Star-delta contactor combination, 380 V 400 V: 37 kW, 230 V 50 Hz, 240 V 60 Hz, AC operation



Part no. SDAINLM70(230V50HZ,240V60HZ)

Catalog No. 239895

Alternate Catalog XTSD070D11F

No.

EL-Nummer 4131005

(Norway)

Delivery program

Delivery program			
Product range			Contactor combinations
Application			Star-delta motor starting for contactor combinations
Accessories			Star-delta combinations SDAINL
Utilization category			NAC-3: Normal AC induction motors: starting, switch off during running
Notes			Also suitable for motors with efficiency class IE3.
Description			Operating frequency: maximum 30 starts per hour
Rated operational current			
AC-3			
380 V 400 V	l _e	Α	70
Max. rating for three-phase motors, 50 - 60 Hz			
AC-3			
220 V 230 V	P	kW	18.5
380 V 400 V	P	kW	37
500 V	P	kW	45
660 V 690 V	P	kW	37
Max. changeover time		s	20
Actuating voltage			230 V 50 Hz, 240 V 60 Hz
Voltage AC/DC			AC operation
Individual components of the combination			
Mains contactor Q11		Part no.	DILM40 + DILM150-XHI31
Delta contactor Q15		Part no.	DILM40 + DILM150-XHI11
Star contactor Q13		Part no.	DILM40 + DILM150-XHI11
Timing relay K1		Part no.	ETR4-51

Design verification as per IEC/EN 61439

Technical data for design verification			
Rated operational current for specified heat dissipation	In	Α	70
Heat dissipation per pole, current-dependent	P _{vid}	W	6.7
Equipment heat dissipation, current-dependent	P _{vid}	W	20
Static heat dissipation, non-current-dependent	P _{vs}	W	10.2
Heat dissipation capacity	P _{diss}	W	0
Operating ambient temperature min.		°C	-25
Operating ambient temperature max.		°C	60
IEC/EN 61439 design verification			
10.2 Strength of materials and parts			
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.
$10.2.3.3\ Verification\ of\ resistance\ of\ insulating\ materials\ to\ abnormal\ heat\ and\ fire\ due\ to\ internal\ electric\ effects$			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 Insulation properties	
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 observed.
10.12 Electromagnetic compatibility	Is the panel builder's responsibility. The specifications for the switchgear must observed.
10.13 Mechanical function	The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.

Technical data ETIM 7.0

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@ss10.0.1-27-37-10-09 [AGZ572014])				
Function			Star-delta contactor	
Rated control supply voltage Us at AC 50HZ		V	230 - 230	
Rated control supply voltage Us at AC 60HZ		V	240 - 240	
Rated control supply voltage Us at DC		V	0 - 0	
Voltage type for actuating			AC	
Rated operation current le at AC-1, 400 V			70	
Rated operation current le at AC-3, 400 V		Α	70	
Rated operation power at AC-3, 400 V		kW	37	
Rated operation power NEMA		kW	0	
Number of normally closed contacts as main contact			0	
Number of main contacts as normally open contact			9	
Type of electrical connection for auxiliary- and control current circuit			EV000415	
Type of electrical connection of main circuit			Screw connection	
Degree of protection (IP)			IP00	
Degree of protection (NEMA)			Other	
Rail mounting possible			Yes	