



**206892**  
**CI-K5-160-TS**

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## 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

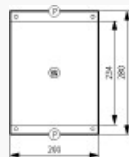
Height

280 mm

Depth

160 mm

Dimensions



## Enclosure depth

Legend for the graphic

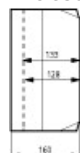
Dimensions from top:

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 for mounting rail 7.5 mm height  
128 mm

#### Features

With mounting rail to IEC/EN 60715

(weight of fitted components max. 0.65 kg)

#### Notes

##### P

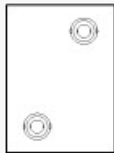


Knockouts

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 loss  
Max. radiated heat dissipation with separate  
mounting, ambient air temperature +20 °C  
41 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  
1 kg

Mechanical  
max. assembly weights  
Mounting rail  
1 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

VO/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 [ $I_r$ ]  
0 A

Heat dissipation per pole, current-dependent [ $P_{id}$ ]  
0 W

Equipment heat dissipation, current-dependent  
[ $P_{id}$ ]  
0 W

Static heat dissipation, non-current-dependent [ $P_{is}$ ]  
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 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  
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



