



Notes Also suitable for motors with efficiency class IE3.

Description Operating frequency: maximum 30 starts per hour

### Rated operational current [le ]

AC-3 380 V 400 V [le] 22 A

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

AC-3 220 V 230 V [P] 5.5 kW

AC-3 380 V 400 V [P] 11 kW

AC-3 500 V [P] 11 kW

AC-3 660 V 690 V [P] 11 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 DILM12-10 + DILA-XH20 Part no.

Delta contactor Q15 DILM12-01 + DILA-XHI20 Part no.

Star contactor Q13

DILM7-01 + DILA-XHI20 Part no.

Timing relay K1 ETR4-51 Part no.



# **DESIGN VERIFICATION AS PER IEC/EN 61439**

### Technical data for design verification

Rated operational current for specified heat dissipation  $[I_n]$  12.76 A

Heat dissipation per pole, current-dependent  $[\mathsf{R}_{\text{id}}]$  1.37 W

Equipment heat dissipation, current-dependent  $[P_{id}] \\ 4.1 \, W$ 

Static heat dissipation, non-current-dependent  $[\mathrm{P}_{\mathrm{vs}}]$  4.8 W

Heat dissipation capacity [Pdiss]

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 resistanceMeets the product standard's requirements.

10.2 Strength of materials and parts10.2.3.1 Verification of thermal stability of enclosuresMeets the product standard's requirements.

10.2 Strength of materials and parts10.2.3.2 Verification of resistance of insulating materials to normal heatMeets 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 parts10.2.4 Resistance to ultra-violet (UV) radiationMeets the product standard's requirements.

10.2 Strength of materials and parts10.2.5 LiftingDoes not apply, since the entire switchgear needs to be evaluated.

10.2 Strength of materials and parts10.2.6 Mechanical impactDoes not apply, since the entire switchgear needs to be evaluated.

10.2 Strength of materials and parts10.2.7 InscriptionsMeets the product standard's requirements.

10.3 Degree of protection of ASSEVBLIES 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 strengthIs the panel builder's responsibility.

10.9 Insulation properties10.9.3 Impulse withstand voltageIs the panel builder's responsibility.

10.9 Insulation properties10.9.4 Testing of enclosures made of insulating materialIs 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 (EC000017) / 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 le at AC-3, 400 V 22 A  $\,$ 

Rated operation pow er at AC-3, 400 V 11 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





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