DATASHEET - CI-K4-160-TS



Insulated enclosure, HxWxD=240x160x160mm, +mounting rail

CI-K4-160-TS 206890

4132091

EL-Nummer

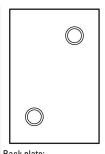
Part no. Catalog No.

(Norway)



Delivery program

Derivery 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	160
Height	mm	240
Depth	mm	160
Dimensions	mm	
Enclosure depth		
Legend for the graphic		Dimensions from top: Mounting depth with mounting plate Mounting depth for mounting rail 7.5mm height Mounting depth for mounting rail 15mm height
Enclosure depth	mm	
Mounting depth for mounting rail 7.5 mm height	mm	128
Features		With mounting rail to IEC/EN 60715
Notes 0 Knockouts 2 x M32/25 1 x M20		



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 $^{\circ}\mathrm{C}$	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	V0/1.5 mm thickness
to UL 94	НВ
Halogen free	Yes

Design verification as per IEC/EN 61439

observed.	Fechnical data for design verification			
Equipatent hast dissipation, concernet-dependent Pail W Concernet dependent Pail W Static biosipation, non-current-dependent Pail W 0 0 Geneting animiter transportance max. Pail W 25 0 Operating animiter transportance max. Pail W 25 0 0 Many reduced to device with separate mounting, aminient air animacity characterization. W 25 0	Rated operational current for specified heat dissipation	In	А	0
Natio had dissipation operators Part of a spectra problem interpretation man. Part of a spectra problem interproblem interpretation man. Part of	Heat dissipation per pole, current-dependent	P _{vid}	W	0
Heat disipation capacity Part of the second se	Equipment heat dissipation, current-dependent	P _{vid}	W	0
Operating ambient temperature min. 7 3 Operating ambient temperature max. 7 7 Begree of Pratection From Prass From Prass Max reglined base dissipation with separate mounting, ambient air amproving - 200 wire to VDE OUT Part 2 860 °C1mm thick peak-through cable entry. Max reglined base dissipation with separate mounting, ambient air amproving - 200 wire to VDE OUT Part 2 860 °C1mm thick peak-through mounting wire VDE OUT Part 2 Stark resistance CTI 175 (Dass., block - Bit Difference - Bit Differe	Static heat dissipation, non-current-dependent	P _{vs}	w	0
Operating ambiert temperature max. Image: Procession 70 Degree of Protection From 1965, with sub-through cable only Max: redicable here dissignation with separate mounting, ambient air memperature 20°C 800 °C/m mitch/secsion (Bac, core); ambiends in VOE 6071 Part 2) Flemmability, characteristics 800 °C/m mitch/secsion (Bac, core); ambiends in VOE 6071 Part 2) Surface breatment 800 °C/m mitch/secsion (Bac, core); ambiends in VOE 6071 Part 2) Surface breatment 800 °C/m mitch/secsion (Bac, core); ambiends in VOE 6071 Part 2) Surface breatment 800 °C/m mitch/secsion (Bac, core); ambiends in VOE 6071 Part 2) Surface breatment 800 °C/m mitch/secsion (Bac, core); ambiends in VOE 6071 Part 2) Temperature corestance 400 °C 20° (Contours) Temperature corestance 900 °C/m mitch/secsion (Bac, Core); ambiends in VOE 6071 Part 2) Text resistance 900 °C/m mitch/secsion (Bac, Core); ambiends in VOE 6071 Part 2) Text resistance 900 °C/m mitch/secsion (Bac, Core); ambiends in VOE 6071 Part 2) Text resistance 900 °C/m mitch/secsion (Bac, Core); ambiends in VOE 6071 Part 2) Text resistance 900 °C/m mitch/secsion (Bac, Core); ambiends in VOE 6071 Part 2) Text resistance 900 °C/m mitch/secsion (Bac, Core); ambiends in VOE 600 °C/m mitch/secsion (Bac,	Heat dissipation capacity	P _{diss}	w	29.5
Degree of Protection Fort P85 Fort P85 Max radiated heat dissipation with separate mounting, ambient air temperature : 20 °C Post P85 Post P85 Remanking values closely closely separate mounting, ambient air temperature : 20 °C Post P85 Post P85 Remanking values closely closely closely closely separate mounting, ambient air temperature : 20 °C Post P85 Post P85 Track resistance Closely cl	Operating ambient temperature min.		°C	-25
Max. radiated selection with separate mounting, ambient at megarinane 2010 PES, with push-through cable array Max. radiated selection with separate mounting, ambient at megarinane 2010 PES, with push-through cable array Rammability characteristics 251 Rammability characteristics 250 Surface treatment 250 Importance resistance 251 Resistant to carrasion 250 Importance resistance 250 Importance resistance 250 Variation of the set set set set set set set set set se	Operating ambient temperature max.		°C	70
imparture - 34° C impart is in the intervention of the interventinterventinte intervention of the interventintervention	Degree of Protection			
Tack resistance C11m mix (k (ust-frequence) membrane) to VDE 601 Par 2) Surface resistance C11 TS (sover, to IEC 60112) Impact resistance K66 according to EN 50102 Temperature resistant -40 °C - 20 °C (lead Surface) UV resistance C11 TS (sover, to IEC 60112) 102 Strength of materials and parts C11 TS (sover, to IEC 60112) 102 Strength of resistance of insulating materials to abnormal heat Mest the product standard's requirements. 102 Strength of resistance of insulating materials to abnormal heat Mest the product standard's requirements. 102.2 Volication of resistance of insulating materials to abnormal heat Mest the product standard's requirements. 102.2 Volication of assettance Please enquire 102.2 Volication of assettance Mest the product standard's requirements. 102.2 Volication of assettance Mest the product standard's requirements. 102.2 Volication of ASSEMBUES Mest the product standard's requirements.			W	29.5
Surface treatment CTI 175 (cover, to IEC 0012) Surface treatment K06 according to EN 50102 Imperature resistant -0 °C - 10 °C (classure) UV resistance -0 °C - 10 °C (classure) UV resistance -0 °C - 10 °C (classure) 102 Strength of materials and parts -0 °C - 10 °C (classure) 102 Strength of materials and parts -0 °C - 10 °C (classure) 102 Strength of materials and parts -0 °C - 10 °C (classure) 102 Strength of materials and parts -0 °C - 10 °C (classure) 102 Strength of materials and parts -0 °C - 10 °C (classure) 102 Strength of materials and parts -0 °C - 10 °C (classure) 102 Strength of materials and parts -0 °C - 10 °C (classure) 102 Strength of materials and parts -0 °C - 10 °C (classure) 102 Strength of materials and parts -0 °C - 10 °C (classure) 102 Strength of materials and parts -0 °C - 10 °C (classure) 102 Strength of materials and parts -0 °C - 10 °C (classure) 102 Strength of materials and parts -0 °C - 10 °C (classure) 102 Strength of materials and parts -0 °C - 10 °C (classure) 102 Strength of materials and parts -0 °C - 10 °C (classure) 102 Strength of	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)
Impact resistance KKB according to EN S0102 Temperature resistant 40 °C · 120 °C (packet) UV resistance 40 °C · 120 °C (packet) UV resistance 40 °C · 120 °C (packet) 102 Strength of materials and parts 60 °C · 60 °C (packet) 102.2 Corrosion resistance of insulating materials to normal heat 60 °C · 60 °C (packet) 102.3 Verification of resistance of insulating materials to normal heat 60 °C · 60 °C (packet) 102.3 Verification of resistance of insulating materials to normal heat 60 °C · 60 °C (packet) 102.3 Verification of resistance of insulating materials to abnormal heat 60 °C · 60 °C (packet) 102.3 Verification of resistance of insulating materials to abnormal heat 60 °C · 60 °C (packet) 102.4 Resistance to interval olocric effects 60 °C · 60 °C (packet) 102.4 Resistance to interval olocric effects 70 °C · 60 °C (packet) 102.5 Urification of resistance of insulating materials to abnormal heat 60 °C · 60 °C (packet) 102.4 Resistance to interval olocric effects 70 °C · 60 °C (packet) 102.5 Urification of resistance of insulating materials to abnormal heat 60 °C · 60 °C (packet) 102.4 Resistance to interval olocric effects 70 °C · 60 °C (packet) 102.5 Urifica	Track resistance			
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10.6 Incorporation of switching devices and componentsDoes not apply, since the entire switchgear needs to be evaluated.10.7 Internal electrical circuits and connectionsIs the panel builder's responsibility.10.8 Connections for external conductorsIs the panel builder's responsibility.10.9 Insulation propertiesIs the panel builder's responsibility.10.9.1 Power-frequency electric strengthIs the panel builder's responsibility.10.9.3 Impulse withstand voltageIs the panel builder's responsibility.10.9.4 Testing of enclosures made of insulating materialMeets the product standard's requirements.10.10 Temperature riseThe panel builder's responsibility. The specifications for the switchgear must to observed.10.11 Short-circuit ratingIs the panel builder's responsibility. The specifications for the switchgear must to observed.10.13 Mechanical functionThe device meets the requirements, provided the information in the instruction	10.4 Clearances and creepage distances			Meets the product standard's requirements.
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10.8 Connections for external conductors Is the panel builder's responsibility. 10.9 Insulation properties Is the panel builder's responsibility. 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's responsibility. The specifications for the switchgear must for boserved. 10.11 Short-circuit rating Is the panel builder's responsibility. The specifications for the switchgear must for observed. 10.12 Electromagnetic compatibility Is the panel builder's responsibility. The specifications for the switchgear must for observed. 10.13 Mechanical function The device meets the requirements, provide the information in the instruction	10.6 Incorporation of switching devices and components			Does not apply, since the entire switchgear needs to be evaluated.
10.9 Insulation properties Image: Constraint of the second se	10.7 Internal electrical circuits and connections			Is the panel builder's responsibility.
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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 Image: Compatibility of the switchgear must be observed.	10.9.4 Testing of enclosures made of insulating material			Meets the product standard's requirements.
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	10.10 Temperature rise			
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	10.12 Electromagnetic compatibility			Is the panel builder's responsibility. The specifications for the switchgear must be observed.
	10.13 Mechanical function			

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])

	Plastic		
mm	160		
mm	240		
mm	160		
	No		
	Yes		
	Surface mounting		
	IP65		
	Other		
	mm		

Dimensions

