

DIL CONTACTORS  
278211

  
Overview

  
Specifications

  
Resources

How to

# 278211

Eaton Moeller® series DIUL Reversing contactor c  
18.5 kW, 230 V 50 Hz, 240 V 60 Hz, AC operation



 WIN-WIN with Push-in Terminals

 How to improve wiring

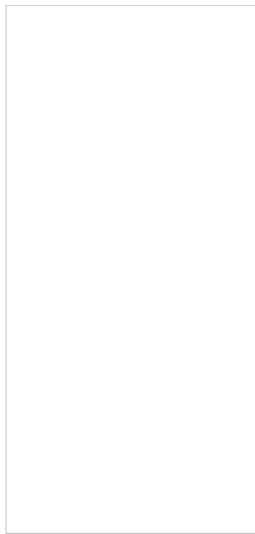


Photo is representative

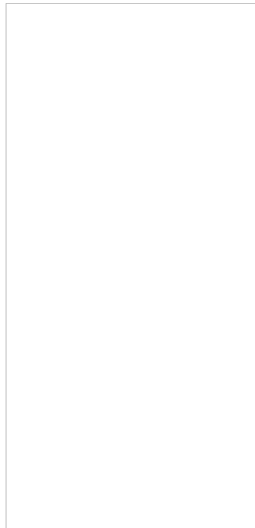


Photo is representative

## GENERAL SPECIFICATIONS

General specifications	>	<b>PRODUCT NAME</b>	Eaton Moeller® series DIUL contactor combination
		<b>CATALOG NUMBER</b>	278211
Product specifications	>	<b>MODEL CODE</b>	DIULM40/11(230V50HZ,240V60HZ)
		<b>EAN</b>	4015082782115
		<b>PRODUCT LENGTH/DEPTH</b>	147 mm
		<b>PRODUCT HEIGHT</b>	115 mm
		<b>PRODUCT WIDTH</b>	110 mm
		<b>PRODUCT WEIGHT</b>	1.936 kg
		<b>WARRANTY</b>	Not Applicable
		<b>COMPLIANCES</b>	CE Marked RoHS Compliant
		<b>CERTIFICATIONS</b>	CSA Certified UL Listed CE CSA-C22.2 No. 60947-4-1-14 UL 60947-4-1 UL Category Control No.: NLDX CSA UL File No.: E29096 IEC/EN 60947-4-1 UL CSA File No.: 012528 CSA Class No.: 2411-03, 3211-04

## PRODUCT SPECIFICATIONS

<b>RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)</b>	40 A
<b>10.11 SHORT-CIRCUIT RATING</b>	Is the panel builder's responsibility. The specification must be observed.
<b>RATED OPERATIONAL POWER AT AC-3, 380/400 V, 50 HZ</b>	18.5 kW
<b>OPERATING VOLTAGE AT AC, 50 HZ - MAX</b>	690 V
<b>RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MIN</b>	230 V
<b>10.4 CLEARANCES AND CREEPAGE DISTANCES</b>	Meets the product standard's requirements.
<b>10.12 ELECTROMAGNETIC COMPATIBILITY</b>	Is the panel builder's responsibility. The specification must be observed.

<b>NUMBER OF CONTACTS (NORMALLY CLOSED) AS MAIN CONTACT</b>	0
<b>AMPERAGE RATING</b>	40A
<b>10.2.5 LIFTING</b>	Does not apply, since the entire switchgear needs to
<b>RATED OPERATIONAL POWER (NEMA)</b>	22 kW
<b>OPERATING VOLTAGE AT DC - MAX</b>	0 V
<b>10.2.3.1 VERIFICATION OF THERMAL STABILITY OF ENCLOSURES</b>	Meets the product standard's requirements.
<b>RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MIN</b>	0 V
<b>RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MAX</b>	230 V
<b>FREQUENCY RATING</b>	50-60 Hz
<b>10.8 CONNECTIONS FOR EXTERNAL CONDUCTORS</b>	Is the panel builder's responsibility.
<b>NUMBER OF MAIN CONTACTS (NORMALLY OPEN CONTACT)</b>	6
<b>OPERATING TEMPERATURE</b>	-25° to 60°C
<b>TERMINALS</b>	Screw terminals
<b>OPERATING VOLTAGE AT DC - MIN</b>	0 V
<b>HP RATING - MAX</b>	3, 7.5/10, 15, 30, 40 hp (1/3PH @120, 240/208, 2
<b>AMBIENT OPERATING TEMPERATURE - MAX</b>	60 °C
<b>FEATURES</b>	Mechanical interlock
<b>STATIC HEAT DISSIPATION, NON-CURRENT-DEPENDENT PVS</b>	4.1 W
<b>ELECTRICAL CONNECTION TYPE FOR AUXILIARY- AND CONTROL-CURRENT CIRCUIT</b>	Screw connection
<b>ELECTRICAL CONNECTION TYPE OF MAIN CIRCUIT</b>	Screw connection
<b>RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MAX</b>	0 V
<b>NUMBER OF POLES</b>	Three-pole
<b>10.9.3 IMPULSE WITHSTAND VOLTAGE</b>	Is the panel builder's responsibility.
<b>UTILIZATION CATEGORY</b>	AC-3: Normal AC induction motors: starting, switching AC-4: Normal AC induction motors: starting, plugging, inching
<b>AMBIENT OPERATING TEMPERATURE - MIN</b>	-25 °C
<b>COIL VOLTAGE</b>	230-240 Vac, 50/60 Hz
<b>10.6 INCORPORATION OF SWITCHING DEVICES AND COMPONENTS</b>	Does not apply, since the entire switchgear needs to

<b>10.5 PROTECTION AGAINST ELECTRIC SHOCK</b>	Does not apply, since the entire switchgear needs to
<b>OPERATING VOLTAGE AT AC, 50 HZ - MIN</b>	230 V
<b>10.13 MECHANICAL FUNCTION</b>	The device meets the requirements, provided the instruction leaflet (IL) is observed.
<b>10.2.6 MECHANICAL IMPACT</b>	Does not apply, since the entire switchgear needs to
<b>10.9.4 TESTING OF ENCLOSURES MADE OF INSULATING MATERIAL</b>	Is the panel builder's responsibility.
<b>10.3 DEGREE OF PROTECTION OF ASSEMBLIES</b>	Does not apply, since the entire switchgear needs to
<b>HEAT DISSIPATION PER POLE, CURRENT-DEPENDENT PVID</b>	3.1 W
<b>APPLICATION</b>	Contactor combinations for starting motors with two rotation
<b>ACTUATING VOLTAGE</b>	230 V 50 Hz, 240 V 60 Hz
<b>VOLTAGE TYPE</b>	AC
<b>PRODUCT CATEGORY</b>	Contactor combinations
<b>OPERATING TEMPERATURE - MIN</b>	-25 °C
<b>RATED OPERATIONAL POWER AT AC-3, 690 V, 50 HZ</b>	23 kW
<b>EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT PVID</b>	9.3 W
<b>HEAT DISSIPATION CAPACITY PDISS</b>	0 W
<b>SUITABLE FOR</b>	Also motors with efficiency class IE3
<b>OPERATION</b>	Reversing contactor
<b>NUMBER OF AUXILIARY CONTACTS (NORMALLY CLOSED CONTACTS)</b>	0
<b>CONTINUOUS AMPERE RATING</b>	40 A
<b>POWER CONSUMPTION</b>	18.5 kW
<b>10.2.3.2 VERIFICATION OF RESISTANCE OF INSULATING MATERIALS TO NORMAL HEAT</b>	Meets the product standard's requirements.
<b>OPERATING TEMPERATURE - MAX</b>	60 °C
<b>10.2.3.3 RESIST. OF INSUL. MAT. TO ABNORMAL HEAT/FIRE BY INTERNAL ELECT. EFFECTS</b>	Meets the product standard's requirements.
<b>VOLTAGE RATING</b>	400 V
<b>OPERATING VOLTAGE AT AC, 60 HZ - MAX</b>	690 V
<b>NUMBER OF CONTACTS</b>	1 NO 1 NC
<b>10.9.2 POWER-FREQUENCY ELECTRIC STRENGTH</b>	Is the panel builder's responsibility.
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<b>DEGREE OF PROTECTION</b>	NEMA Other
<b>RATED OPERATIONAL POWER AT AC-4, 220/230 V, 50 HZ</b>	5 kW
<b>NUMBER OF AUXILIARY CONTACTS (CHANGE-OVER CONTACTS)</b>	0
<b>VOLTAGE TYPE OF OPERATING VOLTAGE</b>	AC
<b>RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MIN</b>	240 V
<b>RATED OPERATIONAL CURRENT (IE) AT AC-1, 380 V, 400 V, 415 V</b>	40 A
<b>10.7 INTERNAL ELECTRICAL CIRCUITS AND CONNECTIONS</b>	Is the panel builder's responsibility.
<b>CONNECTION</b>	Screw terminals
<b>10.10 TEMPERATURE RISE</b>	The panel builder is responsible for the temperature Eaton will provide heat dissipation data for the devi
<b>FUNCTIONS</b>	Reversing safety
<b>OPERATING VOLTAGE AT AC, 60 HZ - MIN</b>	230 V
<b>RATED OPERATIONAL POWER AT AC-4, 660/690 V, 50 HZ</b>	12 kW
<b>FRAME SIZE</b>	55 mm
<b>SERIES</b>	XT IEC
<b>DUTY FACTOR</b>	100 %
<b>TYPE</b>	Full voltage reversing contactor
<b>10.2.2 CORROSION RESISTANCE</b>	Meets the product standard's requirements.
<b>10.2.4 RESISTANCE TO ULTRA-VIOLET (UV) RADIATION</b>	Meets the product standard's requirements.
<b>10.2.7 INSCRIPTIONS</b>	Meets the product standard's requirements.
<b>RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MAX</b>	240 V
<b>RATED OPERATIONAL CURRENT (IE) AT AC-3, 380 V, 400 V, 415 V</b>	40 A
<b>NUMBER OF AUXILIARY CONTACTS (NORMALLY OPEN CONTACTS)</b>	2

Certification reports

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Declarations of conformity

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Drawings

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eCAD model

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Installation instructions

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Installation videos

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mCAD model

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System overview

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Wiring diagrams

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Eaton is an intelligent power management company dedicated to improving the quality of life and protecting the environment for people everywhere. We are guided by our commitment to do business right, to operate sustainably and to help our customers manage power — today and well into the future. By capitalizing on the global growth trends of electrification and digitalization, we're accelerating the planet's transition to renewable energy and helping to solve the world's most urgent power management challenges.

