DATASHEET - SDAINLM90(230V50HZ,240V60HZ)



Star-delta contactor combination, 380 V 400 V: 45 kW, 230 V 50 Hz, 240 V 60 Hz, AC operation



Powering Business Worldwide

Part no. SDAINLM90(230V50HZ,240V60HZ)

Catalog No. 239937

Alternate Catalog XTSD090D11F

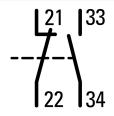
No.

EL-Nummer 4131006

(Norway)

Delivery program

| | | Contactor combinations Star-delta motor starting for contactor combinations Star-delta combinations SDAINL NAC-3: Normal AC induction motors: starting, switch off during running |
|----------------|-------------|---|
| | | Star-delta combinations SDAINL |
| | | |
| | | NAC-3: Normal AC induction motors: starting, switch off during running |
| | | |
| | | IE3 ✓ |
| | | Also suitable for motors with efficiency class IE3. IE3-ready devices are identified by the logo on their packaging. |
| | | Operating frequency: maximum 30 starts per hour |
| | | |
| | | |
| I _e | Α | 90 |
| | | |
| | | |
| Р | kW | 22 |
| P | kW | 45 |
| P | kW | 55 |
| P | kW | 45 |
| | s | 20 |
| | | 230 V 50 Hz, 240 V 60 Hz |
| | | AC operation |
| | | |
| | Part no. | DILM50 + DILM150-XHI31 |
| | Part no. | DILM50 + DILM150-XHI11 |
| | Part no. | DILM40 + DILM150-XHI11 |
| | Part no. | ETR4-51 |
| | P P P | P kW P kW P kW S P art no. Part no. |



Q11

Design verification as per IEC/EN 61439

| Technical data for design verification | | | |
|--|------------------|---|------|
| Rated operational current for specified heat dissipation | In | Α | 90 |
| Heat dissipation per pole, current-dependent | P _{vid} | W | 10.7 |
| Equipment heat dissipation, current-dependent | P _{vid} | W | 32.1 |
| Static heat dissipation, non-current-dependent | P _{vs} | W | 10.2 |

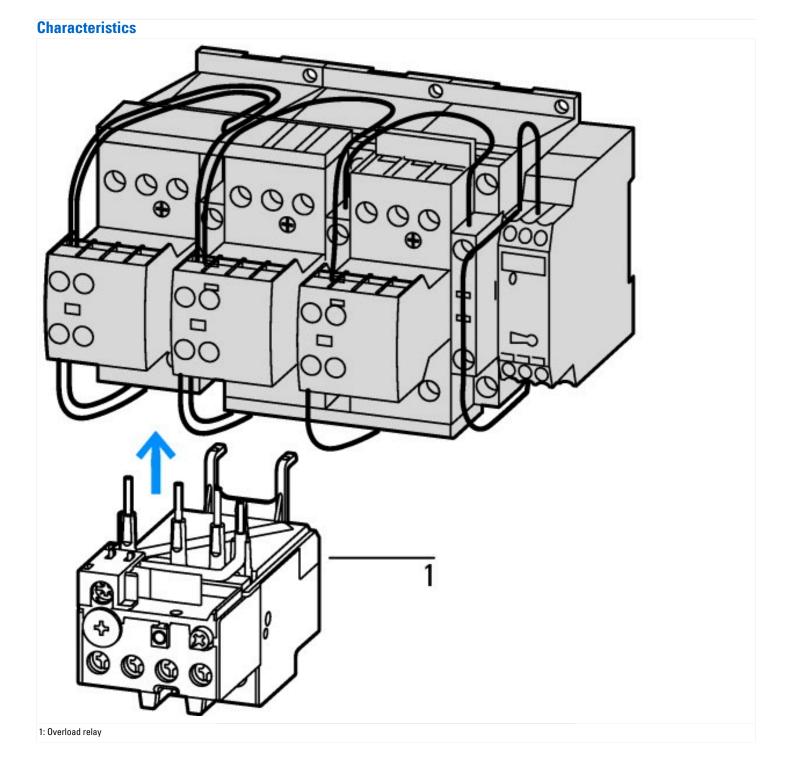
| Heat dissipation capacity | P _{diss} | W | 0 |
|--|-------------------|----|--|
| Operating ambient temperature min. | | °C | -25 |
| Operating ambient temperature max. | | °C | 60 |
| IEC/EN 61439 design verification | | | |
| 10.2 Strength of materials and parts | | | |
| 10.2.2 Corrosion resistance | | | 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 switch gear must be observed. $\label{eq:specification}$ |
| 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

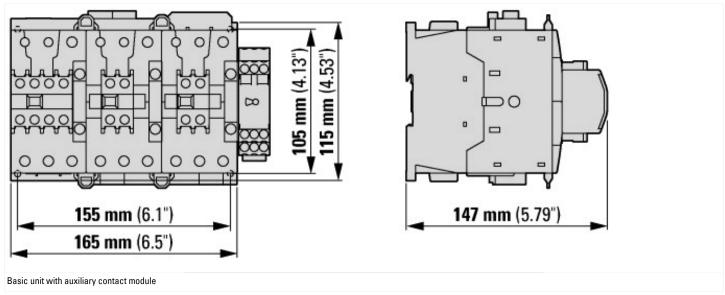
Low-voltage industrial components (EG000017) / Combination of contactors (EC000010)

Electric engineering, automation, process control engineering / Low-voltage switch technology / Contactor (LV) / Combination of contactor (ecl@ss10.0.1-27-37-10-09 [AGZ572014])

| 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-3, 400 V | | Α | 90 | | |
| Rated operation power at AC-3, 400 V | | kW | 45 | | |
| Rated operation power NEMA | | kW | 0 | | |
| Type of electrical connection of main circuit | | | Screw connection | | |
| Degree of protection (IP) | | | IP00 | | |
| Degree of protection (NEMA) | | | Other | | |



Dimensions



Additional product information (links)

IL03407030Z (AWA2100-2139) Wiring for contactor combinations

IL03407030Z (AWA2100-2139) Wiring for contactor combinations

https://es-assets.eaton.com/DOCUMENTATION/AWA_INSTRUCTIONS/IL03407030Z2018_05.pdf