



Contactors, 3p, 18.5kW/400V/AC3

Part no. DILM40(48V50HZ)
Article no. 277754
Catalog No. XTCE040D00Y

Design verification as per IEC/EN 61439

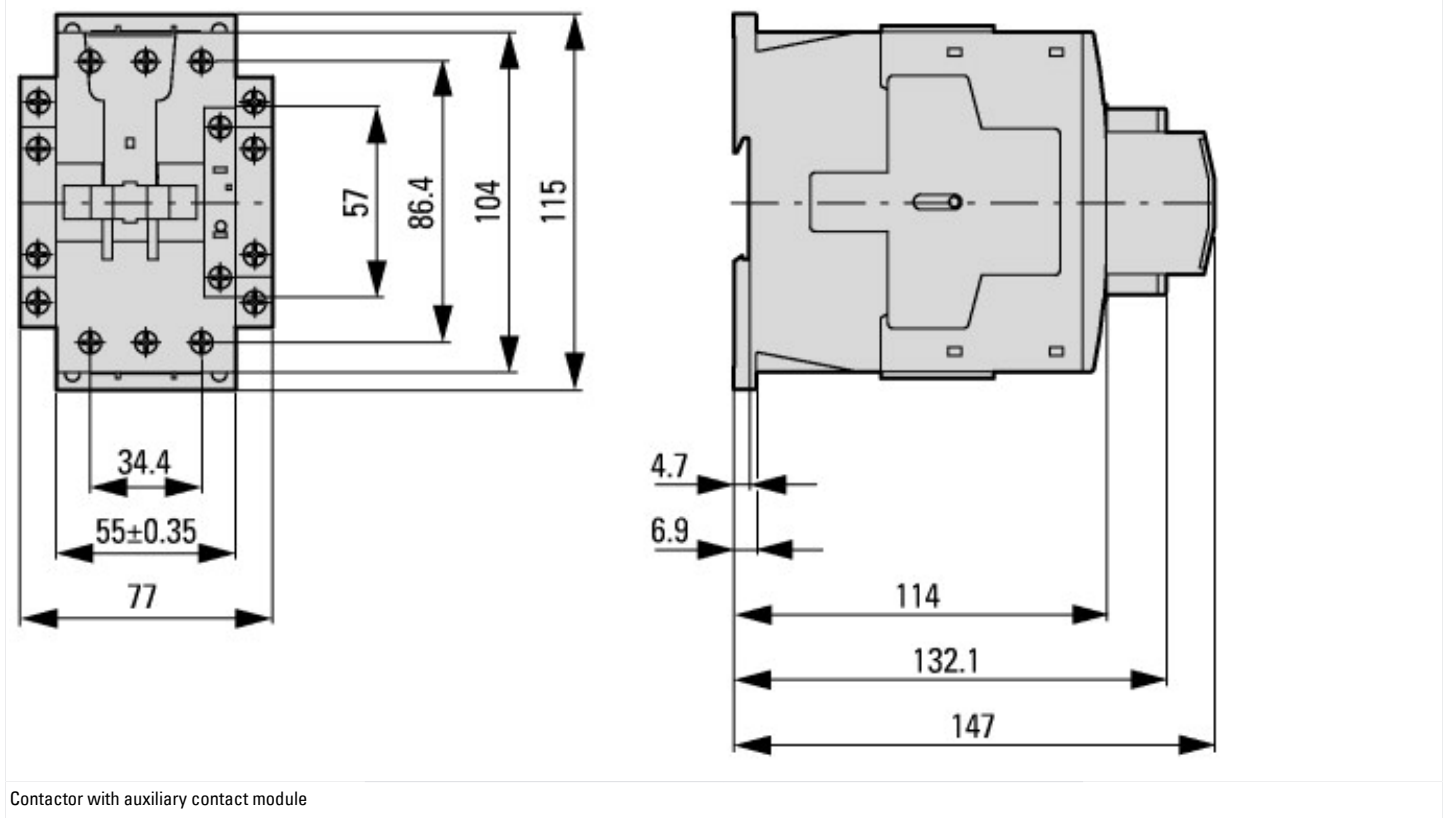
| Technical data for design verification | | | |
|------------------------------------------------------------------------------------------------------------------------|------------|---|----------------------------------------------------------------------------------------------------------------------------------|
| Rated operational current for specified heat dissipation | I_n | A | 40 |
| Heat dissipation per pole, current-dependent | P_{vid} | W | 2.2 |
| Equipment heat dissipation, current-dependent | P_{vid} | W | 6.6 |
| Static heat dissipation, non-current-dependent | P_{vs} | W | 4.1 |
| 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. |

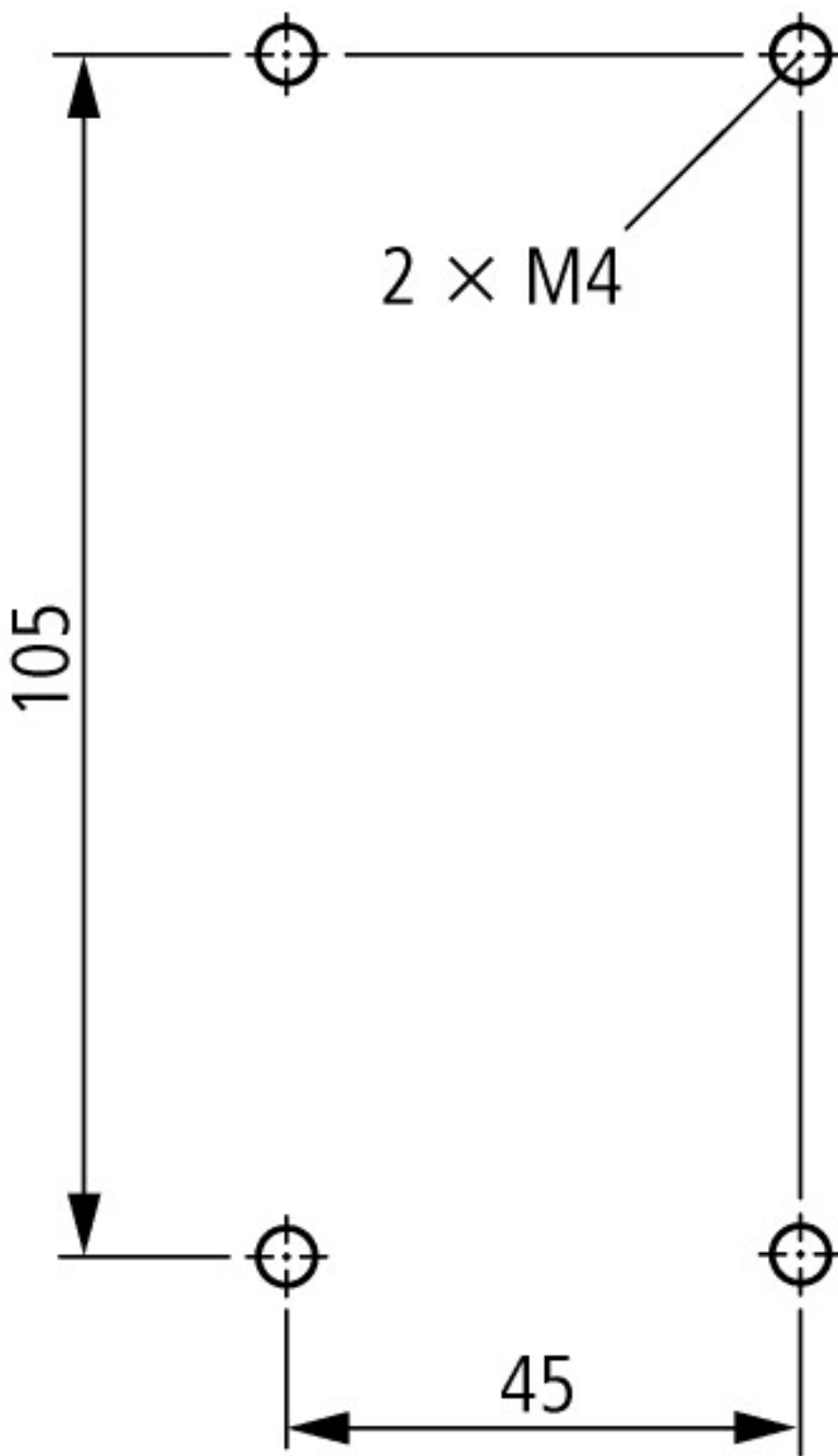
Technical data ETIM 5.0

| Low-voltage industrial components (EG000017) / Magnet contactor, AC-switching (EC000066) | | | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|--|---------|
| Electric engineering, automation, process control engineering / Low-voltage switch technology / Contactor (LV) / Power contactor, AC switching (ecl@ss8-27-37-10-03 [AAB718011]) | | | |
| Rated control supply voltage U_s at AC 50HZ | V | | 48 - 48 |
| Rated control supply voltage U_s at AC 60HZ | V | | 0 - 0 |
| Rated control supply voltage U_s at DC | V | | 0 - 0 |
| Voltage type for actuating | | | AC |
| Rated operation current I_e at AC-1, 400 V | A | | 60 |
| Rated operation current I_e at AC-3, 400 V | A | | 40 |
| Rated operation power at AC-3, 400 V | kW | | 18.5 |
| Rated operation current I_e at AC-4, 400 V | A | | 18 |

| | | |
|---------------------------------------------------------|----|------------------|
| Rated operation power I _e at AC-4, 400 V | kW | 9 |
| Modular version | | No |
| Number of auxiliary contacts as normally open contact | | 0 |
| Number of auxiliary contacts as normally closed contact | | 0 |
| Connection type main current circuit | | Screw connection |
| Number of normally closed contacts as main contact | | 0 |
| Number of main contacts as normally open contact | | 3 |

Dimensions





Lateral clearance to earthed parts: 6 mm

DILM40...DILM72
DILMC40...DILMC65
DILMF40...DILMF65