



278311

SDAINLM16(230V50HZ,240V60HZ)

Overview

Specifications

Resources



Delivery program

Design verification as per IEC/EN 61439

Technical data ETIM7.0

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]
16 A

Max. rating for three-phase motors, 50 - 60 Hz

AC-3
220 V 230 V [P]
4 kW

AC-3
380 V 400 V [P]
7.5 kW

AC-3
500 V [P]
7.5 kW

AC-3
660 V 690 V [P]
7.5 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
DILM9-10
+ DLA-XH20 Part no.

Delta contactor Q15
DILM9-01
+ DLA-XH20 Part no.

Star contactor Q13

DLM7-01
+ DILA-XH20 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]
9.28 A

Heat dissipation per pole, current-dependent [P_{vid}]
0.94 W

Equipment heat dissipation, current-dependent
[P_{vid}]
2.82 W

Static heat dissipation, non-current-dependent [P_{vs}]
4.8 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 parts
10.2.2 Corrosion resistance
Meets the product standard's requirements.

10.2 Strength of materials and parts
10.2.3.1 Verification of thermal stability of enclosures
Meets the product standard's requirements.

10.2 Strength of materials and parts
10.2.3.2 Verification of resistance of insulating materials to normal heat
Meets the product standard's requirements.

10.2 Strength of materials and parts
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 Strength of materials and parts
10.2.4 Resistance to ultra-violet (UV) radiation
Meets the product standard's requirements.

10.2 Strength of materials and parts
10.2.5 Lifting
Does not apply, since the entire switchgear needs to be evaluated.

10.2 Strength of materials and parts
10.2.6 Mechanical impact
Does not apply, since the entire switchgear needs to be evaluated.

10.2 Strength of materials and parts
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 Insulation properties

10.9.3 Impulse withstand voltage

Is the panel builder's responsibility.

10.9 Insulation properties

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 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 U_s at AC 50HZ
230 - 230 V

Rated control supply voltage U_s at AC 60HZ
240 - 240 V

Rated control supply voltage U_s at DC
0 - 0 V

Voltage type for actuating
AC

Rated operation current I_e at AC-3, 400 V
16 A

Rated operation power at AC-3, 400 V
7.5 kW

Rated operation power NEVA
0 kW

Type of electrical connection of main circuit
Screw connection

Degree of protection (IP)
IP20

Degree of protection (NEVA)
Other

CHARACTERISTICS



Accessories
1: Overload relay

DIMENSIONS



Basic unit with auxiliary contact module



