



Insulated enclosure, HxWxD=160x100x80mm, +hinged cover

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

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	mm	
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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	mm	
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Mounting depth for mounting rail 7.5 mm height	mm	70
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Features		with hinged cover
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Notes		
M		
Knockouts		
2 X M25 or push-through membrane up to max. Ø 16 mm		
q		
Knockouts		
2 x M25 or push-through membrane up to max. Ø 16 mm and 1 push-through membrane up to max. Ø 8 mm		

Notes Membrane grommets, cable glands Chapter 14, Accessories

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		°C	-25 - +70 -25 - +40 (with push-through cable entry)
Degree of Protection			IP65

Material characteristics

Material			
Base			Glass-fibre reinforced polycarbonate
Cover			Glass-fibre reinforced polycarbonate
Surface treatment			Resistant to corrosion
Colour			
Base			RAL 9005, black (matt)
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)
Surface resistance to IEC 60093		$\Omega \times 10^{13}$	1
Dielectric strength to IEC 60243-1		kV/mm	30
Thermal			
Temperature resistant			-40 °C - 120 °C (enclosure) -40 °C - +80 °C (gasket)
Mechanical			
Impact resistance			IK06 according to EN 50102
max. assembly weights			
Mounting plate		kg	0.7
Mounting rail		kg	0.7
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
UV resistance			Beneath protective shield
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)
to UL 94			VO/1.5 mm thickness
to UL 94			HB
Halogen free			Yes

Design verification as per IEC/EN 61439

Technical data for design verification				
Rated operational current for specified heat dissipation	I_n	A		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.		°C		-25

Operating ambient temperature max.	°C	70
Degree of Protection		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 8.0

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 (ec1@ss10.0.1-27-37-13-01 [AKN343014])		
Material housing		Plastic
Width	mm	100
Height	mm	100
Depth	mm	181
With transparent cover		No
Suitable for emergency stop		Yes
Model		Surface mounting
Degree of protection (IP)		IP65
Degree of protection (NEMA)		Other

Dimensions

