DATASHEET - SDAINLM12(24VDC)

Star-delta contactor combination, 380 V 400 V: 5.5 kW, 24 V DC, DC operation



Part no.

SDAINLM12(24VDC) 100416

General specifications	
Product name	Eaton Moeller® series SDAINL contactor combination
Part no.	SDAINLM12(24VDC)
EAN	4015081003938
Product Length/Depth	117 millimetre
Product height	82 millimetre
Product width	158 millimetre
Product weight	1.19 kilogram
Compliances	Contact Manufacturer
Certifications	CE
Product Tradename	SDAINL
Product Type	Contactor combination
Product Sub Type	None
Catalog Notes	Contacts according to EN 50012
Features & Functions	
Functions	Star-delta contactor
General information	
Application	Star-delta motor starting for contactor combinations
Degree of protection	IP20 NEMA Other
Product category	Contactor combinations
Suitable for	Also motors with efficiency class IE3
Used with	ETR4-51
Utilization category	AC-3: Normal AC induction motors: starting, switch off during running
Voltage type	DC
Climatic environmental conditions	
Ambient operating temperature - min	-25 °C
Ambient operating temperature - max	60 °C
Electrical rating	
Rated operational current (Ie) at AC-1, 380 V, 400 V, 415 V	12 A
Rated operational current (Ie) at AC-3, 380 V, 400 V, 415 V	12 A
Rated operational power at AC-3, 380/400 V, 50 Hz	5.5 kW
Rated operational power at AC-3, 500 V, 50 Hz	5.5 kW
Rated operational power at AC-3, 690 V, 50 Hz	5.5 kW
Magnet system	
Changeover time	20 s, max.
Duty factor	100 %
Rated control supply voltage (Us) at AC, 50 Hz - min	
Rated control supply voltage (Us) at AC, 50 Hz - max	
Rated control supply voltage (Us) at AC, 60 Hz - min	
Rated control supply voltage (Us) at AC, 60 Hz - max	
Rated control supply voltage (Us) at DC - min	24 V
Rated control supply voltage (Us) at DC - max	24 V
Contacts	
Number of auxiliary contacts (normally closed contacts)	0
Number of auxiliary contacts (normally open contacts)	3
Design verification	

Equipment heat dissipation, current-dependent Pvid	2.8 W
Heat dissipation capacity Pdiss	0 W
Heat dissipation per pole, current-dependent Pvid	0.93 W
Rated operational current for specified heat dissipation (In)	7 A
Static heat dissipation, non-current-dependent Pvs	7.8 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) 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.
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.

Technical data ETIM 9.0

Low-voltage industrial components (EG000017) / Combination of contactors (EC000010)

Electric engineering, automation, process control engineering / Low-voltage switch	h technology / C	ontactor	(LV) / Combination of contactor (ecl@ss13-27-37-10-09 [AGZ572019])
Function			Star-delta contactor
Rail mounting possible			No
Rated control supply voltage AC 50 Hz		V	0 - 0
Rated control supply voltage AC 60 Hz		V	0 - 0
Rated control supply voltage DC		V	24 - 24
Voltage type for actuating			DC
Number of normally closed contacts as main contact			0
Number of normally open contacts as main contact			9
Type of electrical connection of main circuit			Screw connection
Voltage type (operating voltage)			AC
Operating voltage AC 50 Hz		V	24 - 690
Operating voltage AC 60 Hz		V	24 - 690
Operating voltage DC		V	0 - 0
Rated operation current le at AC-1, 400 V		А	12
Rated operation current le at AC-3, 400 V		Α	12
Rated operation power at AC-3, 400 V		kW	5.5
Rated operation power NEMA		kW	0
Number of auxiliary contacts as normally closed contact			0
Number of auxiliary contacts as normally open contact			3
Number of auxiliary contacts as change-over contact			0
Type of electrical connection for auxiliary- and control current circuit			Screw connection
Degree of protection (IP)			IP20
Degree of protection (NEMA)			Other

Width	mm	158
Height	mm	82
Depth	mm	117