



## Star-delta contactor combination, 3p, 55kW/400V/AC3



Powering Business Worldwide™

**Part no.** SDAINLM115(110V50HZ,120V60HZ)  
**Article no.** 239960  
**Catalog No.** XTSD115D11A

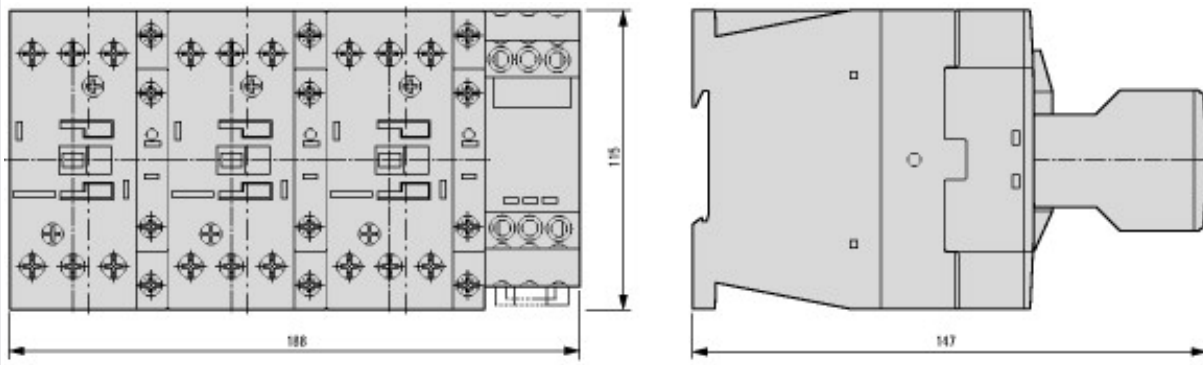
### Design verification as per IEC/EN 61439

| Technical data for design verification   |            |   |  |
|--|------------|---|--|
| Rated operational current for specified heat dissipation   | $I_n$      | A | 115  |
| Heat dissipation per pole, current-dependent   | $P_{vid}$  | W | 17.2   |
| Equipment heat dissipation, current-dependent  | $P_{vid}$  | W | 51.6   |
| Static heat dissipation, non-current-dependent   | $P_{vs}$   | W | 10.2   |
| Heat dissipation capacity  | $P_{diss}$ | W | 0  |
| 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 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 $U_s$ at AC 50HZ   |  | V  | 110 - 110            |
| Rated control supply voltage $U_s$ at AC 60HZ   |  | V  | 120 - 120            |
| Rated control supply voltage $U_s$ at DC  |  | V  | 0 - 0                |
| Voltage type for actuating  |  |    | AC                   |
| Rated operation current $I_e$ at AC-3, 400 V  |  | A  | 115                  |
| Rated operation power at AC-3, 400 V  |  | kW | 55                   |
| Type of electrical connection of main circuit   |  |    | Screw connection     |
| Degree of protection (IP)   |  |    | IP00                 |

## Dimensions



Basic unit with auxiliary contact module