278386 SDAINLM45(230V50HZ,240V60HZ)

Star-delta contactor combination, 380 V 400 V: 22 kW, 230 V 50 Hz, 240 V 60 Hz, AC operation

Alternate Catalog No.	XTSD045C10F
EL-Nummer (Norway)	4130488

Star-delta contactor combination, Application: Star-delta motor starting for contactor combinations, Operating frequency: maximum 30 starts per hour, Accessories: Star-delta combinations SDAINL, Utilization category: NAC-3: Normal AC induction motors: starting, switch off during running, Rated operational current AC-3 380 V 400 V: Ie= 45 A, Max. rating for three-phase motors, 50 - 60 Hz AC-3 220 V 230 V: P= 11 kW, 380 V 400 V: P= 22 kW, 500 V: P= 30 kW, 660 V 690 V: P= 22 kW, Max. changeover time: 20 s, Actuating voltage: 230 V 50 Hz, 240 V 60 Hz, Voltage AC/DC: AC operation, Individual components of the combination Mains contactor Q11: DILM25-10, + DILA-XHI20, Delta contactor Q15: DILM25-01, + DILA-XHI20 Part no., Star contactor Q13: DILM17-01, + DILA-XHI20 Part no., Timing relay K1: ETR4-51 Part no., Notes: Also suitable for motors with efficiency class IE3

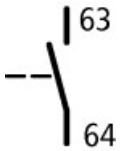
- Delivery program
- Design verification as per IEC/EN 61439
- Technical data ETIM 7.0
- Characteristics
- Dimensions

Delivery program

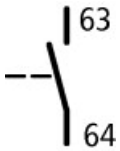
Product range
Contactor combinations
Application
Star-delta motor starting for contactor combinations
Accessories
Star-delta combinations SDAINL
Utilization category
NAC-3: Normal AC induction motors: starting, switch off during running

Notes
Also suitable for motors with efficiency class IE3.
Description
Operating frequency: maximum 30 starts per hour
Rated operational current [I_e]
AC-3 380 V 400 V [I_e]
45 A
Max. rating for three-phase motors, 50 - 60 Hz
AC-3 220 V 230 V [P]
11 kW
AC-3 380 V 400 V [P]
22 kW
AC-3 500 V [P]
30 kW

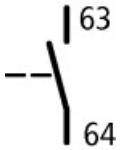
AC-3660 V 690 V [P]
22 kW
Max. changeover time
< 20 s
Actuating voltage
230 V 50 Hz, 240 V 60 Hz
Voltage AC/DC
AC operation
Individual components of the combination
Mains contactor Q11
DILM25-10
+ DILA-XHI20 Part no.
Delta contactor Q15
DILM25-01
+ DILA-XHI20 Part no.
Star contactor Q13
DILM17-01
+ DILA-XHI20 Part no.
Timing relay K1
ETR4-51 Part no.
Q11



Q13



Q15



Design verification as per IEC/EN 61439

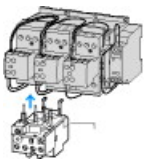
Technical data for design verification
Rated operational current for specified heat dissipation [I_n]
45 A
Heat dissipation per pole, current-dependent [P_{vid}]
4.1 W
Equipment heat dissipation, current-dependent [P_{vid}]
12.4 W
Static heat dissipation, non-current-dependent [P_{vs}]
6.2 W
Heat dissipation capacity [P_{diss}]
0 W
Operating ambient temperature min.
-25 °C
Operating ambient temperature max.
+60 °C
IEC/EN 61439 design verification
10.2 Strength of materials and parts10.2.2 Corrosion resistance
Meets the product standard's requirements.
10.2 Strength of materials and parts10.2.3.1 Verification of thermal stability of enclosures
Meets the product standard's requirements.
10.2 Strength of materials and parts10.2.3.2 Verification of resistance of insulating materials to normal heat
Meets the product standard's requirements.
10.2 Strength of materials and parts10.2.3.3 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric effects
Meets the product standard's requirements.
10.2 Strength of materials and parts10.2.4 Resistance to ultra-violet (UV) radiation
Meets the product standard's requirements.
10.2 Strength of materials and parts10.2.5 Lifting

Does not apply, since the entire switchgear needs to be evaluated.
10.2 Strength of materials and parts10.2.6 Mechanical impact
Does not apply, since the entire switchgear needs to be evaluated.
10.2 Strength of materials and parts10.2.7 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 properties10.9.2 Power-frequency electric strength
Is the panel builder's responsibility.
10.9 Insulation properties10.9.3 Impulse withstand voltage
Is the panel builder's responsibility.
10.9 Insulation properties10.9.4 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 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
230 - 230 V
Rated control supply voltage Us at AC 60HZ
240 - 240 V
Rated control supply voltage Us at DC
0 - 0 V
Voltage type for actuating
AC
Rated operation current Ie at AC-3, 400 V
45 A
Rated operation power at AC-3, 400 V
22 kW
Rated operation power NEMA
0 kW
Type of electrical connection of main circuit
Screw connection
Degree of protection (IP)
IP00
Degree of protection (NEMA)
Other

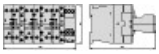
Characteristics



Accessories

1: Overload relay

Dimensions


Basic unit with auxiliary contact module

CAD data

- Product-specific CAD data
  (Web)
- 3D Preview
  (Web)

DWG files

- DA-CD-sdainl_bg2
  File
  (Web)

edz files

- DA-CE-ETN.SDAINLM45(230V50HZ,240V60HZ)
  File
  (Web)

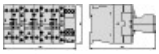
Step files

- DA-CS-sdainl_bg2
  File
  (Web)

Product photo

- 
  2210PIC-212
  Photo

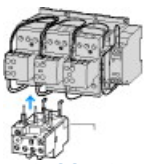
Dimensions single product

- 
  221X010
  Line drawing
  Star-delta combination

3D drawing

- 2210DRW-2
  Line drawing
  Star-delta combination, size 2

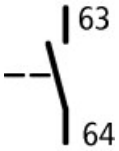
Explosion drawing

- 
  2210CON-1
  Line drawing
  Star-delta combination, size 2

Standards

- 0000SPC-571
  Logo
  IE3-ready logo 4c

Wiring diagram

- 

  210S070
  Line drawing
  Contactor contact representation

Instruction Leaflet

- Wiring for contactor combinations (IL03407030Z)
  Asset
  former AWA2100-2139
  (PDF, 05/2018, multilingual)
- DILM17 - DILM32, XTCE018 - XTCE032 Contactors: complete devices (IL03407044Z)
  Asset
  former AWA2100-2292
  (PDF, 05/2018, multilingual)

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