DATASHEET - CI-K5-125-TS

Insulated enclosure, HxWxD=280x200x125mm, +mounting rail

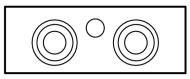
Powering Business Worldwide™

Part no.	**CI-K5-125-TS**
Catalog No.	**206891**
EL-Nummer (Norway)	**4138005**

Delivery program

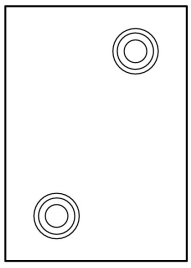
Product range			CI-K small enclosures
Basic function			Basic enclosures
Product function			CI-K empty enclosures
Single unit/Complete unit			Single unit
Degree of Protection			Front IP65 IP65, with push-through cable entry
Degree of Protection			Front IP65 IP65, with push-through cable entry
Material			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			hard knockout version
Dimensions			
Width		mm	200
Height		mm	280
Depth		mm	125
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
Mounting depth for mounting rail 7.5 mm height		mm	93
Features			With mounting rail to IEC/EN 60715 (weight of fitted components max. 0.65 kg)

Notes
P



Knockouts
2 x M50/40/25
1 x M20

W



Back plate:
2 x M50/40/25

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	35

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	1
Mounting rail		kg	1
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			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	35
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	35
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.
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	200
Height	mm	125
Depth	mm	280
With transparent cover		No
Suitable for emergency stop		Yes
Model		Surface mounting
Degree of protection (IP)		IP65
Degree of protection (NEMA)		Other

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