

Specifications

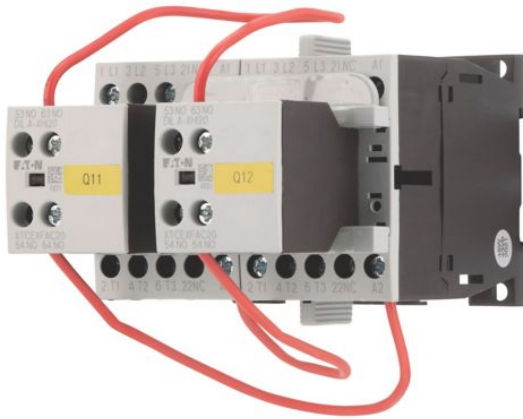
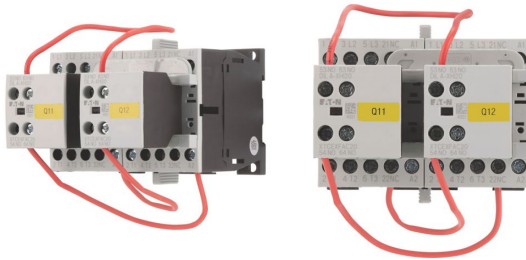


Photo is representative



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
GLOBAL CATALOG	278111

Product specifications

ELECTRICAL

CONNECTION TYPE FOR AUXILIARY- AND CONTROL-CURRENT CIRCUIT

Screw connection

AMPERAGE RATING

12A

HP RATING - MAX

1, 2/3, 3, 10, 10 hp (1/3PH
@120, 240/208, 240, 480,
600 V)

NUMBER OF POLES

Three-pole

TYPE

Full voltage reversing
contactor

VOLTAGE RATING

400 V

FEATURES

Mechanical interlock

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 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	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.
FREQUENCY RATING	50-60 Hz
POLLUTION DEGREE	3
UTILIZATION CATEGORY	AC-4: Normal AC induction motors: starting, plugging, reversing, inching AC-3: Normal AC induction motors: starting, switch off during running
CONNECTION	Screw terminals
FRAME SIZE	45 mm
AMBIENT OPERATING TEMPERATURE - MAX	60 °C
AMBIENT OPERATING TEMPERATURE - MIN	-25 °C

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
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
APPLICATION	Contactors combinations for starting motors with two directions of rotation
PRODUCT CATEGORY	Contactors combinations
TERMINALS	Screw terminals
ELECTRICAL CONNECTION TYPE OF MAIN CIRCUIT	Screw connection
VOLTAGE TYPE	AC
DEGREE OF PROTECTION	IP20 NEMA Other
NUMBER OF AUXILIARY CONTACTS (NORMALLY CLOSED CONTACTS)	0
NUMBER OF AUXILIARY CONTACTS (NORMALLY OPEN CONTACTS)	2
NUMBER OF CONTACTS (NORMALLY CLOSED) AS MAIN CONTACT	0
NUMBER OF MAIN CONTACTS (NORMALLY OPEN CONTACT)	6
OPERATING TEMPERATURE - MAX	60 °C
OPERATING TEMPERATURE - MIN	-25 °C
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
COIL VOLTAGE	230-240 Vac, 50/60 Hz
CONTINUOUS AMPERE RATING	12:00 AM
SERIES	XT IEC
OVERVOLTAGE CATEGORY	III
DUTY FACTOR	100 %
NUMBER OF CONTACTS	2 NO 1 NC
OPERATION	Reversing contactor
INTERFERENCE IMMUNITY	According to EN 60947-1
FUNCTIONS	Reversing safety
POWER CONSUMPTION	5.5 kW
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 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 CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)	12 A
RATED OPERATIONAL POWER AT AC-3, 380/400 V, 50 HZ	5.5 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

RATED OPERATIONAL POWER (NEMA)	7.4 kW
STATIC HEAT DISSIPATION, NON-CURRENT-DEPENDENT PVS	1.4 W
SUITABLE FOR	Also motors with efficiency class IE3
OPERATING TEMPERATURE	-25° to 60°C
RATED OPERATIONAL POWER AT AC-3, 690 V, 50 HZ	6.5 kW
ACTUATING VOLTAGE	230 V 50 Hz, 240 V 60 Hz
NUMBER OF AUXILIARY CONTACTS (CHANGE-OVER CONTACTS)	0
VOLTAGE TYPE OF OPERATING VOLTAGE	AC
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
OPERATING VOLTAGE AT DC - MIN	0 V
OPERATING VOLTAGE AT DC - MAX	0 V

Resources

[IEC contactors and starters](#)

[SmartWire-DT Catalog](#)

CATALOGS

[Product Range Catalog Switching and protecting motors](#)

[eaton-product-overview-for-machinery-catalogue-ca08103003zen-en-us.pdf](#)

DECLARATIONS OF CONFORMITY

[DA-DC-00004810.pdf](#)

[DA-DC-00004792.pdf](#)

DRAWINGS

[eaton-reversing-starters-diul-contactor-combination-dimensions.eps](#)

[eaton-general-ie-ready-diulm-contactor-standards.eps](#)

ECAD MODEL	ETN.DIULM12_21(230V50HZ,240V60HZ)
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INSTALLATION INSTRUCTIONS	IL03407043Z IL03407030Z
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INSTALLATION VIDEOS	WIN-WIN with push-in technology
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MCAD MODEL	DA-CS-diul_bg1 DA-CD-diul_bg1
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SYSTEM OVERVIEW	eaton-reversing-starters-diul-contactor-combination-explosion-drawing.eps
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WIRING DIAGRAMS	eaton-reversing-starters-diagram-diul-contactor-combination-wiring-diagram.eps eaton-contactors-contact-sdainl-combination-wiring-diagram-002.eps
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PROJECT NAME:

PROJECT NUMBER:

PREPARED BY:

DATE:



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