

Part no. Article no.

Catalog No.

Star-delta contactor combination, 3p, 90kW/400V/AC3

XTSD165F11F

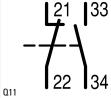
240035

SDAINLM165(230V50HZ,240V60HZ)



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
			IE3 🗸
Notes			Also suitable for motors with efficiency class IE3. IE3-ready devices are identified by the logo on their packaging.
Description			Operating frequency: maximum 30 starts per hour
Rated operational current			
AC-3			
380 V 400 V	Ι _e	А	165
Max. rating for three-phase motors, 50 - 60 Hz			
AC-3			
220 V 230 V	Р	kW	45
380 V 400 V	Р	kW	90
500 V	Р	kW	110
660 V 690 V	Р	kW	132
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.	DILM95 + DILM150-XHI31
Delta contactor Q15		Part no.	DILM95 + DILM150-XHI11
Star contactor Q13		Part no.	DILM65 + DILM150-XHI11
Timing relay K1		Part no.	ETR4-51
Spare auxiliary contacts			



Design verification as per IEC/EN 61439

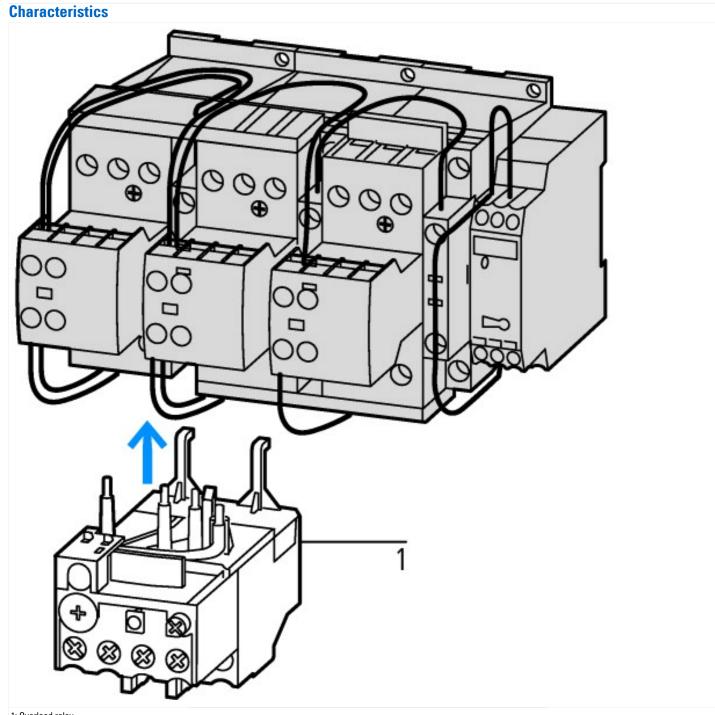
,,,,,,,,,			
Technical data for design verification			
Rated operational current for specified heat dissipation	In	А	165
Heat dissipation per pole, current-dependent	P _{vid}	W	10.9
Equipment heat dissipation, current-dependent	P _{vid}	W	32.6
Static heat dissipation, non-current-dependent	P _{vs}	W	13.6
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	Meets the product standard's requirements.
and fire due to internal electric effects	weets the product standard 5 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 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.

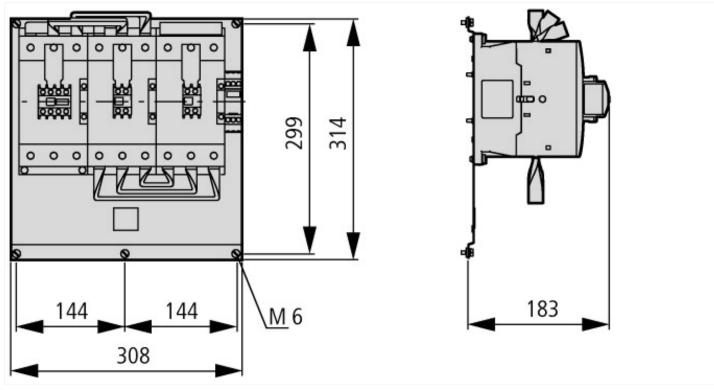
Technical data ETIM 6.0

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@ss8.1-27-37-10-09 [AGZ572011])					
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-3, 400 V	А	165			
Rated operation power at AC-3, 400 V	kW	90			
Type of electrical connection of main circuit		Screw connection			
Degree of protection (IP)		IP00			



1: Overload relay



Additional product information (links)

IL03407030Z (AWA2100-2139) Wiring for contactor combinations

IL03407030Z (AWA2100-2139) Wiring for contactor combinations ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL03407030Z2011_07.pdf