



Insulated enclosure, HxWxD=120x80x95mm, +mounting rail

**Part no.** CI-K1-95-TS  
**Article no.** 206881

## 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>Push-through cable entry diaphragm<br>Lamp indicator L-... can be mounted in base knock-out M20/M25 |
| Cable entry               |  | Push-through cable entry diaphragm                                                                                                                                    |

## Dimensions

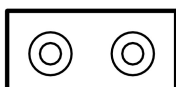
|            |    |     |
|------------|----|-----|
| Width      | mm | 80  |
| Height     | mm | 120 |
| Depth      | mm | 95  |
| Dimensions | mm |     |

## 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 |
| Enclosure depth                                | mm |                                                                                                                                                               |
| Mounting depth for mounting rail 7.5 mm height | mm | 72                                                                                                                                                            |
| Features                                       |    | With mounting rail to IEC/EN 60715                                                                                                                            |

## Notes

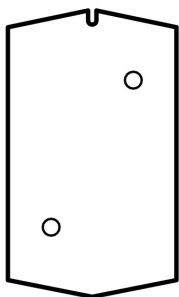
L



Knockouts

2 X M20 or push-through membrane up to max.  12 mm

S



Back plate:

2 x push-through membrane up to max.  8mm

## 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<br>IP65, with push-through cable entry                              |
| Power loss                                                                            |  |    |                                                                                |
| Max. radiated heat dissipation with separate mounting, ambient air temperature +20 °C |  | W  | 10                                                                             |

### 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                  |  |                         | IK04 according to EN 50102                                                                                                                                                                                                                                                                                                                                                                                                    |
| max. assembly weights              |  |                         |                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Mounting plate                     |  | kg                      | 0.5                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Mounting rail                      |  | kg                      | 0.5                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 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 and seal material) 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

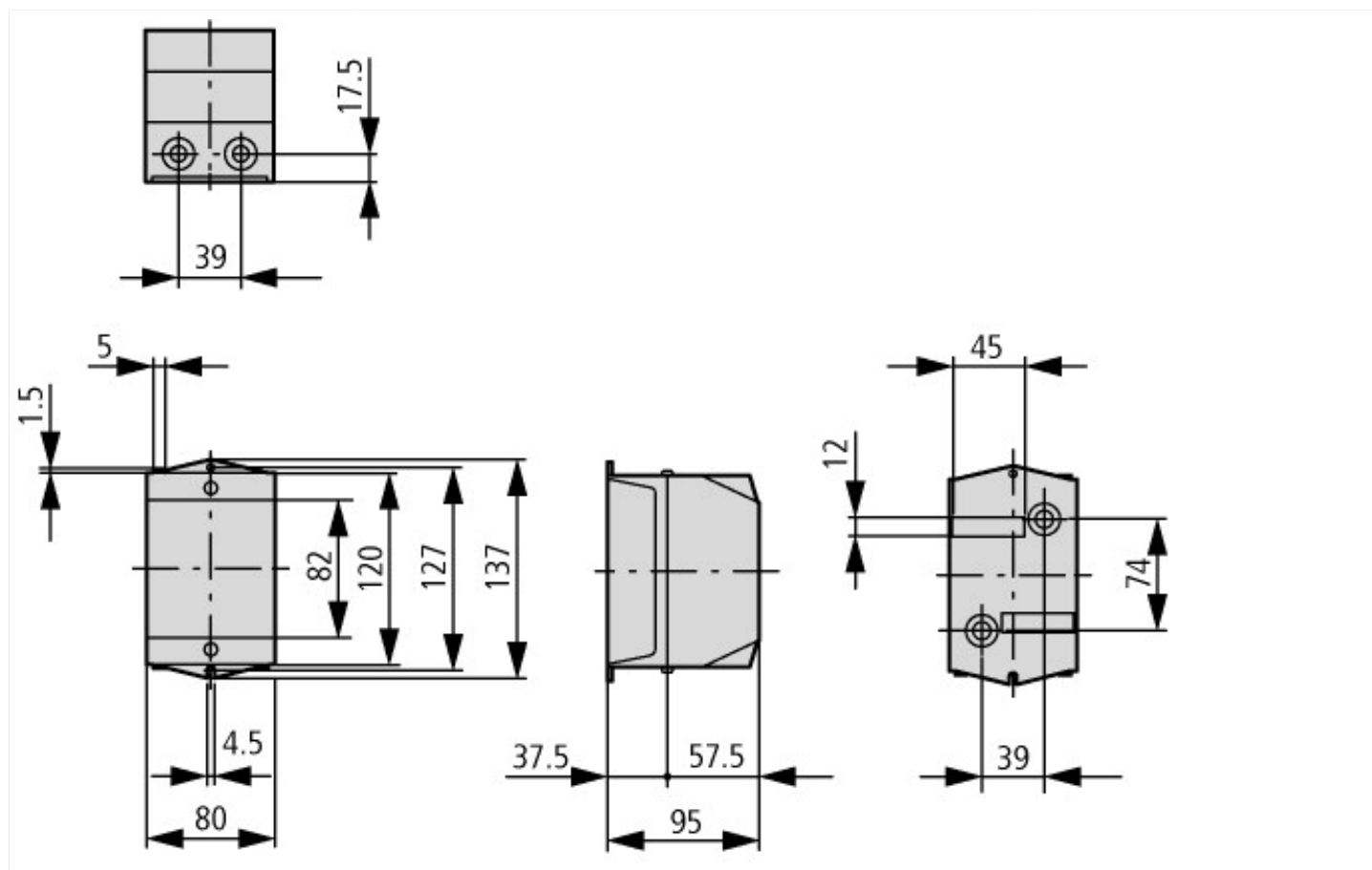
|                                                                                                                        |  |    |                                                                                                                                                    |
|------------------------------------------------------------------------------------------------------------------------|--|----|----------------------------------------------------------------------------------------------------------------------------------------------------|
| Technical data for design verification                                                                                 |  |    |                                                                                                                                                    |
| 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  | 10                                                                                                                                                 |
| Flammability characteristics                                                                                           |  |    | 960 °C/1mm thickness (base, cover; glow wire to VDE 0471 Part 2)<br>650 °C/1mm thick (push-through membrane and seal material) 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                                                                                                      |  |    | IK04 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 6.0

|                                                                                                                                                                                                                       |  |    |         |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----|---------|
| 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 (ecI@ss8.1-27-37-13-01 [AKN343011]) |  |    |         |
| Material housing                                                                                                                                                                                                      |  |    | Plastic |
| Width                                                                                                                                                                                                                 |  | mm | 80      |

|                             |    |                  |
|-----------------------------|----|------------------|
| Height                      | mm | 120              |
| Depth                       | mm | 95               |
| With transparent cover      |    | No               |
| Suitable for emergency stop |    | Yes              |
| Model                       |    | Surface mounting |
| Degree of protection (IP)   |    | IP65             |

## Dimensions



## Additional product information (links)

**IL01502081Z (AWA3210-1735) Insulated small enclosures**

IL01502081Z (AWA3210-1735) Insulated small enclosures

[ftp://ftp.moeller.net/DOCUMENTATION/AWA\\_INSTRUCTIONS/IL01502081Z2015\\_11.pdf](ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL01502081Z2015_11.pdf)