

Insulated enclosure, HxWxD=240x160x160mm, +mounting rail

Powering Business Worldwide*

Part no. CI-K4-160-TS Article no. 206890

Delivery program

Product range Product function Product function Single unif Complete unit Degree of Protection Person of Person of Protection Person of Protection Person of Person of Pe	Delivery program		
Product function Single unifComplete unit Degree of Protection Description Calour Description	Product range		CI-K small enclosures
Single unit Complete unit Degree of Protection Degree of Protection Degree of Protection Material Colour Colour Description Colour Co	Basic function		Basic enclosures
Degree of Protection Degree of Protection Material Colour Description Descript	Product function		CI-K empty enclosures
Degree of Protection Material Colour Colour	Single unit/Complete unit		Single unit
PER, with proatt-through cable entry PER, plant years only RAL 7005, plant k proposed polycarbonate PER, plant years only RAL 7005, plant yea	Degree of Protection		
Colour Colour posser AL 9005, black Operator only RAL 7105, light gray Coloretary Operator only RAL 7105, light gray Description Colored cable entry work outs to a, bettom and in the back plate Control cable entry work outs to a, bettom and in the back plate Control cable entry work outs to a be mounted in base knock-out M20/M25 Dimensions Image: Color of cable entry work outs to a be mounted in base knock-out M20/M25 World mm 100 Width mm 100 Depth mm 180 Dimensions mm 180 Enclosure depth mm 180 Legend for the graphic mm 180 Dimensions from top: Mounting depth for mounting plate Mounting depth for mounting rail 7.5 mm height Mounting depth for mounting rail 7.5 mm height Mounting depth for mounting rail 7.5 mm height in mounting rail 7.5 mm height mounting rail	Degree of Protection		
Description Cable entry Dimensions Width Haight Depth Enclosure depth Legenf for the graphic Enclosure depth Mounting depth for mounting rail 7.5 mm height	Material		Glass-fibre reinforced polycarbonate
Cable entry Dimensions Width Height Double for the graphic Enclosure depth Enclosure depth Enclosure depth Mounting depth for mounting rail 7.5 mm height	Colour		
Dimensions Wridth Height Depth Dimensions Enclosure depth Legend for the graphic Enclosure depth Enclosure depth Mounting depth with mounting plate Mounting depth with mounting plate Mounting depth for mounting rail 7.5 mm height	Description		Control cable entry
Wridth Height Depth Depth Dimensions Enclosure depth Legend for the graphic Enclosure depth Enclosure depth Mounting depth vith mounting plate Mounting depth vith mounting rail 7.5 mm height Mounting depth for mounting rail 7.5 mm height Mounting depth for mounting rail 7.5 mm height Mounting depth for mounting rail 7.5 mm height Mounting depth for mounting rail 7.5 mm height Mounting depth for mounting rail 7.5 mm height Mounting depth for mounting rail 7.5 mm height Mounting depth for mounting rail 7.5 mm height Mounting depth for mounting rail 7.5 mm height Mounting depth for mounting rail 7.5 mm height Mounting depth for mounting rail 7.5 mm height Mounting depth for mounting rail 7.5 mm height	Cable entry		hard knockout version
Height Depth Dimensions mm 160 Dimensions Enclosure depth Legend for the graphic Enclosure depth Enclosure depth Mounting depth for mounting plate Mounting depth for mounting rail 7.5 mm height Mounting depth for mounting rail 15 mm height mm 128	Dimensions		
Dimensions Enclosure depth Legend for the graphic Enclosure depth Enclosure depth Mounting depth for mounting rail 7.5 mm height	Width	mm	160
Dimensions Enclosure depth Legend for the graphic Enclosure depth Enclosure depth Company to the graphic depth with mounting plate Mounting depth for mounting rail 7.5 mm height Mounting depth for mounting rail 1.5 mm height mm The property of the graphic depth for mounting rail 1.5 mm height mounting depth for mounting rail 1.5 mm height mm Mounting depth for mounting rail 7.5 mm height mm Mounting depth for mounting rail 7.5 mm height mm To a section of the graphic manner means the graphic	Height	mm	240
Enclosure depth Legend for the graphic Dimensions from top: Mounting depth for mounting plate Mounting depth for mounting rail 7.5 mm height Enclosure depth mm 11 11 11 11 11 11 11 11 11 11 11 1	Depth	mm	160
Legend for the graphic Dimensions from top: Mounting depth with mounting rail 7.5 mm height Mounting depth for mounting rail 15 mm height Enclosure depth mm T 133 1 128 Mounting depth for mounting rail 7.5 mm height Mounting depth for mounting rail 7.5 mm height Mounting depth for mounting rail 7.5 mm height	Dimensions	mm	© © × 194 ×
Mounting depth for mounting rail 7.5 mm height mm Mounting depth for mounting rail 7.5 mm height mm 128	Enclosure depth		
Mounting depth for mounting rail 7.5 mm height mm 128	Legend for the graphic		Mounting depth with mounting plate Mounting depth for mounting rail 7.5 mm height
	Enclosure depth	mm	133
Features With mounting rail to IEC/EN 60715	Mounting depth for mounting rail 7.5 mm height	mm	128
	Features		With mounting rail to IEC/EN 60715

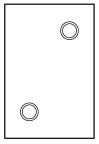
Notes

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Knockouts 2 x M32/25 1 x M20

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Back plate: 2 x M32/25

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	°C	-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	29.5
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	$\Omega \times 10^{13}$	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	0.9
Mounting rail	kg	0.9
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) to VDE 0471 Part 2)
to UL 94	VO/1.5 mm thickness
to UL 94	НВ
Halogen free	Yes

Design verification as per IEC/EN 61439

Technical data for design verification		
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 $^{\circ}\text{C}$	W	29.5
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.
10.2.3.1 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.

Technical data ETIM 6.0

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@ss81-77-37-13-01 [AKN343011])

(ecl@ss8.1-27-37-13-01 [AKN343011])		
Material housing		Plastic
Width	mm	160
Height	mm	240
Depth	mm	160

With transparent cover	No	
Suitable for emergency stop	Yes	
Model	Surface mounting	
Degree of protection (IP)	IP65	

Dimensions

