

DIL CONTACTORS

278286



Overview



Specifications



Resources

How to

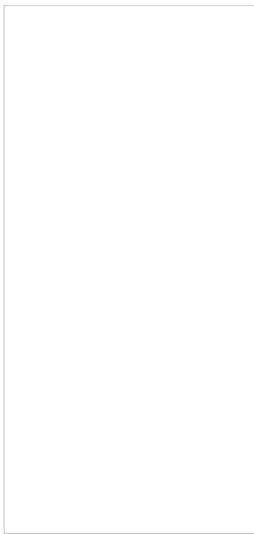


Photo is representative

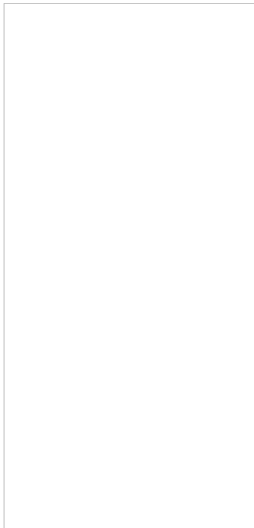


Photo is representative

278286

Eaton Moeller® series SDAINL Star-delta contactor  
5.5 kW, 230 V 50 Hz, 240 V 60 Hz, AC operation



[WIN-WIN with Push-in Terminals](#)

[How to improve wiring](#)

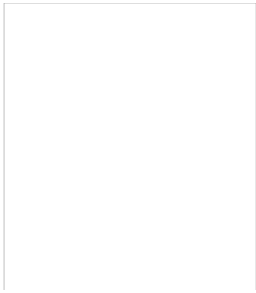


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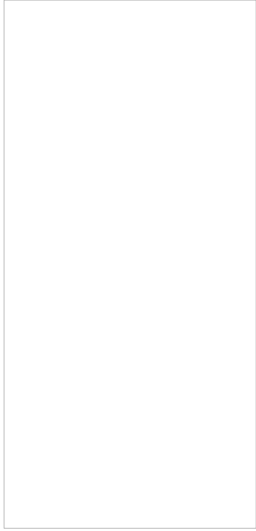


Photo is representative



## Designed to work together

Discover other Eaton products and accessories built to enhance this product.

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**101672**

Eaton Moeller® series DILM Diode suppressor, for DILA, M7-15

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**281200**

Eaton Moeller® series DILM RC suppressor circuit, 110-240VAC, for DILA, DILM7-12

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**136482**

Eaton Moeller® series ZEB Overload relay, Direct mounting, Earth-fault protection: none, I<sub>r</sub>= 4 - 20 A, 1 N/O, 1 N/C ZEB12-20

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**281210**

Eaton Moeller® series DILM Va suppressor circuit, 130 - 240 AC with: DILM7 - DILM15, DILM1

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## GENERAL SPECIFICATIONS

General specifications &gt;

**PRODUCT NAME** Eaton Moeller® series SDAINL contactor combinat**CATALOG NUMBER** 278286

Product specifications &gt;

**MODEL CODE** SDAINLM12(230V50HZ,240V60HZ)**EAN** 4015082782863**PRODUCT LENGTH/DEPTH** 117 mm**PRODUCT HEIGHT** 82 mm**PRODUCT WIDTH** 158 mm**PRODUCT WEIGHT** 1.03 kg**CERTIFICATIONS** CE

## PRODUCT SPECIFICATIONS

**RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)** 7 A**10.11 SHORT-CIRCUIT RATING** Is the panel builder's responsibility. The specifications must be observed.**RATED OPERATIONAL POWER AT AC-3, 380/400 V, 50 HZ** 5.5 kW**OPERATING VOLTAGE AT AC, 50 HZ - MAX** 690 V**RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MIN** 230 V**10.4 CLEARANCES AND CREEPAGE DISTANCES** Meets the product standard's requirements.**10.12 ELECTROMAGNETIC COMPATIBILITY** Is the panel builder's responsibility. The specifications must be observed.**NUMBER OF CONTACTS (NORMALLY CLOSED) AS MAIN CONTACT** 0**10.2.5 LIFTING** Does not apply, since the entire switchgear needs to**RATED OPERATIONAL POWER (NEMA)** 0 kW**OPERATING VOLTAGE AT DC - MAX** 0 V**10.2.3.1 VERIFICATION OF THERMAL STABILITY OF ENCLOSURES** Meets the product standard's requirements.**RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MIN** 0 V

<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>	9
<b>CHANGEOVER TIME</b>	20 s, max.
<b>OPERATING VOLTAGE AT DC - MIN</b>	0 V
<b>AMBIENT OPERATING TEMPERATURE - MAX</b>	60 °C
<b>STATIC HEAT DISSIPATION, NON-CURRENT-DEPENDENT PVS</b>	4.8 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>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
<b>AMBIENT OPERATING TEMPERATURE - MIN</b>	-25 °C
<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>USED WITH</b>	ETR4-51
<b>OPERATING VOLTAGE AT AC, 50 HZ - MIN</b>	24 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>	0.73 W
<b>APPLICATION</b>	Star-delta motor starting for contactor combinations
<b>ACTUATING VOLTAGE</b>	230 V 50 Hz, 240 V 60 Hz
<b>VOLTAGE TYPE</b>	AC
<b>PRODUCT CATEGORY</b>	Contactor combinations

<b>RATED OPERATIONAL POWER AT AC-3, 690 V, 50 HZ</b>	5.5 kW
<b>EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT PVID</b>	2.2 W
<b>HEAT DISSIPATION CAPACITY PDISS</b>	0 W
<b>SUITABLE FOR</b>	Also motors with efficiency class IE3
<b>NUMBER OF AUXILIARY CONTACTS (NORMALLY CLOSED CONTACTS)</b>	0
<b>10.2.3.2 VERIFICATION OF RESISTANCE OF INSULATING MATERIALS TO NORMAL HEAT</b>	Meets the product standard's requirements.
<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>OPERATING VOLTAGE AT AC, 60 HZ - MAX</b>	690 V
<b>10.9.2 POWER-FREQUENCY ELECTRIC STRENGTH</b>	Is the panel builder's responsibility.
<b>DEGREE OF PROTECTION</b>	IP20 NEMA Other
<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>	12 A
<b>10.7 INTERNAL ELECTRICAL CIRCUITS AND CONNECTIONS</b>	Is the panel builder's responsibility.
<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>	Star-delta contactor
<b>OPERATING VOLTAGE AT AC, 60 HZ - MIN</b>	24 V
<b>DUTY FACTOR</b>	100 %
<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>	12 A
<b>NUMBER OF AUXILIARY CONTACTS (NORMALLY OPEN CONTACTS)</b>	3

Catalogs

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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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278286



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.

