

DIL CONTACTORS
278411



Overview



Specifications



Resources

How to

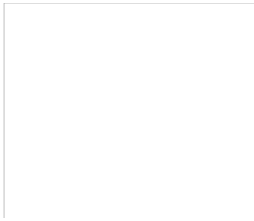
278411

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



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

[How to improve wiring](#)



Designed to work together

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

281203

Eaton Moeller® series DILM RC suppressor circuit, 110 - 240 AC V, For use with: DILM17 - DILM32, DILK12 - DILK25, DILL..., DILMP32 - DILMP45

136497

Eaton Moeller® series ZEB Overload relay, Separate mounting, Earth-fault protection: none, Ir= 9 - 45 A, 1 N/O, 1 N/C

281204

Eaton Moeller® series DILM RC suppressor circuit, 240 - 500 AC V, For use with: DILM17 - DILM32, DILK12 - DILK25, DILL..., DILMP32 - DILMP45

281214

Eaton Moeller® series DILM Va suppressor circuit, 130 - 240 AC V, For use with: DILM17 - DILM32, DILK12 - DILK25, DILL..., DILMP32 - DILMP45, DILM32-XSPV240

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GENERAL SPECIFICATIONS

General specifications



PRODUCT NAME Eaton Moeller® series SDAINL contactor combination

CATALOG NUMBER 278411

Product specifications



MODEL CODE SDAINLM55(230V50HZ,240V60HZ)

EAN 4015082784119

PRODUCT LENGTH/DEPTH 138 mm

PRODUCT HEIGHT 95 mm

PRODUCT WIDTH 158 mm

PRODUCT WEIGHT 1.61 kg

CERTIFICATIONS

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PRODUCT SPECIFICATIONS

RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)	55 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	30 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 be lifted.
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
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MAX	230 V
FREQUENCY RATING	50-60 Hz
10.8 CONNECTIONS FOR EXTERNAL CONDUCTORS	Is the panel builder's responsibility.
NUMBER OF MAIN CONTACTS (NORMALLY OPEN CONTACT)	9
CHANGEOVER TIME	20 s, max.
OPERATING VOLTAGE AT DC - MIN	0 V
AMBIENT OPERATING TEMPERATURE - MAX	60 °C
STATIC HEAT DISSIPATION, NON-CURRENT-DEPENDENT PVS	6.2 W
ELECTRICAL CONNECTION TYPE FOR AUXILIARY- AND CONTROL-CURRENT CIRCUIT	Screw connection
ELECTRICAL CONNECTION TYPE OF MAIN CIRCUIT	Screw connection

RATED CONTROL SUPPLY VOLTAGE(US) AT DC - MAX	0 V
10.9.3 IMPULSE WITHSTAND VOLTAGE	Is the panel builder's responsibility.
UTILIZATION CATEGORY	AC-3: Normal AC induction motors: starting, swit
AMBIENT OPERATING TEMPERATURE- MIN	-25 °C
10.6 INCORPORATION OF SWITCHING DEVICES AND COMPONENTS	Does not apply, since the entire switchgear needs to
10.5 PROTECTION AGAINST ELECTRIC SHOCK	Does not apply, since the entire switchgear needs to
USED WITH	ETR4-51
OPERATING VOLTAGE AT AC, 50 HZ - MIN	24 V
10.13 MECHANICAL FUNCTION	The device meets the requirements, provided the in instruction leaflet (IL) is observed.
10.2.6 MECHANICAL IMPACT	Does not apply, since the entire switchgear needs to
10.9.4 TESTING OF ENCLOSURES MADE OF INSULATING MATERIAL	Is the panel builder's responsibility.
10.3 DEGREE OF PROTECTION OF ASSEMBLIES	Does not apply, since the entire switchgear needs to
HEAT DISSIPATION PER POLE, CURRENT-DEPENDENT PVID	6 W
APPLICATION	Star-delta motor starting for contactor combinations
ACTUATING VOLTAGE	230 V 50 Hz, 240 V 60 Hz
VOLTAGE TYPE	AC
PRODUCT CATEGORY	Contactor combinations
RATED OPERATIONAL POWER AT AC-3, 690 V, 50 HZ	30 kW
EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT PVID	17.9 W
HEAT DISSIPATION CAPACITY PDISS	0 W
SUITABLE FOR	Also motors with efficiency class IE3
NUMBER OF AUXILIARY CONTACTS (NORMALLY CLOSED CONTACTS)	0
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.
OPERATING VOLTAGE AT AC, 60 HZ - MAX	690 V
10.9.2 POWER-FREQUENCY ELECTRIC STRENGTH	Is the panel builder's responsibility.
DEGREE OF PROTECTION	IP00 NEMA Other

NUMBER OF AUXILIARY CONTACTS (CHANGE-OVER CONTACTS)	0
VOLTAGE TYPE OF OPERATING VOLTAGE	AC
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MIN	240 V
RATED OPERATIONAL CURRENT (IE) AT AC-1, 380 V, 400 V, 415 V	55 A
10.7 INTERNAL ELECTRICAL CIRCUITS AND CONNECTIONS	Is the panel builder's responsibility.
10.10 TEMPERATURE RISE	The panel builder is responsible for the temperature Eaton will provide heat dissipation data for the devi
FUNCTIONS	Star-delta contactor
OPERATING VOLTAGE AT AC, 60 HZ - MIN	24 V
DUTY FACTOR	100 %
10.2.2 CORROSION RESISTANCE	Meets the product standard's requirements.
10.2.4 RESISTANCE TO ULTRA-VIOLET (UV) RADIATION	Meets the product standard's requirements.
10.2.7 INSCRIPTIONS	Meets the product standard's requirements.
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MAX	240 V
RATED OPERATIONAL CURRENT (IE) AT AC-3, 380 V, 400 V, 415 V	55 A
NUMBER OF AUXILIARY CONTACTS (NORMALLY OPEN CONTACTS)	3
RATED OPERATIONAL POWER AT AC-3, 500 V, 50 HZ	37 kW

Catalogs

Declarations of conformity

Drawings

eCAD model

Installation instructions

Installation videos

mCAD model

System overview

Wiring diagrams

278411



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