DATASHEET - CI-K2H-80-K



Insulated enclosure, HxWxD=160x100x80mm, +hinged cover

Powering Business Worldwide*

Part no. CI-K2H-80-K Catalog No. 229310

Delivery program

Delivery program		
Product range		CI-K small enclosures
Basic function		Basic enclosures
Product function		Empty enclosure CI-K2
Single unit/Complete unit		Single unit
Degree of Protection		IP65
Degree of Protection		IP54 IP65
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 Hard metric cable entry knockouts Control cable entry Lamp indicator L can be mounted in base knock-out M20/M25 Transparent hinged cover for devices requiring 2 to 4 space units
Cable entry		hard knockout version
Dimensions	m	
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	m	70 80 115
Mounting depth for mounting rail 7.5 mm height	m	mm 70
Features		with hinged cover

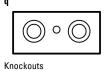
Notes

M



Knockouts

11/08/2019



Eaton 229310 ED2019 V62.0 EN

Notes Membrane grommets, cable glands Chapter 14, Accessories

Technical data

Standards Standa	General		
Demp Nest, Portico 16 C00084-2-30 Page of Prescrion Prescrio	Standards		
Pase	Climatic proofing		
Material Characteristics Material Base Cover Cover Cover Cover Cotour Base Cotour Base Cover Cotour Base Cotour Cotour	Ambient temperature	°C	
Material Base Coover Surface treatment Colour Base Base Base Base Base Base Base Bas	Degree of Protection		IP65
Base Cover Cover Cover Cotor Surface treatment Cotor Base Base Base Base Base Base Base Base			
Cover Clases-Riture reinforced polycarbonate Suiface treatment Resistant to corrosion Colour RAL 8005, black (matt) Base RAL 8005, black (matt) Housing body Enclosure cover RAL 7058, light grey (matt) Material properties Enterical 11 175 (base, to 1EC 60112) Crit 175 (course, to 1EC 60012) CTI 175 (course, to 1EC 60112) Surface resistance to 1EC 60033 0 x 10 ¹³ Diluterior strength to 1EC 60024-1 Mymm 20 Thermal 49°C - 120°C (enclosure) Impact resistance 100°C 100°C (gasket) Mechanical 100°C 100°C (gasket) Mundring plate 100°C 20°C (gasket) Mounting plate (gasket) 100°C 20°C (gasket) Mounting plate (gasket) 100°C 20°C (gasket) Mounting plate (gasket) 100°C 20°C (gasket) <t< td=""><td>Material</td><td></td><td></td></t<>	Material		
Surface restment Colour Gase Base Resistant to corrosion Recirca Base Relation to corrosion Recirca Resistant to corrosion Recirca Relation Relati	Base		Glass-fibre reinforced polycarbonate
Colour Base AL 8005, black (matt) Housing body Enclosure cover RAL 7285, light grey (matt) Material properties Service CT1175 [lass, to IEC 60112] Track resistance CT1175 [lass, to IEC 60112] CT1175 [lass, to IEC 60112] Surface resistance to IEC 60033 QX 10 ¹⁰ CT1175 [loss, to IEC 60112] Dielectric strength to IEC 60243-1 W/m 9 Temperature resistant V/m 0° - 120° C (enclosure) Mechanical V/m 0° - 120° C (enclosure) Mechanical lumpact resistance V/m 0° - 120° C (enclosure) Impact resistance V/m 0° - 120° C (enclosure) Mounting plate S 0° - 120° C (enclosure) Mounting plate S 8 Chemical resistant S 8 Chemical resistant S 8 Saline sporty S 8 8 <	Cover		Glass-fibre reinforced polycarbonate
Rale 9005, black (matt) Rale 9005, black	Surface treatment		Resistant to corrosion
Housing body Material properties Electrical Track resistance Oblectric strength to IEC 60083 Oblectric strength to IEC 60084 Thermal Temperature resistant Mechanical Impact resistance Impact	Colour		
Blactrial properties Electrical	Base		RAL 9005, black (matt)
Electrical Track resistance Surface resistance IEC 60093 Surface resistance to IEC 60093 Delectric strength to IEC 60243-1 Tomana Tompartur resistant Tompartur resistant Mochanical Impact resistance Impact resistance Mounting plate Mounting plate Mounting rail Chemical resistant Mounting rail Chemical resistant About resistant resistant shalls, be rozene Pash-through membrane (CLK/CH-22) and sealing material Pash-through membrane (CLK/CH-22) and sealing mater	Housing body		Enclosure cover RAL 7035, light grey (matt)
Track resistance to IEC 60033 Dielectric strength to IEC 600243-1 Thormal Tomperature resistant Impact resistance Impact r	Material properties		
Surface resistance to IEC 80093 0 x 10	Electrical		
Delectric strength to IEC 60243-1 Thermal	Track resistance		
Themal and the properties of t	Surface resistance to IEC 60093	$\Omega \times 10^{13}$	1
Temperature resistant Mechanical Impact resistance Impact resistance Impact resistance Impact resistance Mounting plate Mounting plate Mounting rail Chemical resistant Chemical resistant Chemical resistant Saline spray UV resistance Muty resistant to: Acids > 10 %, greases, benzene Not resistant to: Mineral oil, benzene Not resistant to: Acids > 10 %, greases, benzene Not resistant to: Mineral oil, benzene Not resistant to: Mineral oil, benzene Not resistant to: Mineral oil, benzene Push-through membrane (ICH, NICH-IX) and sealing material Not resistant to: Acids > 10 %, greases, benzene Not resistant to: Mineral oil, benzene, salt solutions Partly resistant to: Acids > 10 %, greases, benzene Not resistant to: Mineral oil, benzene Not res	Dielectric strength to IEC 60243-1	kV/mm	30
Mechanical Mechanical Impact resistance Imax assembly weights Mounting plate Mounting rail Chemical resistant Chemical resistant Chemical resistant Saline spray Muter consumption to DIN EN ISO 62 Moter consumption to DIN EN ISO 62 Glow wire test Flammability characteristics Glow wire test To UL 94 To UL 94 Mechanical Mounting plate Mounting plate Mag Ag Ag Ag Ag Ag Ag Ag Ag Ag	Thermal		
Impact resistance Koop according to EN 50102 max. assembly weights Koop Mounting plate Koop Mounting rail Koop Chemical resistance Koop Chemical resistant Chemical resist	Temperature resistant		
max. assembly weights Mounting plate Mounting rail Chemical resistance Chemical resistant Chemical re	Mechanical		
Mounting plate Mounting rail Chemical resistance Chemical resistant Chemical resist	Impact resistance		IK06 according to EN 50102
Mounting rail Chemical resistance Chemical resistant Check Solo Chyline Chick Chick Colon, Meneral oil, Jacohol, Qasoline, greases, salt solutions volutions validate particular chemical solutions validate particular chemical oil, benzene Chemical resistant Chemical resistant Check Solo Chyline Chick Chyline Chemical resistant Chids < 10 %, alcolol, Amical solutions particular assistant co. Aicids > 10 %, alcalis, benzene, salt solutions particular assistant co. Aicids > 10 %, alcalis, benzene, salt solutions particular assistant co. Aicids > 10 %, alcalis, benzene assis	max. assembly weights		
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Chemical resistant Base, Cover Resistant against: Acids < 10 %, mineral oil, alcohol, gasoline, greases, salt solutions Partly resistant to: Acids > 10 %, alcohol Not resistant to: Acids < 10 %, 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 EC 60068-2-11 UV resistance Water consumption to DIN EN ISO 62 Beneath protective shield Water consumption to DIN EN ISO 62 Glow wire test Flammability characteristics Glow wire test Flammability characteristics Glow wire test Flammability characteristics Hammability characteristics Glow wire test Flammability characteristics Hammability characteristics	Mounting rail	kg	0.7
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, salt solutions Partly 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/Imm thickness (base, cover; glow wire to VDE 0471 Part 2) 650 °C/Imm thick (push-through membrane and seal material) to VDE 0471 Part 2) to UL 94 to UL 94 HB	Chemical resistance		
Saline spray UV resistance Water consumption to DIN EN ISO 62 Flammability characteristics Glow wire test Flammability characteristics Occ/Imm thickness (base, cover; glow wire to VDE 0471 Part 2) 650 °C/Imm thick (push-through membrane and seal material) to VDE 0471 Part 2) VO/1.5 mm thickness to UL 94 to UL 94 HB	Chemical resistant		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
UV resistance Water consumption to DIN EN ISO 62 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) to UL 94 to UL 94 HB	Atmospheric		
Water consumption to DIN EN ISO 62 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) to UL 94 to UL 94 HB	Saline spray		IEC 60068-2-11
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) to UL 94 VO/1.5 mm thickness to UL 94 HB	UV resistance		Beneath protective shield
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) to UL 94 VO/1.5 mm thickness to UL 94 HB	Water consumption to DIN EN ISO 62	%	0.29
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) to UL 94 VO/1.5 mm thickness to UL 94 HB	Flammability characteristics		
to UL 94 to UL 94 to UL 94 HB	Glow wire test		
to UL 94	Flammability characteristics		
	to UL 94		VO/1.5 mm thickness
Halogen free Yes	to UL 94		НВ
	Halogen free		Yes

Design verification as per IEC/EN 61439

Technical data for design verification			
Rated operational current for specified heat dissipation	In	Α	0
Heat dissipation per pole, current-dependent	P _{vid}	W	0
Equipment heat dissipation, current-dependent	P _{vid}	W	0

Static heat dissipation, non-current-dependent	P _{vs}	W	0
Heat dissipation capacity	P _{diss}	W	10
Operating ambient temperature min.	· uiss	°C	-25
Operating ambient temperature max.		°C	70
Degree of Protection		U	IP65
•			
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.
10.2.3.1 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			Meets the product standard's requirements.
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.
10.9.3 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.

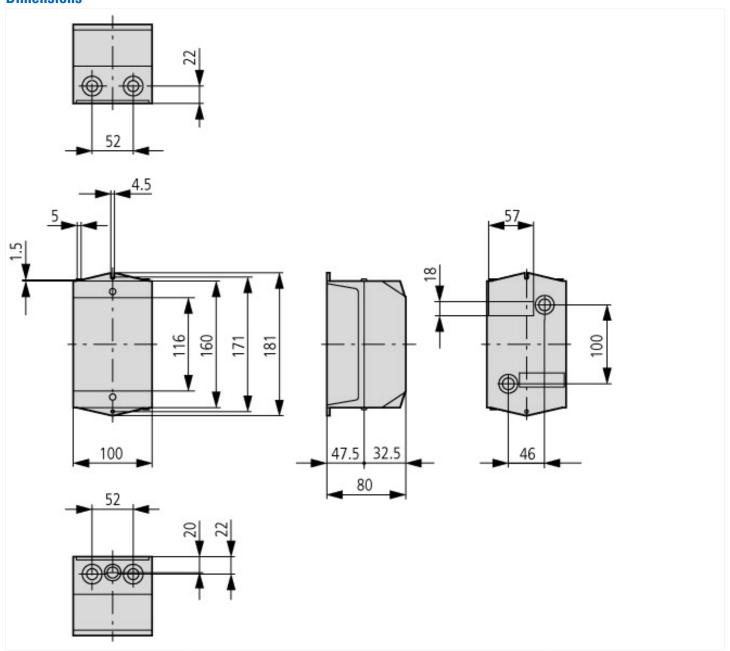
Technical data ETIM 7.0

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])

(ECI@SS10.0.1-27-37-13-01 [AKN343014])		
Material housing		Plastic
Width	mm	100
Height	mm	160
Depth	mm	80
With transparent cover		No
Suitable for emergency stop		Yes
Model		Surface mounting
Degree of protection (IP)		IP65
Degree of protection (NEMA)		Other

Dimensions



Assets (links)

Declaration of CE Conformity

00002809

Instruction Leaflets

IL01502081Z2018_05

Additional product information (links)

IL01502081Z (AWA3210-1735) Insulated small enclosures

IL01502081Z (AWA3210-1735) Insulated small enclosures

 $ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL01502081Z2018_05.pdf$