-4, 380/400 3 kW V, 50 HZ RATED OPERATIONAL POWER AT AC-4, 415 V, 50 3.1 kW HZ RATED OPERATIONAL POWER AT AC-4, 440 V, 50 3.3 kW HZ	POWER AT AC-3, 240 V, 50	2.5 kW
POWER AT AC-3, 415 V, 50 HZ RATED OPERATIONAL POWER AT AC-4, 220/230 V, 50 HZ RATED OPERATIONAL POWER AT AC-4, 240 V, 50 HZ RATED OPERATIONAL POWER AT AC-4, 380/400 V, 50 HZ RATED OPERATIONAL POWER AT AC-4, 415 V, 50 HZ RATED OPERATIONAL POWER AT AC-4, 440 V, 50 HZ RATED OPERATIONAL POWER AT AC-4, 440 V, 50 HZ RATED OPERATIONAL POWER AT AC-4, 440 V, 50 HZ	POWER AT AC-3, 380/400	4 kW
POWER AT AC-4, 220/230 V, 50 HZ RATED OPERATIONAL POWER AT AC-4, 240 V, 50 HZ RATED OPERATIONAL POWER AT AC-4, 380/400 V, 50 HZ RATED OPERATIONAL POWER AT AC-4, 415 V, 50 HZ RATED OPERATIONAL POWER AT AC-4, 440 V, 50 HZ RATED OPERATIONAL POWER AT AC-4, 440 V, 50 HZ	POWER AT AC-3, 415 V, 50	4.3 kW
POWER AT AC-4, 240 V, 50 HZ RATED OPERATIONAL POWER AT AC-4, 380/400 V, 50 HZ RATED OPERATIONAL POWER AT AC-4, 415 V, 50 HZ RATED OPERATIONAL POWER AT AC-4, 440 V, 50 HZ 3.3 kW HZ	POWER AT AC-4, 220/230	1.5 kW
POWER AT AC-4, 380/400 3 kW V, 50 HZ RATED OPERATIONAL POWER AT AC-4, 415 V, 50 3.1 kW HZ RATED OPERATIONAL POWER AT AC-4, 440 V, 50 3.3 kW HZ	POWER AT AC-4, 240 V, 50	1.8 kW
POWER AT AC-4, 415 V, 50 3.1 kW HZ RATED OPERATIONAL POWER AT AC-4, 440 V, 50 3.3 kW HZ	POWER AT AC-4, 380/400	3 kW
POWER AT AC-4, 440 V, 50 3.3 kW HZ	POWER AT AC-4, 415 V, 50	3.1 kW
RATED OPERATIONAL 3 kW	POWER AT AC-4, 440 V, 50	3.3 kW
	RATED OPERATIONAL	3 kW

POWER AT AC-4, 500 V, 50 HZ	
RATED OPERATIONAL POWER AT AC-4, 660/690 V, 50 HZ	3 kW
RATED OPERATIONAL POWER (NEMA)	3.7 kW
RATED OPERATIONAL VOLTAGE (UE) AT AC - MAX	690 V
RESISTANCE PER POLE	7.86 mΩ
STATIC HEAT DISSIPATION, NON- CURRENT-DEPENDENT PVS	2.3 W
STRIPPING LENGTH (MAIN CABLE)	8 mm
SHORT-CIRCUIT CURRENT RATING (BASIC RATING)	45 A, max. Fuse, SCCR (UL/CSA) 5 kA, SCCR (UL/CSA)
SHORT-CIRCUIT PROTECTION	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 rating without welding
SHORT-CIRCUIT PROTECTION RATING (TYPE 1 COORDINATION) AT 500 V	20 A gG/gL
SHORT-CIRCUIT PROTECTION RATING (TYPE 2 COORDINATION) AT 500 V	10 A gG/gL
CONVENTIONAL THERMAL CURRENT ITH AT 40°C (3-POLE, OPEN)	22 A
CONVENTIONAL THERMAL CURRENT ITH AT 50°C (3-POLE, OPEN)	20 A
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	220 V DC
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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