Specifications

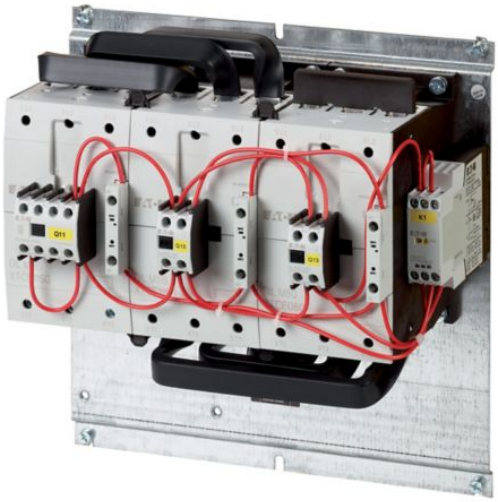
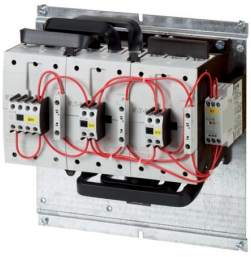


Photo is representative



Eaton 240009

Eaton Moeller® series SDAINL Star-delta contactor combination, 380 V 400 V: 75 kW, 230 V 50 Hz, 240 V 60 Hz, AC operation

General specifications

PRODUCT NAME	Eaton Moeller series star-delta contactor combination
CATALOG NUMBER	240009
MODEL CODE	SDAINLM140(230V50HZ,240V60HZ)
EAN	4015082400095
PRODUCT LENGTH/DEPTH	174 mm
PRODUCT HEIGHT	170 mm
PRODUCT WIDTH	258 mm
PRODUCT WEIGHT	10.01 kg
CERTIFICATIONS	CE
GLOBAL CATALOG	240009

Powering Business Worldwide

Product specifications

USED WITH	ETR4-51
ELECTRICAL CONNECTION TYPE FOR AUXILIARY- AND CONTROL-CURRENT CIRCUIT	Screw connection
NUMBER OF POLES	Three-pole
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-3: Normal AC induction motors: starting, switch off during running
CONNECTION	Screw terminals
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	23.8 W
HEAT DISSIPATION CAPACITY PDISS	0 W
HEAT DISSIPATION PER	7.9 W

POLE, CURRENT-DEPENDENT PVID	
APPLICATION	Star-delta motor starting for contactor combinations
PRODUCT CATEGORY	Contactor combinations
ELECTRICAL CONNECTION TYPE OF MAIN CIRCUIT	Screw connection
VOLTAGE TYPE	AC
DEGREE OF PROTECTION	IP00 NEMA Other
NUMBER OF AUXILIARY CONTACTS (NORMALLY CLOSED CONTACTS)	1
NUMBER OF AUXILIARY CONTACTS (NORMALLY OPEN CONTACTS)	1
NUMBER OF CONTACTS (NORMALLY CLOSED) AS MAIN CONTACT	0
NUMBER OF MAIN CONTACTS (NORMALLY OPEN CONTACT)	9
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
OVERVOLTAGE CATEGORY	III
DUTY FACTOR	100 %
CHANGEOVER TIME	20 s, max.
INTERFERENCE IMMUNITY	According to EN 60947-1
FUNCTIONS	Star-delta contactor
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	140 A
RATED OPERATIONAL CURRENT (IE) AT AC-3, 380 V, 400 V, 415 V	140 A
RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)	140 A
RATED OPERATIONAL POWER AT AC-3, 380/400 V, 50 HZ	75 kW
RATED OPERATIONAL POWER (NEMA)	0 kW
STATIC HEAT DISSIPATION, NON-CURRENT-DEPENDENT PVS	13.6 W
SUITABLE FOR	Also motors with efficiency class IE3
RATED OPERATIONAL POWER AT AC-3, 500 V, 50 HZ	90 kW
RATED OPERATIONAL POWER AT AC-3, 690 V, 50 HZ	90 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	230 V
OPERATING VOLTAGE AT AC, 50 HZ - MAX	690 V
OPERATING VOLTAGE AT AC, 60 HZ - MIN	230 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

CATALOGS	eaton-product-overview-for-machinery-catalogue-ca08103003zen-en-us.pdf
DECLARATIONS OF CONFORMITY	eaton-star-delta-contactor-combination-declaration-of-conformity-uk251247en.pdf

	eaton-star-delta-contactor-combination-declaration-of-conformity-eu250764en.pdf
DRAWINGS	eaton-star-delta-starters-sdainl-contactor-combination-dimensions-002.eps eaton-star-delta-starters-sdainl-contactor-combination-3d-drawing-002.eps eaton-general-ie-ready-dilm-contactor-standards.eps
ECAD MODEL	ETN.SDAINLM140(230V50HZ,240V60HZ).edz
INSTALLATION INSTRUCTIONS	IL03407030Z eaton-dil-contactors-instruction-leaflet-il03407039z.pdf
MCAD MODEL	sdainlm140_165 sdainlm140_165.stp
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:	

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