Specifications

Photo is representative

Eaton 276728

Eaton Moeller® series DILM Contactor, 3 pole, 380 V 400 V 4 kW, 1 NC, 415 V 50 Hz, 480 V 60 Hz, AC operation, Screw terminals

PRODUCT NAMEEaton Moeller® series DILM contactorCATALOG NUMBER276728MODEL CODEDILM9-01(415V50HZ,480V60HZ)EAN4015082767280PRODUCT LENGTH/DEPTH68 mmPRODUCT WIDTH45 mmPRODUCT WEIGHT0.24 kgPRODUCT WEIGHT0.24 kgCERTIFICATIONSUL 508 CSA-C22.2 No. 14-05 VDE 0660 IEC/EN 60947 UL File No.: E29096 CSA File No.: 012528 IEC/EN 60947-4-1 UL Category Control No.: NLDX CSA Class No.: 2411-03, 3211-04 UL CE CSACATALOG NOTESContacts according to EN 50012GLOBAL CATALOG276728	General specifications		
MODEL CODE DILM9- 01(415V50HZ,480V60HZ) EAN 4015082767280 PRODUCT LENGTH/DEPTH 75 mm PRODUCT HEIGHT 68 mm PRODUCT WIDTH 45 mm PRODUCT WEIGHT 0.24 kg UL 508 CSA-C22.2 No. 14-05 VDE 0660 IEC/EN 60947 UL File No.: E29096 CSA File No.: 012528 IEC/EN 60947-4-1 UL Category Control No.: NLDX CSA Class No.: 2411-03, 3211-04 UL CE CSA CATALOG NOTES Contacts according to EN 50012	PRODUCT NAME		
## MODEL CODE 01(415V50HZ,480V60HZ) EAN	CATALOG NUMBER	276728	
PRODUCT LENGTH/DEPTH 75 mm PRODUCT HEIGHT 68 mm PRODUCT WIDTH 45 mm PRODUCT WEIGHT 0.24 kg UL 508 CSA-C22.2 No. 14-05 VDE 0660 IEC/EN 60947 UL File No.: E29096 CSA File No.: 012528 IEC/EN 60947-4-1 UL Category Control No.: NLDX CSA Class No.: 2411-03, 3211-04 UL CE CSA CATALOG NOTES Contacts according to EN 50012	MODEL CODE		
PRODUCT HEIGHT 68 mm	EAN	4015082767280	
PRODUCT WIDTH 45 mm PRODUCT WEIGHT 0.24 kg UL 508 CSA-C22.2 No. 14-05 VDE 0660 IEC/EN 60947 UL File No.: E29096 CSA File No.: 012528 IEC/EN 60947-4-1 UL Category Control No.: NLDX CSA Class No.: 2411-03, 3211-04 UL CE CSA CATALOG NOTES Contacts according to EN 50012		75 mm	
PRODUCT WEIGHT 0.24 kg UL 508 CSA-C22.2 No. 14-05 VDE 0660 IEC/EN 60947 UL File No.: E29096 CSA File No.: 012528 IEC/EN 60947-4-1 UL Category Control No.: NLDX CSA Class No.: 2411-03, 3211-04 UL UL CE CSA Contacts according to EN 50012	PRODUCT HEIGHT	68 mm	
UL 508	PRODUCT WIDTH	45 mm	
CSA-C22.2 No. 14-05 VDE 0660 IEC/EN 60947 UL File No.: E29096 CSA File No.: 012528 IEC/EN 60947-4-1 UL Category Control No.: NLDX CSA Class No.: 2411-03, 3211-04 UL CE CSA CATALOG NOTES CSA-C22.2 No. 14-05 VDE 0660 IEC/EN 60947 UL File No.: 629096 CSA File No.: 012528 IEC/EN 60947-4-1 UL Category Control No.: NLDX CSA Class No.: 2411-03, 3211-04 UL CE CSA	PRODUCT WEIGHT	0.24 kg	
50012	CERTIFICATIONS	CSA-C22.2 No. 14-05 VDE 0660 IEC/EN 60947 UL File No.: E29096 CSA File No.: 012528 IEC/EN 60947-4-1 UL Category Control No.: NLDX CSA Class No.: 2411-03, 3211-04 UL	
GLOBAL CATALOG 276728	CATALOG NOTES	_	
	GLOBAL CATALOG	276728	



ELECTRICAL CONNECTION TYPE FOR AUXILIARY- AND CONTROL-CURRENT CIRCUIT	Screw connection	CATALOGS
NUMBER OF POLES	Three-pole	
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.	CHARACTERISTIC CU
10.12 ELECTROMAGNETIC COMPATIBILITY	Is the panel builder's responsibility. The specifications for the switchgear must be observed.	DECLARATIONS OF CONFORMITY
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.	DRAWINGS
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)	Meets the product	ECAD MODEL
RADIATION	standard's requirements.	INSTALLATION INSTRUCTIONS
10.2.5 LIFTING	Does not apply, since the entire switchgear needs to be evaluated.	INSTALLATION VIDE
10.2.6 MECHANICAL IMPACT	Does not apply, since the entire switchgear needs to be evaluated.	MCAD MODEL

Resources	
	SmartWire-DT Catalog
CATALOGS	eaton-product-overview- for-machinery-catalogue- ca08103003zen-en-us.pdf
	Product Range Catalog Switching and protecting motors
	eaton-contactors- component-dilm- characteristic-curve- 003.eps
CHARACTERISTIC CURVE	eaton-contactors-switch- dilm-characteristic- curve.eps
	eaton-contactors-switch- dilm-characteristic-curve- 002.eps
DECLARATIONS OF	DA-DC-00004792.pdf
CONFORMITY	<u>DA-DC-00004810.pdf</u>
	eaton-contactors- mounting-dilm- dimensions-002.eps
	eaton-contactors- mounting-dilm- dimensions.eps
	<u>eaton-contactors-module-dilm-dimensions.eps</u>
DRAWINGS	eaton-contactors-frame-dilm-dimensions.eps
	eaton-contactors-module-dilm-dimensions-002.eps
	eaton-general-ie-ready- dilm-contactor- standards.eps
	eaton-contactors-dilm-3d-drawing-007.eps
ECAD MODEL	ETN.276728.edz
INSTALLATION INSTRUCTIONS	eaton-contactors-dila- dilm7-15-dilmp20- il03407013z.pdf
INSTALLATION VIDEOS	WIN-WIN with push-in technology
MCAD MODEL	DA-CD-dil m7 15

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	Is the panel builder's responsibility.
10.9.4 TESTING OF ENCLOSURES MADE OF INSULATING MATERIAL	Is the panel builder's responsibility.
FITTED WITH:	Mirror contact
OPERATING FREQUENCY	9000 mechanical Operations/h (AC operated)
POLLUTION DEGREE	3
CLIMATIC PROOFING	Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30
CONNECTION TO SMARTWIRE-DT	No
RATED IMPULSE WITHSTAND VOLTAGE (UIMP)	8000 V AC
UTILIZATION CATEGORY	AC-1: Non-inductive or slightly inductive loads, resistance furnaces AC-4: Normal AC induction motors: starting, plugging, reversing, inching AC-3: Normal AC induction motors: starting, switch off during running
CONNECTION	Screw terminals

	DA-CS-dil m7_15
SYSTEM OVERVIEW	eaton-contactors-dilm- contactor-system- overview.eps
WIRING DIAGRAMS	2100SWI-117

AMBIENT OPERATING TEMPERATURE - MAX AMBIENT OPERATING TEMPERATURE - MIN AMBIENT OPERATING TEMPERATURE - MIN AMBIENT OPERATING TEMPERATURE (ENCLOSED) - MAX AMBIENT OPERATING TEMPERATURE (ENCLOSED) - MIN AMBIENT STORAGE TEMPERATURE - MAX AMBIENT STORAGE TEMPERATURE - MIN ASSIGNED MOTOR POWER AT 115/120 V, 60 HZ, 1-PHASE ASSIGNED MOTOR POWER AT 200/208 V, 60 HZ, 3-PHASE ASSIGNED MOTOR POWER AT 230/240 V, 60 HZ, 3-PHASE ASSIGNED MOTOR POWER AT 460/480 V, 60 HZ, 3-PHASE ASSIGNED MOTOR POWER AT 4575/600 V, 60 HZ, 3-PHASE ASSIGNED MOTOR POWER AT 575/600 V, 60 HZ, 3-PHASE CONVENTIONAL THERMAL CURRENT ITH (1-POLE, ENCLOSED) CONVENTIONAL THERMAL CURRENT ITH (3-POLE, ENCLOSED) CONVENTIONAL THERMAL CURRENT ITH OF MAIN CONTACTS (1-POLE, OPEN) EQUIPMENT HEAT DISSIPATION, CURRENT-		
TEMPERATURE - MAX AMBIENT OPERATING TEMPERATURE - MIN AMBIENT OPERATING TEMPERATURE (ENCLOSED) - MAX AMBIENT OPERATING TEMPERATURE (ENCLOSED) - MIN AMBIENT STORAGE TEMPERATURE - MAX AMBIENT STORAGE TEMPERATURE - MIN ASSIGNED MOTOR POWER AT 115/120 V, 60 HZ, 1-PHASE ASSIGNED MOTOR POWER AT 2200/208 V, 60 HZ, 3-PHASE ASSIGNED MOTOR POWER AT 230/240 V, 60 HZ, 3-PHASE ASSIGNED MOTOR POWER AT 230/240 V, 60 HZ, 3-PHASE ASSIGNED MOTOR POWER AT 460/480 V, 60 HZ, 3-PHASE ASSIGNED MOTOR POWER AT 575/600 V, 60 HZ, 3-PHASE CONVENTIONAL THERMAL CURRENT ITH (1-POLE, ENCLOSED) CONVENTIONAL THERMAL CURRENT ITH (3-POLE, ENCLOSED) CONVENTIONAL THERMAL CURRENT ITH AT 55°C (3-POLE, OPEN) EQUIPMENT HEAT	FRAME SIZE	FS1
TEMPERATURE - MIN AMBIENT OPERATING TEMPERATURE (ENCLOSED) - MAX AMBIENT OPERATING TEMPERATURE (ENCLOSED) - MIN AMBIENT STORAGE TEMPERATURE - MAX AMBIENT STORAGE TEMPERATURE - MIN ASSIGNED MOTOR POWER AT 115/120 V, 60 HZ, 1-PHASE ASSIGNED MOTOR POWER AT 200/208 V, 60 HZ, 3-PHASE ASSIGNED MOTOR POWER AT 230/240 V, 60 HZ, 1-PHASE ASSIGNED MOTOR POWER AT 230/240 V, 60 HZ, 3-PHASE ASSIGNED MOTOR POWER AT 230/240 V, 60 HZ, 3-PHASE ASSIGNED MOTOR POWER AT 460/480 V, 60 HZ, 3-PHASE ASSIGNED MOTOR POWER AT 575/600 V, 60 HZ, 3-PHASE CONVENTIONAL THERMAL CURRENT ITH (1-POLE, ENCLOSED) CONVENTIONAL THERMAL CURRENT ITH (3-POLE, ENCLOSED) CONVENTIONAL THERMAL CURRENT ITH AT 55°C (3-POLE, OPEN) CONVENTIONAL THERMAL CURRENT ITH OF MAIN CONTACTS (1-POLE, OPEN) EQUIPMENT HEAT		60 °C
TEMPERATURE (ENCLOSED) - MAX AMBIENT OPERATING TEMPERATURE (ENCLOSED) - MIN AMBIENT STORAGE TEMPERATURE - MAX AMBIENT STORAGE TEMPERATURE - MIN ASSIGNED MOTOR POWER AT 115/120 V, 60 HZ, 1-PHASE ASSIGNED MOTOR POWER AT 230/240 V, 60 HZ, 3-PHASE ASSIGNED MOTOR POWER AT 230/240 V, 60 HZ, 3-PHASE ASSIGNED MOTOR POWER AT 230/240 V, 60 HZ, 3-PHASE ASSIGNED MOTOR POWER AT 460/480 V, 60 HZ, 3-PHASE ASSIGNED MOTOR POWER AT 575/600 V, 60 HZ, 3-PHASE CONVENTIONAL THERMAL CURRENT ITH (1-POLE, ENCLOSED) CONVENTIONAL THERMAL CURRENT ITH (3-POLE, ENCLOSED) CONVENTIONAL THERMAL CURRENT ITH AT 55°C (3-POLE, OPEN) EQUIPMENT HEAT		-25 °C
TEMPERATURE (ENCLOSED) - MIN AMBIENT STORAGE TEMPERATURE - MAX AMBIENT STORAGE TEMPERATURE - MIN ASSIGNED MOTOR POWER AT 115/120 V, 60 HZ, 1-PHASE ASSIGNED MOTOR POWER AT 200/208 V, 60 HZ, 3-PHASE ASSIGNED MOTOR POWER AT 230/240 V, 60 HZ, 1-PHASE ASSIGNED MOTOR POWER AT 230/240 V, 60 HZ, 3-PHASE ASSIGNED MOTOR POWER AT 230/240 V, 60 HZ, 3-PHASE ASSIGNED MOTOR POWER AT 460/480 V, 60 HZ, 3-PHASE ASSIGNED MOTOR POWER AT 575/600 V, 60 HZ, 3-PHASE CONVENTIONAL THERMAL CURRENT ITH (1-POLE, ENCLOSED) CONVENTIONAL THERMAL CURRENT ITH (3-POLE, ENCLOSED) CONVENTIONAL THERMAL CURRENT ITH AT 55°C (3-POLE, OPEN) EQUIPMENT HEAT	TEMPERATURE	40 °C
TEMPERATURE - MAX AMBIENT STORAGE TEMPERATURE - MIN ASSIGNED MOTOR POWER AT 115/120 V, 60 HZ, 1-PHASE ASSIGNED MOTOR POWER AT 200/208 V, 60 HZ, 3-PHASE ASSIGNED MOTOR POWER AT 230/240 V, 60 HZ, 1-PHASE ASSIGNED MOTOR POWER AT 230/240 V, 60 HZ, 3-PHASE ASSIGNED MOTOR POWER AT 460/480 V, 60 HZ, 3-PHASE ASSIGNED MOTOR POWER AT 575/600 V, 60 HZ, 3-PHASE CONVENTIONAL THERMAL CURRENT ITH (1-POLE, ENCLOSED) CONVENTIONAL THERMAL CURRENT ITH (3-POLE, ENCLOSED) CONVENTIONAL THERMAL CURRENT ITH AT 55°C (3-POLE, OPEN) CONVENTIONAL THERMAL CURRENT ITH OF MAIN CONTACTS (1-POLE, OPEN) EQUIPMENT HEAT	TEMPERATURE	25 °C
ASSIGNED MOTOR POWER AT 115/120 V, 60 HZ, 1-PHASE ASSIGNED MOTOR POWER AT 200/208 V, 60 HZ, 3-PHASE ASSIGNED MOTOR POWER AT 230/240 V, 60 HZ, 1-PHASE ASSIGNED MOTOR POWER AT 230/240 V, 60 HZ, 1-PHASE ASSIGNED MOTOR POWER AT 230/240 V, 60 HZ, 3-PHASE ASSIGNED MOTOR POWER AT 460/480 V, 60 HZ, 3-PHASE ASSIGNED MOTOR POWER AT 575/600 V, 60 HZ, 3-PHASE CONVENTIONAL THERMAL CURRENT ITH (1-POLE, ENCLOSED) CONVENTIONAL THERMAL CURRENT ITH AT 55°C (3-POLE, OPEN) CONVENTIONAL THERMAL CURRENT ITH OF MAIN CONTACTS (1-POLE, OPEN) EQUIPMENT HEAT		80 °C
POWER AT 115/120 V, 60 HZ, 1-PHASE ASSIGNED MOTOR POWER AT 200/208 V, 60 HZ, 3-PHASE ASSIGNED MOTOR POWER AT 230/240 V, 60 HZ, 1-PHASE ASSIGNED MOTOR POWER AT 230/240 V, 60 HZ, 3-PHASE ASSIGNED MOTOR POWER AT 460/480 V, 60 HZ, 3-PHASE ASSIGNED MOTOR POWER AT 575/600 V, 60 HZ, 3-PHASE CONVENTIONAL THERMAL CURRENT ITH (1-POLE, ENCLOSED) CONVENTIONAL THERMAL CURRENT ITH (3-POLE, ENCLOSED) CONVENTIONAL THERMAL CURRENT ITH AT 55°C (3-POLE, OPEN) CONVENTIONAL THERMAL CURRENT ITH OF MAIN CONTACTS (1-POLE, OPEN) EQUIPMENT HEAT		40 °C
POWER AT 200/208 V, 60 HZ, 3-PHASE ASSIGNED MOTOR POWER AT 230/240 V, 60 HZ, 1-PHASE ASSIGNED MOTOR POWER AT 230/240 V, 60 HZ, 3-PHASE ASSIGNED MOTOR POWER AT 460/480 V, 60 HZ, 3-PHASE ASSIGNED MOTOR POWER AT 575/600 V, 60 HZ, 3-PHASE CONVENTIONAL THERMAL CURRENT ITH (1-POLE, ENCLOSED) CONVENTIONAL THERMAL CURRENT ITH (3-POLE, ENCLOSED) CONVENTIONAL THERMAL CURRENT ITH AT 55°C (3-POLE, OPEN) CONVENTIONAL THERMAL CURRENT ITH OF MAIN CONTACTS (1-POLE, OPEN) EQUIPMENT HEAT	POWER AT 115/120 V, 60	0.5 HP
POWER AT 230/240 V, 60 HZ, 1-PHASE ASSIGNED MOTOR POWER AT 230/240 V, 60 HZ, 3-PHASE ASSIGNED MOTOR POWER AT 460/480 V, 60 HZ, 3-PHASE ASSIGNED MOTOR POWER AT 575/600 V, 60 HZ, 3-PHASE CONVENTIONAL THERMAL CURRENT ITH (1-POLE, ENCLOSED) CONVENTIONAL THERMAL CURRENT ITH (3-POLE, ENCLOSED) CONVENTIONAL THERMAL CURRENT ITH AT 55°C (3-POLE, OPEN) CONVENTIONAL THERMAL CURRENT ITH OF MAIN CONTACTS (1-POLE, OPEN) EQUIPMENT HEAT	POWER AT 200/208 V, 60	3 HP
POWER AT 230/240 V, 60 HZ, 3-PHASE ASSIGNED MOTOR POWER AT 460/480 V, 60 HZ, 3-PHASE ASSIGNED MOTOR POWER AT 575/600 V, 60 HZ, 3-PHASE CONVENTIONAL THERMAL CURRENT ITH (1-POLE, ENCLOSED) CONVENTIONAL THERMAL CURRENT ITH (3-POLE, ENCLOSED) CONVENTIONAL THERMAL CURRENT ITH AT 55°C (3-POLE, OPEN) CONVENTIONAL THERMAL CURRENT ITH OF MAIN CONTACTS (1-POLE, OPEN) EQUIPMENT HEAT	POWER AT 230/240 V, 60	1.5 HP
POWER AT 460/480 V, 60 HZ, 3-PHASE ASSIGNED MOTOR POWER AT 575/600 V, 60 HZ, 3-PHASE CONVENTIONAL THERMAL CURRENT ITH (1-POLE, ENCLOSED) CONVENTIONAL THERMAL CURRENT ITH (3-POLE, ENCLOSED) CONVENTIONAL THERMAL CURRENT ITH AT 55°C (3-POLE, OPEN) CONVENTIONAL THERMAL CURRENT ITH OF MAIN CONTACTS (1-POLE, OPEN) EQUIPMENT HEAT	POWER AT 230/240 V, 60	3 HP
POWER AT 575/600 V, 60 HZ, 3-PHASE CONVENTIONAL THERMAL CURRENT ITH (1-POLE, ENCLOSED) CONVENTIONAL THERMAL CURRENT ITH (3-POLE, ENCLOSED) CONVENTIONAL THERMAL CURRENT ITH AT 55°C (3-POLE, OPEN) CONVENTIONAL THERMAL CURRENT ITH OF MAIN CONTACTS (1-POLE, OPEN) EQUIPMENT HEAT	POWER AT 460/480 V, 60	5 HP
THERMAL CURRENT ITH (1-POLE, ENCLOSED) CONVENTIONAL THERMAL CURRENT ITH (3-POLE, ENCLOSED) CONVENTIONAL THERMAL CURRENT ITH AT 55°C (3-POLE, OPEN) CONVENTIONAL THERMAL CURRENT ITH OF MAIN CONTACTS (1-POLE, OPEN) EQUIPMENT HEAT	POWER AT 575/600 V, 60	7.5 HP
THERMAL CURRENT ITH (3-POLE, ENCLOSED) CONVENTIONAL THERMAL CURRENT ITH AT 55°C (3-POLE, OPEN) CONVENTIONAL THERMAL CURRENT ITH OF MAIN CONTACTS (1-POLE, OPEN) EQUIPMENT HEAT	THERMAL CURRENT ITH	45 A
THERMAL CURRENT ITH 21 A AT 55°C (3-POLE, OPEN) CONVENTIONAL THERMAL CURRENT ITH OF MAIN CONTACTS (1- POLE, OPEN) EQUIPMENT HEAT	THERMAL CURRENT ITH	18 A
THERMAL CURRENT ITH OF MAIN CONTACTS (1- POLE, OPEN) EQUIPMENT HEAT	THERMAL CURRENT ITH	21 A
•	THERMAL CURRENT ITH OF MAIN CONTACTS (1-	50 A
DEPENDENT PVID	DISSIPATION, CURRENT-	0 W

HEAT DISSIPATION CAPACITY PDISS	0 W
HEAT DISSIPATION PER POLE, CURRENT- DEPENDENT PVID	0.2 W
APPLICATION	Contactors for Motors
PRODUCT CATEGORY	Contactors
PROTECTION	Finger and back-of-hand proof, Protection against direct contact when actuated from front (EN 50274)
ARCING TIME	10 ms
ELECTRICAL CONNECTION TYPE OF MAIN CIRCUIT	Screw connection
SCREWDRIVER SIZE	2, Terminal screw, Pozidriv screwdriver 0.8 x 5.5/1 x 6 mm, Terminal screw, Standard screwdriver
VOLTAGE TYPE	AC
DEGREE OF PROTECTION	IP20
NUMBER OF AUXILIARY CONTACTS (NORMALLY CLOSED CONTACTS)	1
NUMBER OF AUXILIARY CONTACTS (NORMALLY OPEN CONTACTS)	0
NUMBER OF CONTACTS (NORMALLY CLOSED CONTACTS)	1
NUMBER OF CONTACTS (NORMALLY CLOSED) AS MAIN CONTACT	0
NUMBER OF MAIN CONTACTS (NORMALLY OPEN CONTACT)	3
RATED BREAKING CAPACITY AT 220/230 V	90 A
RATED BREAKING CAPACITY AT 380/400 V	90 A
RATED BREAKING CAPACITY AT 500 V	70 A
RATED BREAKING CAPACITY AT 660/690 V	50 A
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MAX	415 V

RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MIN	415 V
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MAX	480 V
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MIN	480 V
DROP-OUT VOLTAGE	AC operated: 0.6 - 0.3 x UC, AC operated
OVERVOLTAGE CATEGORY	III
DUTY FACTOR	100 %
EMITTED INTERFERENCE	According to EN 60947-1
INTERFERENCE IMMUNITY	According to EN 60947-1
LIFESPAN, MECHANICAL	10,000,000 Operations (AC operated)
PICK-UP VOLTAGE	0.8 - 1.1 V AC x Uc
POWER CONSUMPTION, PICK-UP, 50 HZ	24 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 50 Hz
SAFE ISOLATION	400 V AC, Between the contacts, According to EN 61140 400 V AC, Between coil and contacts, According to EN 61140
POWER CONSUMPTION, PICK-UP, 60 HZ	30 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 60 Hz
SCREW SIZE	M3.5, Terminal screw
POWER CONSUMPTION, SEALING, 50 HZ	1.4 W, Dual-frequency coil in a cold state and 1.0 x Us, at 50 Hz 3.4 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 50 Hz
POWER CONSUMPTION, SEALING, 60 HZ	1.4 W, Dual-frequency coil in a cold state and 1.0 x Us, at 60 Hz 4.4 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 60 Hz
SWITCHING CAPACITY (AUXILIARY CONTACTS, GENERAL USE)	1 A, 250 V DC, (UL/CSA) 10 A, 600 V AC, (UL/CSA)
SWITCHING CAPACITY	P300, DC operated

PILOT DUTY)	A600, AC operated (UL/CSA)
TERMINAL CAPACITY (FLEXIBLE WITH FERRULE)	2 x (0.75 - 2,5) mm ² 1 x (0.75 - 2.5) mm ² 2 x (0.75 - 2.5) mm ²
SHOCK RESISTANCE	7 g, N/O auxiliary contact, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 10 ms 3.4 g, N/O auxiliary contact, Mechanical, according to IEC/EN 60068-2-27 when tabletop-mounted, Half-sinusoidal shock 10 ms 5 g, N/C auxiliary contact, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 10 ms 5.7 g, N/O main contact, Mechanical, according to IEC/EN 60068-2-27 when tabletop-mounted, Half-sinusoidal shock 10 ms 10 g, N/O main contact, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 10 ms 3.4 g, N/C auxiliary contact, Mechanical, according to IEC/EN 60068-2-27 when tabletop-mounted, Half-sinusoidal shock 10 ms 3.4 g, N/C auxiliary contact, Mechanical, according to IEC/EN 60068-2-27 when tabletop-mounted, Half-sinusoidal shock 10 ms
TERMINAL CAPACITY (SOLID)	1 x (0.75 - 4) mm ² 2 x (0.75 - 2.5) mm ²
TERMINAL CAPACITY (SOLID/STRANDED AWG)	Single 18 - 10, double 18 - 14
SWITCHING CAPACITY (MAIN CONTACTS, GENERAL USE)	20 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 690 V (COS PHI TO IEC/EN	112 A

60947)	
RATED OPERATIONAL CURRENT (IE) AT AC-1, 380 V, 400 V, 415 V	22 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	7 A
RATED OPERATIONAL CURRENT (IE) AT AC-3, 660 V, 690 V	5 A
RATED OPERATIONAL CURRENT (IE) AT AC-4, 220 V, 230 V, 240 V	6 A
RATED OPERATIONAL CURRENT (IE) AT AC-4, 400 V	6 A
RATED OPERATIONAL CURRENT (IE) AT AC-4, 440 V	6 A
RATED OPERATIONAL CURRENT (IE) AT AC-4, 500 V	5 A
RATED OPERATIONAL CURRENT (IE) AT AC-4, 660 V, 690 V	4.5 A
RATED OPERATIONAL CURRENT (IE) AT DC-1, 110 V	20 A
RATED OPERATIONAL CURRENT (IE) AT DC-1, 220 V	15 A
RATED OPERATIONAL CURRENT (IE) AT DC-1, 60 V	20 A
RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)	9 A
RATED OPERATIONAL POWER AT AC-3, 240 V, 50 HZ	3 kW
RATED OPERATIONAL	4 kW

POWER AT AC-3, 380/400 V, 50 HZ	
RATED OPERATIONAL POWER AT AC-3, 415 V, 50 HZ	5.5 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	1.6 kW
RATED OPERATIONAL POWER AT AC-4, 380/400 V, 50 HZ	2.5 kW
RATED OPERATIONAL POWER AT AC-4, 415 V, 50 HZ	2.8 kW
RATED OPERATIONAL POWER AT AC-4, 440 V, 50 HZ	3 kW
RATED OPERATIONAL POWER AT AC-4, 500 V, 50 HZ	2.8 kW
RATED OPERATIONAL POWER AT AC-4, 660/690 V, 50 HZ	3.6 kW
RATED OPERATIONAL POWER (NEMA)	3.7 kW
RATED OPERATIONAL VOLTAGE (UE) AT AC - MAX	690 V
RESISTANCE PER POLE	2.5 mΩ
STATIC HEAT DISSIPATION, NON- CURRENT-DEPENDENT PVS	1.4 W
STRIPPING LENGTH (CONTROL CIRCUIT CABLE)	10 mm
STRIPPING LENGTH (MAIN CABLE)	10 mm
SWITCHING TIME (AC OPERATED, MAKE CONTACTS, CLOSING DELAY) - MAX	21 ms
SWITCHING TIME (AC OPERATED, MAKE CONTACTS, CLOSING DELAY) - MIN	15 ms
SWITCHING TIME (AC	18 ms

OPERATED, MAKE	
CONTACTS, OPENING DELAY) - MAX	
SWITCHING TIME (AC OPERATED, MAKE CONTACTS, OPENING DELAY) - MIN	9 ms
SHORT-CIRCUIT CURRENT RATING (BASIC RATING)	5 kA, SCCR (UL/CSA) 45 A, max. Fuse, SCCR (UL/CSA) 60 A, max. CB, SCCR (UL/CSA)
SHORT-CIRCUIT CURRENT RATING (HIGH FAULT AT 480 V)	30/100 kA, Fuse, SCCR (UL/CSA) 25 A, Class RK5/ 20 A Class J, max. Fuse, SCCR (UL/CSA) 16 A, max. CB, SCCR (UL/CSA) 65 kA, CB, SCCR (UL/CSA)
SHORT-CIRCUIT CURRENT RATING (HIGH FAULT AT 600 V)	25 A, Class RK5/20 A, Class J, max. Fuse, SCCR (UL/CSA) 30/100 kA, Fuse, SCCR (UL/CSA)
SHORT-CIRCUIT PROTECTION RATING (TYPE 1 COORDINATION) AT 400 V	35 A gG/gL
SUITABLE FOR	Also motors with efficiency class IE3
SHORT-CIRCUIT PROTECTION RATING (TYPE 1 COORDINATION) AT 690 V	20 A gG/gL
SHORT-CIRCUIT PROTECTION RATING (TYPE 2 COORDINATION) AT 400 V	20 A gG/gL
SHORT-CIRCUIT PROTECTION RATING (TYPE 2 COORDINATION) AT 690 V	16 A gG/gL
SPECIAL PURPOSE RATING OF BALLAST ELECTRICAL DISCHARGE LAMPS	18 A (480V 60Hz 3phase, 277V 60Hz 1phase) 18 A (600V 60Hz 3phase, 347V 60Hz 1phase)
SPECIAL PURPOSE RATING OF DEFINITE PURPOSE RATING	54 A, LRA 480 V 60 Hz 3- ph, 100,000 cycles acc. to UL 1995, (UL/CSA) 9 A, FLA 480 V 60 Hz 3-ph, 100,000 cycles acc. to UL

	1995, (UL/CSA)
SPECIAL PURPOSE RATING OF ELEVATOR CONTROL	6.8 A, 240 V 60 Hz 3-ph, (UL/CSA) 4.8 A, 480 V 60 Hz 3-ph, (UL/CSA) 5 HP, 600 V 60 Hz 3-ph, (UL/CSA) 2 HP, 200 V 60 Hz 3-ph, (UL/CSA) 2 HP, 240 V 60 Hz 3-ph, (UL/CSA) 3 HP, 480 V 60 Hz 3-ph, (UL/CSA) 7.8 A, 200 V 60 Hz 3-ph, (UL/CSA) 6.1 A, 600 V 60 Hz 3-ph, (UL/CSA)
SPECIAL PURPOSE RATING OF REFRIGERATION CONTROL (CSA ONLY)	10 A, FLA 480 V 60 Hz 3phase; (CSA) 10 A, FLA 600 V 60 Hz 3phase; (CSA) 60 A, LRA 480 V 60 Hz 3phase; (CSA) 60 A, LRA 600 V 60 Hz 3phase; (CSA)
SPECIAL PURPOSE RATING OF RESISTANCE AIR HEATING	18 A, 600 V 60 Hz 3phase, 347 V 60 Hz 1phase, (UL/CSA) 18 A, 480 V 60 Hz 3phase, 277 V 60 Hz 1phase, (UL/CSA)
SPECIAL PURPOSE RATING OF TUNGSTEN INCANDESCENT LAMPS	14 A, 480 V 60 Hz 3phase, 277 V 60 Hz 1phase, (UL/CSA) 14 A, 600 V 60 Hz 3phase, 347 V 60 Hz 1phase, (UL/CSA)
CONVENTIONAL THERMAL CURRENT ITH AT 40°C (3-POLE, OPEN)	22 A
CONVENTIONAL THERMAL CURRENT ITH AT 50°C (3-POLE, OPEN)	21 A
CONVENTIONAL THERMAL CURRENT ITH AT 60°C (3-POLE, OPEN)	20 A
RATED OPERATIONAL POWER AT AC-3, 440 V, 50 HZ	5.5 kW
RATED OPERATIONAL POWER AT AC-3, 500 V, 50 HZ	4.5 kW
RATED OPERATIONAL	4.5 kW

POWER AT AC-3, 690 V, 50 HZ	
ACTUATING VOLTAGE	415 V 50 Hz, 480 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:	



Eaton Corporation plc

Eaton House 30 Pembroke Road Dublin 4, Ireland Eaton.com

© 2025 Eaton. All Rights Reserved.

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









