

Star-delta contactor combination, 380 V 400 V: 11 kW, 24 V DC, DC operation
Part no. **SDAINLM22(24VDC)**
100418

General specifications		
Product name		Eaton Moeller® series SDAINL contactor combination
Part no.		SDAINLM22(24VDC)
EAN		4015081003952
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		22 A
Rated operational current (Ie) at AC-3, 380 V, 400 V, 415 V		22 A
Rated operational power at AC-3, 380/400 V, 50 Hz		11 kW
Rated operational power at AC-3, 500 V, 50 Hz		11 kW
Rated operational power at AC-3, 690 V, 50 Hz		11 kW
Magnet system		
Changeover time		20 s, max.
Duty factor		100 %
Rated control supply voltage (Us) at AC, 50 Hz - min		0 V
Rated control supply voltage (Us) at AC, 50 Hz - max		0 V
Rated control supply voltage (Us) at AC, 60 Hz - min		0 V
Rated control supply voltage (Us) at AC, 60 Hz - max		0 V
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			6.11 W
Heat dissipation capacity Pdis			0 W
Heat dissipation per pole, current-dependent Pvid			2.04 W
Rated operational current for specified heat dissipation (In)			12.76 A
Static heat dissipation, non-current-dependent Pvs			10.8 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 technology / Contactor (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 Ie at AC-1, 400 V		A	22
Rated operation current Ie at AC-3, 400 V		A	22
Rated operation power at AC-3, 400 V		kW	11
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