

Specifications

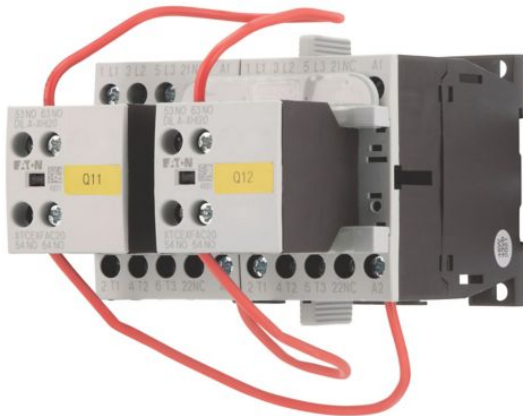
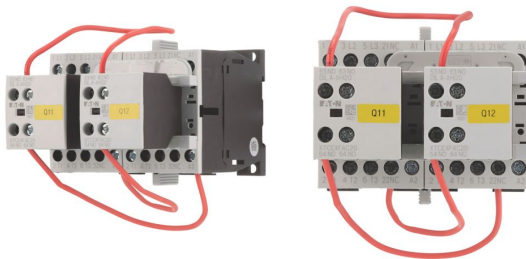


Photo is representative



Eaton 278111

Eaton Moeller® series DIUL Reversing contactor combination, 380 V 400 V: 5.5 kW, 230 V 50 Hz, 240 V 60 Hz, AC operation

General specifications

PRODUCT NAME	Eaton Moeller® series DIUL contactor combination
CATALOG NUMBER	278111
MODEL CODE	DIULM12/21(230V50HZ,240V60HZ)
EAN	4015082781118
PRODUCT LENGTH/DEPTH	117 mm
PRODUCT HEIGHT	68 mm
PRODUCT WIDTH	90 mm
PRODUCT WEIGHT	0.597 kg
COMPLIANCES	CE Marked RoHS Compliant
CERTIFICATIONS	CSA Certified UL Listed IEC/EN 60947-4-1 UL Category Control No.: NLDX UL File No.: E29096 CSA Class No.: 2411-03, 3211-04 UL 60947-4-1 CE CSA File No.: 012528 CSA-C22.2 No. 60947-4-1-14 IEC 60947-4-1 EN 60947-4-1 UL CSA

Climatic environmental conditions

AMBIENT OPERATING TEMPERATURE - MAX	60 °C
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AMBIENT STORAGE TEMPERATURE - MAX	80 °C
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AMBIENT OPERATING TEMPERATURE - MIN	-25 °C
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AMBIENT OPERATING TEMPERATURE (ENCLOSED) - MAX	40 °C
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AMBIENT OPERATING TEMPERATURE (ENCLOSED) - MIN	-25 °C
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AMBIENT STORAGE TEMPERATURE - MIN	-40 °C
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Contacts

NUMBER OF MAIN CONTACTS (NORMALLY OPEN CONTACT)	6
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NUMBER OF AUXILIARY CONTACTS (NORMALLY CLOSED CONTACTS)	0
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NUMBER OF AUXILIARY CONTACTS (NORMALLY OPEN CONTACTS)	2
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NUMBER OF CONTACTS	2 NO 1 NC
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NUMBER OF CONTACTS (NORMALLY CLOSED) AS MAIN CONTACT	0
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Design verification

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 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	Does not apply, since the

Electrical rating

RATED INSULATION VOLTAGE (UI)	690 V
RATED OPERATIONAL CURRENT (IE) AT AC-1, 380 V, 400 V, 415 V	12 A
RATED OPERATIONAL CURRENT (IE) AT AC-3, 380 V, 400 V, 415 V	12 A
RATED OPERATIONAL POWER AT AC-3, 380/400 V, 50 HZ	5.5 kW
RATED OPERATIONAL POWER AT AC-3, 690 V, 50 HZ	6.5 kW
RATED OPERATIONAL POWER AT AC-4, 220/230 V, 50 HZ	2 kW
RATED OPERATIONAL POWER AT AC-4, 660/690 V, 50 HZ	4.4 kW

AGAINST ELECTRIC SHOCK	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	Is the panel builder's responsibility.
10.8 CONNECTIONS FOR EXTERNAL CONDUCTORS	Is the panel builder's responsibility.
10.9.2 POWER-FREQUENCY ELECTRIC STRENGTH	Is 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.
EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT PVID	1.5 W
HEAT DISSIPATION CAPACITY PDISS	0 W
HEAT DISSIPATION PER POLE, CURRENT-DEPENDENT PVID	0.5 W
RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)	12 A
STATIC HEAT DISSIPATION, NON-CURRENT-DEPENDENT PVS	1.4 W

Electro magnetic compatibility

INTERFERENCE IMMUNITY	According to EN 60947-1
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Features & functions

FEATURES	Mechanical interlock
FUNCTIONS	Reversing safety
NUMBER OF POLES	Three-pole

General information

APPLICATION	Contactors combinations for starting motors with two directions of rotation
CONNECTION	Screw terminals
DEGREE OF PROTECTION	IP20 NEMA Other
OVERVOLTAGE CATEGORY	III
POLLUTION DEGREE	3
PRODUCT CATEGORY	Contactors combinations
SUITABLE FOR	Also motors with efficiency class IE3
TYPE	Full voltage reversing contactor
UTILIZATION CATEGORY	AC-4: Normal AC induction motors: starting, plugging, reversing, inching AC-3: Normal AC induction motors: starting, switch off during running
VOLTAGE TYPE	AC
FRAME SIZE	45 mm

Terminal capacities

TERMINALS	Screw terminals
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Magnet system

COIL VOLTAGE	230-240 Vac, 50/60 Hz
DUTY FACTOR	100 %
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MAX	230 V
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MIN	230 V
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MAX	240 V
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MIN	240 V
POWER CONSUMPTION	5.5 kW

Resources

CATALOGUES	eaton-product-overview-for-machinery-catalogue-ca08103003zen-en-us.pdf
DECLARATIONS OF CONFORMITY	eaton-contactor-combination-declaration-of-conformity-eu250766en.pdf eaton-contactor-combination-declaration-of-conformity-uk251249en.pdf
DRAWINGS	eaton-reversing-starters-diul-contactor-combination-dimensions.eps eaton-general-ie-ready-dilm-contactor-standards.eps
ECAD MODEL	ETN.DIULM12_21(230V50HZ,240V60HZ)
INSTALLATION INSTRUCTIONS	IL03407043Z IL03407030Z
INSTALLATION VIDEOS	WIN-WIN with push-in technology

MCAD MODEL	eaton-iec-contactors-mcad-drawings-diul-bg1.dwg
	DA-CS-diul_bg1
SYSTEM OVERVIEW	eaton-reversing-starters-diul-contactor-combination-explosion-drawing.eps
WIRING DIAGRAMS	eaton-contactors-contact-sdainl-combination-wiring-diagram-002.eps
	eaton-reversing-starters-diagram-diul-contactor-combination-wiring-diagram.eps

PROJECT NAME:

PROJECT NUMBER:

PREPARED BY:

DATE:



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

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