

Insulated enclosure, HxWxD=240x160x125mm, +mounting rail



Part no. CI-K4-125-TS  
Catalog No. 206886  
  
EL-Nummer 4138004  
(Norway)

Delivery program

|                           |  |  |                                                                                                                                                        |
|---------------------------|--|--|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product range             |  |  | CI-K small enclosures                                                                                                                                  |
| Basic function            |  |  | Basic enclosures                                                                                                                                       |
| Product function          |  |  | CI-K empty enclosures                                                                                                                                  |
| Single unit/Complete unit |  |  | Single unit                                                                                                                                            |
| Degree of Protection      |  |  | Front IP65<br>IP65, with push-through cable entry                                                                                                      |
| Degree of Protection      |  |  | Front IP65<br>IP65, with push-through cable entry                                                                                                      |
| Material                  |  |  | Glass-fibre reinforced polycarbonate                                                                                                                   |
| Colour                    |  |  | Enclosure base RAL 9005, black<br>Operator only RAL 7035, light gray                                                                                   |
| Description               |  |  | Metric cable entry knockouts top, bottom and in the back plate<br>Control cable entry<br>Lamp indicator L-... can be mounted in base knock-out M20/M25 |
| Cable entry               |  |  | hard knockout version                                                                                                                                  |

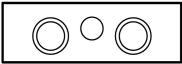
Dimensions

|        |  |    |     |
|--------|--|----|-----|
| Width  |  | mm | 160 |
| Height |  | mm | 240 |
| Depth  |  | mm | 125 |

Enclosure depth

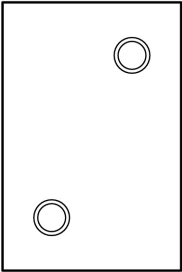
|                                                |  |    |                                                                                                                                                               |
|------------------------------------------------|--|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Legend for the graphic                         |  |    | Dimensions from top:<br>Mounting depth with mounting plate<br>Mounting depth for mounting rail 7.5 mm height<br>Mounting depth for mounting rail 15 mm height |
| Mounting depth for mounting rail 7.5 mm height |  | mm | 93                                                                                                                                                            |
| Features                                       |  |    | With mounting rail to IEC/EN 60715                                                                                                                            |

Notes  
0



Knockouts  
2 x M32/25  
1 x M20

V



Back plate:  
2 x M32/25

Technical data

General

|                      |  |    |                                                                                |
|----------------------|--|----|--------------------------------------------------------------------------------|
| Standards            |  |    | IEC/EN 60529<br>DIN EN 62208                                                   |
| Climatic proofing    |  |    | Damp heat, constant, to IEC 60068-2-78<br>Damp heat, cyclic, to IEC 60068-2-30 |
| Ambient temperature  |  | °C | -25 - +70<br>-25 - +40 (with push-through cable entry)                         |
| Degree of Protection |  |    | Front IP65                                                                     |

|                                                                                       |  |   |                                     |
|---------------------------------------------------------------------------------------|--|---|-------------------------------------|
| Power loss                                                                            |  |   | IP65, with push-through cable entry |
| Max. radiated heat dissipation with separate mounting, ambient air temperature +20 °C |  | W | 26                                  |

## Material characteristics

|                   |  |  |                                             |
|-------------------|--|--|---------------------------------------------|
| Material          |  |  |                                             |
| Base              |  |  | Glass-fibre reinforced polycarbonate        |
| Cover             |  |  | Glass-fibre reinforced polycarbonate        |
| Surface treatment |  |  | Resistant to corrosion                      |
| Colour            |  |  |                                             |
| Base              |  |  | RAL 9005, black (matt)                      |
| Housing body      |  |  | Enclosure cover RAL 7035, light grey (matt) |

## Material properties

|                                    |  |                         |                                                                                                                                                                                                                                                                                                                                                                                                                               |
|------------------------------------|--|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Electrical                         |  |                         |                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Track resistance                   |  |                         | CTI 175 (base, to IEC 60112)<br>CTI 175 (cover, to IEC 60112)                                                                                                                                                                                                                                                                                                                                                                 |
| Surface resistance to IEC 60093    |  | $\Omega \times 10^{13}$ | 1                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Dielectric strength to IEC 60243-1 |  | kV/mm                   | 30                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Thermal                            |  |                         |                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Temperature resistant              |  |                         | -40 °C - 120 °C (enclosure)<br>-40 °C - +80 °C (gasket)                                                                                                                                                                                                                                                                                                                                                                       |
| Mechanical                         |  |                         |                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Impact resistance                  |  |                         | IK06 according to EN 50102                                                                                                                                                                                                                                                                                                                                                                                                    |
| max. assembly weights              |  |                         |                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Mounting plate                     |  | kg                      | 0.9                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Mounting rail                      |  | kg                      | 0.9                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Chemical resistance                |  |                         |                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Chemical resistant                 |  |                         | Base, Cover<br>Resistant against: Acids < 10 %, mineral oil, alcohol, gasoline, greases, salt solutions<br>Partly resistant to: Acids > 10 %, alcohol<br>Not resistant to: alkalis, benzene<br>Push-through membrane (CI-K1/CI-K2) and sealing material<br>Resistant against: Acids < 10 %, alkalis, benzene, salt solutions<br>Partly resistant to: Acids > 10 %, greases, benzene<br>Not resistant to: Mineral oil, benzene |
| Atmospheric                        |  |                         |                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Saline spray                       |  |                         | IEC 60068-2-11                                                                                                                                                                                                                                                                                                                                                                                                                |
| UV resistance                      |  |                         | Beneath protective shield                                                                                                                                                                                                                                                                                                                                                                                                     |
| Water consumption to DIN EN ISO 62 |  | %                       | 0.29                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Flammability characteristics       |  |                         |                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Glow wire test                     |  |                         |                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Flammability characteristics       |  |                         | 960 °C/1mm thickness (base, cover; glow wire to VDE 0471 Part 2)<br>650 °C/1mm thick (push-through membrane) to VDE 0471 Part 2)                                                                                                                                                                                                                                                                                              |
| to UL 94                           |  |                         | VO/1.5 mm thickness                                                                                                                                                                                                                                                                                                                                                                                                           |
| to UL 94                           |  |                         | HB                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Halogen free                       |  |                         | Yes                                                                                                                                                                                                                                                                                                                                                                                                                           |

## Design verification as per IEC/EN 61439

|                                                                                       |                   |    |                                                   |
|---------------------------------------------------------------------------------------|-------------------|----|---------------------------------------------------|
| Technical data for design verification                                                |                   |    |                                                   |
| Rated operational current for specified heat dissipation                              | I <sub>n</sub>    | A  | 0                                                 |
| Heat dissipation per pole, current-dependent                                          | P <sub>vid</sub>  | W  | 0                                                 |
| Equipment heat dissipation, current-dependent                                         | P <sub>vid</sub>  | W  | 0                                                 |
| Static heat dissipation, non-current-dependent                                        | P <sub>vs</sub>   | W  | 0                                                 |
| Heat dissipation capacity                                                             | P <sub>diss</sub> | W  | 26                                                |
| Operating ambient temperature min.                                                    |                   | °C | -25                                               |
| Operating ambient temperature max.                                                    |                   | °C | 70                                                |
| Degree of Protection                                                                  |                   |    | Front IP65<br>IP65, with push-through cable entry |
| Max. radiated heat dissipation with separate mounting, ambient air temperature +20 °C |                   | W  | 26                                                |

|                                                                                                                        |  |  |                                                                                                                                  |
|------------------------------------------------------------------------------------------------------------------------|--|--|----------------------------------------------------------------------------------------------------------------------------------|
| Flammability characteristics                                                                                           |  |  | 960 °C/1mm thickness (base, cover; glow wire to VDE 0471 Part 2)<br>650 °C/1mm thick (push-through membrane) to VDE 0471 Part 2) |
| Track resistance                                                                                                       |  |  | CTI 175 (base, to IEC 60112)<br>CTI 175 (cover, to IEC 60112)                                                                    |
| Surface treatment                                                                                                      |  |  | Resistant to corrosion                                                                                                           |
| Impact resistance                                                                                                      |  |  | IK06 according to EN 50102                                                                                                       |
| Temperature resistant                                                                                                  |  |  | -40 °C - 120 °C (enclosure)<br>-40 °C - +80 °C (gasket)                                                                          |
| UV resistance                                                                                                          |  |  | Beneath protective shield                                                                                                        |
| 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                                                                       |  |  | Please enquire                                                                                                                   |
| 10.2.5 Lifting                                                                                                         |  |  | Not applicable.                                                                                                                  |
| 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                                                                                |  |  | Meets the product standard's requirements.                                                                                       |
| 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                                                               |  |  | Meets the product standard's requirements.                                                                                       |
| 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 8.0

|                                                                                                                                                                                                                         |  |    |                  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----|------------------|
| Low-voltage industrial components (EG000017) / Empty enclosure for switchgear (EC000712)                                                                                                                                |  |    |                  |
| Electric engineering, automation, process control engineering / Low-voltage switch technology / Component for low-voltage switching technology / Empty housing for switch devices (ec@ss10.0.1-27-37-13-01 [AKN343014]) |  |    |                  |
| Material housing                                                                                                                                                                                                        |  |    | Plastic          |
| Width                                                                                                                                                                                                                   |  | mm | 160              |
| Height                                                                                                                                                                                                                  |  | mm | 125              |
| Depth                                                                                                                                                                                                                   |  | mm | 240              |
| With transparent cover                                                                                                                                                                                                  |  |    | No               |
| Suitable for emergency stop                                                                                                                                                                                             |  |    | Yes              |
| Model                                                                                                                                                                                                                   |  |    | Surface mounting |
| Degree of protection (IP)                                                                                                                                                                                               |  |    | IP65             |
| Degree of protection (NEMA)                                                                                                                                                                                             |  |    | Other            |