Powering Business Worldwide

CI-K5-160-M - Insulated enclosure, HxWxD=280x200x160mm, +mounting plate

206900 CI-K5-160-M

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Insulated enclosure, HxWxD=280x200x160mm, +mounting plate

EL-Nummer (Norway) 4138013

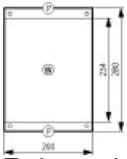
Insulated enclosure, with DIN-rail, (weight of fitted components max. 1.7 kg), Product range: CI-K small enclosures, Basic enclosures, Single unit, Degree of Protection: Front IP65, IP65, with push-through cable entry, Material: Glass-fibre reinforced polycarbonate, Colour: Enclosure base RAL 9005, black, Operator only RAL 7035, light gray, Description: Metric cable entry knockouts top, bottom and in the back plate, Control cable entry, Lamp indicator L-… can be mounted in base knock-out M20/M25, Cable entry: hard knockout version, Dimensions Width: 200 mm, Height: 280 mm, Depth: 160 mm, Mounting depth with mounting plate: 133 mm, Standards: IEC/EN 60529, DIN EN 62208

- Delivery program
- Technical data
- Design verification as per IEC/EN 61439
- Technical data ETIM 7.0
- Dimensions

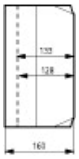
Delivery program

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
IP65, with push-through cable entry
Degree of Protection
Front IP65
IP65, with push-through cable entry
Material
Glass-fibre reinforced polycarbonate
Colour
Enclosure base RAL 9005, black
Operator only RAL 7035, light gray
Description
Metric cable entry knockouts top, bottom and in the back plate
Control cable entry
Lamp indicator L-… can be mounted in base knock-out M20/M25

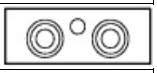
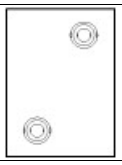
Cable entry
hard knockout version
Dimensions
Width
200 mm
Height
280 mm
Depth
160 mm
Dimensions



Enclosure depth
Legend for the graphic
Dimensions from top:
Mounting depth with mounting plate
Mounting depth for mounting rail 7.5 mm height
Mounting depth for mounting rail 15 mm height
Enclosure depth



Mounting depth with mounting plate
133 mm
Features
with DIN-rail
(weight of fitted components max. 1.7 kg)
Notes

P

Knockouts
2 x M50/40/25
1 x M20
W

Back plate:
2 x M50/40/25

Technical data

General
Standards
IEC/EN 60529
DIN EN 62208
Climatic proofing
Damp heat, constant, to IEC 60068-2-78
Damp heat, cyclic, to IEC 60068-2-30
Ambient temperature
-25 - +70
-25 - +40 (with push-through cable entry) °C
Degree of Protection
Front IP65
IP65, with push-through cable entry
Power lossMax. radiated heat dissipation with separate mounting, ambient air temperature +20 °C
41 W
Material characteristics

MaterialBase
Glass-fibre reinforced polycarbonate
MaterialCover
Glass-fibre reinforced polycarbonate
Surface treatment
Resistant to corrosion
ColourBase
RAL 9005, black (matt)
ColourHousing body
Enclosure cover RAL 7035, light grey (matt)
Material properties
ElectricalTrack resistance
CTI 175 (base, to IEC 60112)
CTI 175 (cover, to IEC 60112)
ElectricalSurface resistance to IEC 60093
1 Ω x 10^{13}
ElectricalDielectric strength to IEC 60243-1
30 kV/mm
ThermalTemperature resistant
-40 °C - 120 °C (enclosure)
-40 °C - +80 °C (gasket)
MechanicalImpact resistance
IK06 according to EN 50102
Mechanicalmax. assembly weightsMounting plate
1 kg
Mechanicalmax. assembly weightsMounting rail
1 kg
Chemical resistanceChemical resistant
Base, Cover
Resistant against: Acids < 10 %, mineral oil, alcohol, gasoline, greases, salt solutions
Partly resistant to: Acids > 10 %, alcohol
Not resistant to: alkalis, benzene
Push-through membrane (CI-K1/CI-K2) and sealing material
Resistant against: Acids < 10 %, alkalis, benzene, salt solutions
Partly resistant to: Acids > 10 %, greases, benzene
Not resistant to: Mineral oil, benzene
AtmosphericSaline spray
IEC 60068-2-11
AtmosphericUV resistance
Beneath protective shield
AtmosphericWater consumption to DIN EN ISO 62
0.29 %
Flammability characteristicsGlow wire testFlammability characteristics
960 °C/1mm thickness (base, cover; glow wire to VDE 0471 Part 2)
650 °C/1mm thick (push-through membrane) to VDE 0471 Part 2)
Flammability characteristicsGlow wire testto UL 94
V0/1.5 mm thickness
Flammability characteristicsGlow wire testto UL 94
HB
Flammability characteristicsHalogen free
Yes

Design verification as per IEC/EN 61439

Technical data for design verification
Rated operational current for specified heat dissipation [I_n]
0 A
Heat dissipation per pole, current-dependent [P_{vid}]
0 W
Equipment heat dissipation, current-dependent [P_{vid}]
0 W
Static heat dissipation, non-current-dependent [P_{vs}]
0 W
Heat dissipation capacity [P_{diss}]
41 W
Operating ambient temperature min.
-25 °C
Operating ambient temperature max.
+70 °C

Degree of Protection
Front IP65
IP65, with push-through cable entry
Max. radiated heat dissipation with separate mounting, ambient air temperature +20 °C
41 W
Flammability characteristics
960 °C/1mm thickness (base, cover; glow wire to VDE 0471 Part 2)
650 °C/1mm thick (push-through membrane) to VDE 0471 Part 2)
Track resistance
CTI 175 (base, to IEC 60112)
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)
-40 °C - +80 °C (gasket)
UV resistance
Beneath protective shield
IEC/EN 61439 design verification
10.2 Strength of materials and parts10.2.2 Corrosion resistance
Meets the product standard's requirements.
10.2 Strength of materials and parts10.2.3.1 Verification of thermal stability of enclosures
Meets the product standard's requirements.
10.2 Strength of materials and parts10.2.3.2 Verification of resistance of insulating materials to normal heat
Meets the product standard's requirements.
10.2 Strength of materials and parts10.2.3.3 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric effects
Meets the product standard's requirements.
10.2 Strength of materials and parts10.2.4 Resistance to ultra-violet (UV) radiation
Please enquire
10.2 Strength of materials and parts10.2.5 Lifting
Not applicable.
10.2 Strength of materials and parts10.2.6 Mechanical impact
Does not apply, since the entire switchgear needs to be evaluated.
10.2 Strength of materials and parts10.2.7 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 properties10.9.2 Power-frequency electric strength
Is the panel builder's responsibility.
10.9 Insulation properties10.9.3 Impulse withstand voltage
Is the panel builder's responsibility.
10.9 Insulation properties10.9.4 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 7.0

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 (ecl@ss10.0.1-27-37-13-01 [AKN343014])
Material housing
Plastic
Width
200 mm
Height
280 mm
Depth
160 mm
With transparent cover
No
Suitable for emergency stop
Yes
Model
Surface mounting
Degree of protection (IP)
IP65
Degree of protection (NEMA)
Other

Dimensions

CAD data

- Product-specific CAD data
  (Web)
- 3D Preview
  (Web)

DWG files

- DA-CD-ci_k5_m
  File
  (Web)

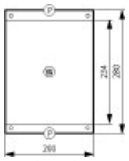
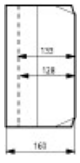
edz files

- DA-CE-ETN.CI-K5-160-M
  File
  (Web)

Step files

- DA-CS-ci_k_m_10
  File
  (Web)

Dimensions single product

- 321X010
  Line drawing
  Basic enclosure
- 
  461N013
  Line drawing
  Basic enclosures
- 

461N015
Line drawing
Mounting depth

Product photo

- 

1150PIC-1420
Photo

Instruction Leaflet

- Insulated small enclosures (IL01502081Z)
  Asset
  (PDF, multilingual)

Declaration of Conformity

UK

- CI-K General Purpose Enclosures (DA-DC-00004028)
  Asset
  (PDF)

Download-Center

- Download-Center (this item)
  Eaton EMEA Download-Center - download data for this item
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