

Insulated enclosure, HxWxD=160x100x145mm, +mounting rail



Powering Business Worldwide™

Part no.	CI-K2-145-TS
Catalog No.	206883
EL-Nummer (Norway)	4138002

Delivery program

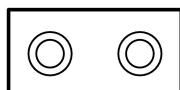
Product range	CI-K small enclosures
Basic function	Basic enclosures
Product function	CI-K empty enclosures
Single unit/Complete unit	Single unit
Degree of Protection	Front IP65 IP65, with push-through cable entry
Degree of Protection	Front IP65 IP65, with push-through cable entry
Material	Glass-fibre 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	Push-through cable entry diaphragm

Dimensions

Width	mm	100
Height	mm	160
Depth	mm	145
Mounting depth for mounting rail 7.5 mm height	mm	118
Features		With mounting rail to IEC/EN 60715

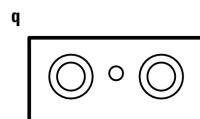
Notes

M



Knockouts

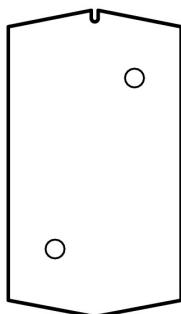
2 X M25 or push-through membrane up to max. Ø 16 mm



Knockouts

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

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Back plate:

2 x push-through membrane up to max. Ø 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

Ambient temperature	°C	Damp heat, cyclic, to IEC 60068-2-30 -25 - +70 -25 - +40 (with push-through cable entry)
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	W	18.5

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	Ω × 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			
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			
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	18.5
Operating ambient temperature min.		°C	-25
Operating ambient temperature max.		°C	70
Degree of Protection			Front IP65 IP65, with push-through cable entry

Max. radiated heat dissipation with separate mounting, ambient air temperature +20 °C	W	18.5
Surface treatment		Resistant to corrosion
Temperature resistant		-40 °C - 120 °C (enclosure) -40 °C - +80 °C (gasket)
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		Does not apply, since the entire switchgear needs to be evaluated.
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.
10.9.3 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 (ecl@ss10.0.1-27-37-13-01 [AKN343014])

Material housing		Plastic
Width	mm	100
Height	mm	145
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