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CI-K2H-145-AD - Insulated enclosure, HxWxD=160x100x145mm, +component adapter DILE+ZE



229308 CI-K2H-145-AD

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## 229308 CI-K2H-145-AD

Insulated enclosure, HxWxD=160x100x145mm, +component adapter DILE+ZE

EL-Nummer (Norway)

4138019

Insulated enclosure, with adapter plate for contactors DILE with motor-protective relay ZE, 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: 100 mm, Height: 160 mm, Depth: 145 mm, Mounting depth with mounting plate: 124 mm, Standards: IEC/EN 60529, DIN EN 62208





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## Delivery program

Product range  
 C-K small enclosures  
 Basic function  
 Basic enclosures  
 Product function  
 C-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  
 100 mm  
 Height  
 160 mm  
 Depth  
 145 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

124 mm

Features

with adapter plate for contactors DILE with motor-protective relay ZE

### Notes

M	q
□	□
Knockouts	Knockouts
2 X M25 or push-through membrane up to max. □ 16 mm	2 x M25 or push-through membrane up to a max. diameter of 16 mm and 1 push-through membrane up to a max. diameter of 8 mm
T	
□	
Back plate:	
2 x push-through membrane up to max. □ 11mm	
(not for CI-K2H)	

## 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

18,5 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

$1 \Omega \times 10^{13}$

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

0.7 kg

Mechanicalmax. assembly weightsMounting rail

0.7 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 (Cl-K1/Cl-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 and seal material) 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 [ $I_r$ ]  
 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 [ $P_{diss}$ ]  
 18.5 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  
 18.5 W  
 Flammability characteristics  
 960 °C/1mm thickness (base, cover; glow wire to VDE 0471 Part 2)  
 650 °C/1mm thick (push-through membrane and seal material) 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  
Meets the product standard's requirements.

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  
Is the panel builder's responsibility.

10.6 Incorporation of switching devices and components  
Is the panel builder's responsibility.

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

100 mm

Height

160 mm

Depth

145 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-cj\\_k\\_ad](#)  
File  
(Web)

## edz files

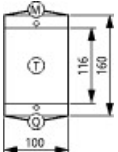
- [DA-CE-ETN-C-K2H-145-AD](#)  
File  
(Web)

## Step files

- [DA-CS-cj\\_k\\_ad\\_2](#)  
File  
(Web)

## Dimensions single product

- [321X002](#)  
Line drawing  
Basic enclosure



- [461N004](#)  
Line drawing  
Mounting depth

- [461N007](#)  
Line drawing  
Mounting depth

## Product photo

- [1150PIC-1414](#)  
Photo

- [y7-229308\\_bk](#)  
Photo



- [y7-229308\\_bt](#)  
Photo



- [y7-229308\\_c](#)  
Photo



- [y7-229308\\_do](#)  
Photo



[y7-229308\\_do1](#)

Photo



[y7-229308\\_do2](#)

Photo



[y7-229308\\_l](#)

Photo



[y7-229308\\_ldo](#)

Photo

- [y7-229308\\_pkg](#)

Photo

- [y7-229308\\_pkgo](#)

Photo



[y7-229308\\_r](#)

Photo

- [y7-229308\\_rdo](#)

Photo



[y7-229308\\_tp](#)

Photo

## Instruction Leaflet

- [Insulated small enclosures \(IL01502081Z\)](#)

Asset

(PDF, multilingual)

## Declaration of Conformity

### UK

- [C-K General Purpose Enclosures \(DA-DC-00004028\)](#)

Asset

(PDF)

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