

Specifications



Eaton 239895

Eaton Moeller® series SDAINL Star-delta contactor combination, 380 V 400 V: 37 kW, 230 V 50 Hz, 240 V 60 Hz, AC operation

General specifications

PRODUCT NAME	Eaton Moeller series star-delta contactor combination
CATALOG NUMBER	239895
MODEL CODE	SDAINLM70(230V50HZ,240V60HZ)
EAN	4015082398958
PRODUCT LENGTH/DEPTH	147 mm
PRODUCT HEIGHT	115 mm
PRODUCT WIDTH	188 mm
PRODUCT WEIGHT	2.94 kg
CERTIFICATIONS	CE

Features & Functions

FUNCTIONS	Star-delta contactor
NUMBER OF POLES	Three-pole

Climatic environmental conditions

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

APPLICATION	Star-delta motor starting for contactor combinations
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DEGREE OF PROTECTION	IP00 NEMA Other
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CONNECTION	Screw terminals
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OVERVOLTAGE CATEGORY	III
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POLLUTION DEGREE	3
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PRODUCT CATEGORY	Contactor combinations
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SUITABLE FOR	Also motors with efficiency class IE3
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USED WITH	ETR4-51
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USED WITH	ETR4-51
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UTILIZATION CATEGORY	AC-3: Normal AC induction motors: starting, switch off during running
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VOLTAGE TYPE	AC
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Electro magnetic compatibility

INTERFERENCE IMMUNITY	According to EN 60947-1
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Electrical rating

**RATED OPERATIONAL
CURRENT (IE) AT AC-1,
380 V, 400 V, 415 V** 70 A

**RATED OPERATIONAL
CURRENT (IE) AT AC-3,
380 V, 400 V, 415 V** 70 A

**RATED INSULATION
VOLTAGE (UI)** 690 V

**RATED OPERATIONAL
POWER AT AC-3, 380/400
V, 50 HZ** 37 kW

**RATED OPERATIONAL
POWER AT AC-3, 500 V, 50
HZ** 45 kW

**RATED OPERATIONAL
POWER AT AC-3, 690 V, 50
HZ** 37 kW

Contacts

**NUMBER OF AUXILIARY
CONTACTS (NORMALLY
CLOSED CONTACTS)** 1

**NUMBER OF AUXILIARY
CONTACTS (NORMALLY
OPEN CONTACTS)** 1

Magnet system

CHANGEOVER TIME 20 s, max.

DUTY FACTOR 100 %

**RATED CONTROL SUPPLY
VOLTAGE (US) AT AC, 50
HZ - MIN** 230 V

**RATED CONTROL SUPPLY
VOLTAGE (US) AT AC, 50
HZ - MAX** 230 V

**RATED CONTROL SUPPLY
VOLTAGE (US) AT AC, 60
HZ - MIN** 240 V

**RATED CONTROL SUPPLY
VOLTAGE (US) AT AC, 60
HZ - MAX** 240 V

Design verification

**EQUIPMENT HEAT
DISSIPATION, CURRENT-
DEPENDENT PVID** 20 W

**HEAT DISSIPATION
CAPACITY PDISS** 0 W

**HEAT DISSIPATION PER
POLE, CURRENT-
DEPENDENT PVID** 6.7 W

**RATED OPERATIONAL
CURRENT FOR SPECIFIED
HEAT DISSIPATION (IN)** 70 A

**STATIC HEAT
DISSIPATION, NON-
CURRENT-DEPENDENT
PVS** 10.2 W

**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)** Meets the product
standard's requirements.

RADIATION	
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.
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.

Resources

CATALOGUES	eaton-product-overview-for-machinery-catalogue-ca08103003zen-en-us.pdf
DECLARATIONS OF CONFORMITY	eaton-star-delta-contactor-combination-declaration-of-conformity-eu250764en.pdf eaton-star-delta-contactor-combination-declaration-of-conformity-uk251247en.pdf
DRAWINGS	eaton-star-delta-starters-sdainl-contactor-combination-dimensions.eps eaton-general-ie-ready-dilm-contactor-standards.eps eaton-star-delta-starters-sdainl-contactor-combination-3d-drawing.eps
ECAD MODEL	ETN.SDAINLM70(230V50HZ,240V60HZ).edz
INSTALLATION INSTRUCTIONS	IL03407030Z IL03407033Z
MCAD MODEL	sdainlm115_a.stp eaton-iec-contactors-mcad-drawings-sdainlm115-a.dwg
SYSTEM OVERVIEW	eaton-star-delta-starters-star-delta-sdainl-contactor-combination-explosion-drawing.eps
WIRING DIAGRAMS	eaton-contactors-contact-sdainl-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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