206885
CI-K3-160-TS

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

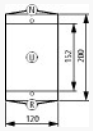
Dimensions

Width
120 mm

Height
200 mm

Depth
160 mm

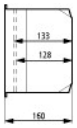
Dimensions



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

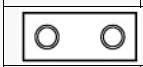
Enclosure depth



Mounting depth for mounting rail 7.5 mm height
128 mm

Features
With mounting rail to IEC/EN 60715

Notes

N	**R**
	
Knockouts	Knockouts
2 x M25/20	2 x M25/20
	1 x M20
U	
Back plate:	
2 x M25/20	

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 loss
Max. radiated heat dissipation with separate mounting, ambient air temperature +20 °C
25.5 W

Material characteristics

Material
Base
Glass-fibre reinforced polycarbonate

Material
Cover
Glass-fibre reinforced polycarbonate

Surface treatment
Resistant to corrosion

Colour
Base
RAL 9005, black (matt)

Colour
Housing body
Enclosure cover RAL 7035, light grey (matt)

Material properties

Electrical
Track resistance
CTI 175 (base, to IEC 60112)
CTI 175 (cover, to IEC 60112)

Electrical
Surface resistance to IEC 60093
$1\ \Omega \times 10^{13}$

Electrical
Dielectric strength to IEC 60243-1
30 kV/mm

Thermal
Temperature resistant
-40 °C - 120 °C (enclosure)
-40 °C - +80 °C (gasket)

Mechanical
Impact resistance
IK06 according to EN 50102

Mechanical
max. assembly weights
Mounting plate
0.85 kg

Mechanical
max. assembly weights
Mounting rail
0.85 kg

Chemical resistance
Chemical 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

Atmospheric
Saline spray
IEC 60068-2-11

Atmospheric
UV resistance
Beneath protective shield

Atmospheric
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)
650 °C/1mm thick (push-through membrane) to VDE 0471 Part 2)

Flammability characteristics
Glow wire test
to UL 94
V0/1.5 mm thickness

Flammability characteristics
Glow wire test
to UL 94
HB

Flammability characteristics
Halogen 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}]
25.5 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
25.5 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 parts
10.2.2 Corrosion resistance
Meets the product standard's requirements.

10.2 Strength of materials and parts
10.2.3.1 Verification of thermal stability of enclosures
Meets the product standard's requirements.

10.2 Strength of materials and parts
10.2.3.2 Verification of resistance of insulating materials to normal heat
Meets the product standard's requirements.

10.2 Strength of materials and parts
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 Strength of materials and parts
10.2.4 Resistance to ultra-violet (UV) radiation
Please enquire

10.2 Strength of materials and parts
10.2.5 Lifting
Not applicable.

10.2 Strength of materials and parts
10.2.6 Mechanical impact
Does not apply, since the entire switchgear needs to be evaluated.

10.2 Strength of materials and parts
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 Insulation properties
10.9.3 Impulse withstand voltage
Is the panel builder's responsibility.

10.9 Insulation properties
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 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
120 mm

Height
200 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