# DATASHEET - CI-K3-160-M

Part no. Catalog No.

**EL-Nummer** 

(Norway)



Insulated enclosure, HxWxD=200x120x160mm, +mounting plate

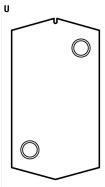


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## **Delivery program**

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 120
Height	mm 200
Depth	mm 160
Dimensions	
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 1 133 1 128 1 10 1 60
Mounting depth with mounting plate	mm 133
Features	With mounting plate
Notes N N Knockouts 2 x M25/20	R Knockouts 2 × M25/20 1 × M20



Back plate: 2 x M25/20

#### Technical data General

Power loss Power loss Power loss Power loss Power loss Power loss   Max. radiated heat dissipation with separate mounting, ambient air bmperature - 20 °C W 25.5   Material characteristics Suffer einforced polycarbonate   Material Characteristics Gass-fibre reinforced polycarbonate   Base Gass-fibre reinforced polycarbonate   Cover Gass-fibre reinforced polycarbonate   Surface treatment Suffer einforced polycarbonate   Power lossing body Gase fibre reinforced polycarbonate   Base Rel Gase   Techtreat Suffer einforced polycarbonate   Power lossing body Suffer einforced polycarbonate   Techtreat Suffer einforced polycarbonate   Techtreat Suffer einforced polycarbonate   Power lossing body Suffer einforced polycarbonate   Techtreat Suffer einforced polycarbonate   Suffer einforced polycarbonate Suffer einforced polycarbonate   Suffer einfor	General		
Ambient may may alor is a field in the many status (Section Section Sec	Standards		
begree of Protection image: approximation of the second	Climatic proofing		
Prove loss     Prove dels del disipation with separate mounting, ambiént al generation 2010 with separate mounter separate mounting, ambiént al generation 2010 with separate	Ambient temperature	°C	
Max. radiated heat dissipation with separate mounting, ambient pire temperature : 0° °C     25       Material Characteristics     Material Characteristics       Base     Galase After reinforced polycarhomate       Cover     Galase After reinforced polycarhomate       Cover     Resistant to consoin       Surface treatment     Resistant to consoin       Color     Resistant to consoin       Base     Resistant to consoin       Material Poperties     Resistant to consoin       Tack resistance     Image: Surface treatment in the surface treatment i	Degree of Protection		
tering to a row of the second seco	Power loss		
Material   Image: State of the section of the sectin the section of the sectin the section of the		W	25.5
Base     Ease-fibre reinforced polycarbonate       Cover     Giase-fibre reinforced polycarbonate       Surface treatment     Giase-fibre reinforced polycarbonate       Colour     Resistant to corrosion       Base     Mathematical Colour       Base     Mathematical Colour       Base     Mathematical Colour       Mathematical properties     Resistant to corrosion       Tarck resistance to IEC 60083     Colour       Surface resistance to IEC 60083     Colour       Delectric strength to IEC 60083     Colour       Impact resistance     Colour       Maunting rail     Colour       Maunting rail     Colour       Chemical resistant     Res       Maunting rail     Social Colour       Maunting rail     Social Colour       Maunting rail     Colour       Maunting rail     Social Colour       Maunting rail	Material characteristics		
CoverGlass fibre reinforced polycarbonateSurface treatmentResistant to corresionColourResistant to corresionBaseRel 3005, black (matt)Housing bodyRel 3005, black (matt)Housing bodyRel 3005, black (matt)Tark resistanceRel 3005, black (matt)Tark resistance to IEC 60083Image: Status on the Corresistance to IEC 60083Delectric strength to IEC 60043-1Image: Status on the CorresistanceTark resistance to IEC 60083Image: Status on the Corresistance to IEC 60043-1Image: Tark resistance to IEC 60083Image: Status on the Corresistance to IEC 60043-1Image: Tark resistance to IEC 60083Image: Status on the Corresistance to IEC 60043-1Image: Tark resistance to IEC 60043-1Image: Status on the Corresistance to IEC 60043-1Image: Tark resistance to IEC 60043-1Image: Status on the Corresistance to IEC 60043-1Image: Tark resistance to IEC 60043-1Image: Status on the Corresistance to IEC 60043-1Image: Tark resistance to IEC 60043-1Image: Status on the Corresistance to IEC 60043-1Image: Tark resistance to IEC 60043-1Image: Status on the Corresistance to IEC 60043-1Image: Tark resistance to IEC 60043-1Image: Status on the Corresistance to IEC 60043-1Image: Tark resistance to IEC 60043-1Image: Status on the Corresistance to IEC 60043-1Image: Tark resistance to IEC 60043-1Image: Status on the Corresistance to IEC 60043-1Image: Tark resistance to IEC	Material		
Surface treatment   Resident to corosion     Colour   AL 9005, black (mat)     Base   AL 9005, black (mat)     Bosing body   Income of AL 9005, black (mat)     Material properties   Eclosure cover RAL 7025, light grey (mat)     Externial registrance   Income of AL 9005, black (mat)     Externial properties   Income of AL 9005, black (mat)     Externial   Income of AL 9005, black (mat)     Surface resistance   Income of AL 9005, black (mat)     Dielectric strength to IEC 60093   Income of AL 9005, black (mat)     Dielectric strength to IEC 60023-1   Income of AL 9005, black (mat)     Temperature resistant   Income of AL 9005, black (mat)     Impert resistance   Income of AL 9005, black (mat)     Insection   Income of AL 9005, black (mat)     Mounting rail   Kos coording to EN 90102     Mounting rail   Income of AL 9005, black (mat)     Mounting rail   Income of AL 9005, black (mat)     Chemical resistance   Income of AL 9005, black (mat)     Chemical resistant dent income of AL 9005, black (mat)   Base, Cover     Resistant against. Acticle v10%, mineral oil, actobil, genobil on scienter against. Acticle v10%, mineral oil, actobil, genobil 9005, black (mat)	Base		Glass-fibre reinforced polycarbonate
Colour ALl 9005, black (math)   Base ALl 9005, black (math)   Musing body Ecolosure cover ALL 7005, light grey (math)   Material properties Ecolosure cover ALL 7005, light grey (math)   Track resistance Impact resistance   Track resistance to EC 50093 Impact Network (Minitorial Control Network (Minitorial Co	Cover		Glass-fibre reinforced polycarbonate
Base RL 2005, black (mett)   Housing body Inclosure cover RAL 7035, light grey (mat)   Material properties Inclosure cover RAL 7035, light grey (mat)   Teck resistance Inclosure cover RAL 7035, light grey (mat)   Teck resistance Internal   Teck resistance to IEC 60083 Internal   Deleticit strength to IEC 60243-1 Internal   Temperature resistant Internal   Inpact resistance Internal   Mechanical Internal   Inpact resistance Internal   Mounting rail Internal   Chemical resistance Internal   Inpact resistance Internal   Chemical resistance Internal   Inducting rail Internal   Chemical resistance Internal   Internal Internal   Internal Internal   Internal Internal   Internal Internal   Internal Internal   Internal Internal	Surface treatment		Resistant to corrosion
Housing body   Enclosure cover RAL 7035, light grey (matt)     Housing body   Enclosure cover RAL 7035, light grey (matt)     Housing body   In 175 (doover, to ECG 0012)     Track resistance   In 2 x 10 <sup>3</sup> Surface resistance to ECG 00033   In 2 x 10 <sup>3</sup> Dielectric strength to ECG 0023-1   In 2 x 10 <sup>3</sup> Temmal   In 2 x 10 <sup>3</sup> Temperature resistant   In 0 <sup>-1</sup> C · 120 °C (enclosure)     Mounting alter   In 0 <sup>-1</sup> C · 120 °C (enclosure)     Mounting plate   In 0 <sup>-1</sup> C · 120 °C (enclosure)     Mounting rail   In 0 <sup>-1</sup> C · 120 °C (enclosure)     Chemical resistance   In 0 <sup>-1</sup> C · 120 °C (enclosure)     Mounting rail   In 0 <sup>-1</sup> C · 120 °C (enclosure)     Chemical resistance   In 0 <sup>-1</sup> C · 120 °C (enclosure)     Involuting rail   In 0 <sup>-1</sup> C · 120 °C (enclosure)     Chemical resistance   In 0 <sup>-1</sup> C · 120 °C (enclosure)     Involuting rail   In 0 <sup>-1</sup> C · 120 °C (enclosure)     Chemical resistance   In 0 <sup>-1</sup> C · 120 °C (enclosure)     Involuting rail   In 0 <sup>-1</sup> C · 120 °C (enclosure)     Involuting rail   In 0 <sup>-1</sup> C · 120 °C (enclosure)     Involuting rail   In 0 <sup>-1</sup> C · 120 °C ·	Colour		
Material properties   Item (Interpreting (	Base		RAL 9005, black (matt)
Electrical   Image: section of EC 60083   Electrical   CT 175 (base, to IEC 60112) CT 175 (base, to IEC 60112) CT 175 (base, to IEC 60112)     Surface resistance to IEC 60283   Image: section of EC 60283   Image: section of EC 60243-1     Dielectric strength to IEC 60243-1   Image: section of EC 60243-1   Image: section of EC 60243-1     Temperature resistant   Image: section of EC 60243-1   Image: section of EC 60243-1     Mechanical   Image: section of EC 60243-1   Image: section of EC 60243-1     Mechanical   Image: section of EC 60243-1   Image: section of EC 60243-1     Image: resistance   Image: section of EC 60243-1   Image: section of EC 60243-1     Mechanical   Image: section of EC 60243-1   Image: section of EC 60243-1     Image: resistance   Image: section of EC 60243-1   Image: section of EC 60243-1     Mounting rail   Image: section of EC 60243-1   Image: section of EC 60243-1     Mounting rail   Image: section of EC 60243-1   Image: section of EC 60243-1     Chemical resistant   Image: section of EC 60243-1   Image: section of EC 60243-1     Atmospheric   Image: section of EC 60243-1   Image: section of EC 60243-1     Atmospheric   Image: section of EC 60243-1   Image: section of EC 60243-1			Enclosure cover RAL 7035, light grey (matt)
Tack resistance   In 175 (base, to IEC 6012)     Surface resistance to IEC 6003   In 175 (cover, to IEC 6012)     Delectric strength to IEC 6024-1   MVmm     Temmal   OC 120 °C (aclosure)     Temperature resistant   OC 120 °C (aclosure)     Inpact resistant   OC 120 °C (aclosure)     Inpact resistant   Monting to IEC 6014)     Mounting plate   Mounting rail     Mounting rail   Mounting rail     Chemical resistant   Mounting rail     Chemical resistant   Sase, Over     Resistant against: Acids < 10 %, mineral oil, alcohol, gasoline, greases, salt solutions	Material properties		
CTI 175 (cover, to IEC 6012)     Surface resistance to IEC 60093   0     Dielectric strength to IEC 60243-1   KV/m     Temperature resistant   KV/m     Temperature resistant   40°C · 120 °C (enclosure)     Impact resistance   40°C · 120 °C (gasket)     Impact resistance   40°C · 120 °C (gasket)     Mounting plate   Kg     Mounting rail   Kg     Chemical resistance   Kg     Subicity   Sasee, Cover     Resistant against: Acids < 10 %, mineral oil, alcohol, gasoline, greases, salt solutions so	Electrical		
Dielectric strength to EC 60243-1   KV/mm   3     Thermal   -40 °C - 120 °C (enclosure) -40 °C - 120 °C (enclosure) -40 °C - 480 °C (gasket)     Mechanical   -40 °C - 120 °C (enclosure) -40 °C - 480 °C (gasket)     Impact resistance   -40 °C - 120 °C (enclosure) -40 °C - 120 °C (motosure)     Mounting plate   -40 °C - 120 °C (enclosure)     Mounting rail   -40 °C - 120 °C (motosure)     Chemical resistance   -40 °C - 120 °C (motosure)     Amounting rail   -40 °C - 120 °C (motosure)     Amounting rail   -40 °C - 120 °C (motosure)     Saline spray   -40 °C - 120 °C (motosure)     Murting plate   -40 °C - 120 °C (motosure)     Saline spray   -40 °C - 120 °C (motosure)     Murting plate   -40 °C - 120 °C (motosure)     Saline spray   -40 °C - 120 °C (motosure)     Murting plate   -40 °C - 120 °C (motosure)     Murting plate   -40 °C - 120 °C (motosure)     Murting plate   -10 °C - 120 °C (motosure)	Track resistance		
Inernal   40 °C 120 °C (enclosure) -40 °C +80 °C (gasket)     Mechanical   40 °C 120 °C (enclosure) -40 °C +80 °C (gasket)     Impact resistance   K06 according to EN 50102     Mounting plate   kg   85     Mounting rail   kg   88     Chemical resistance   88   Secover Resistant against: Acids < 10 %, mineral oil, alcohol, gasoline, greases, salt solutions     Chemical resistant   88   Secover Partly resistant C: Acids > 10 %, mineral oil, alcohol, gasoline, greases, salt solutions     Amospheric   Partly   Partly resistant C: Acids > 10 %, alkalis, benzene Not resistant C:	Surface resistance to IEC 60093	Ω x 10 <sup>1:</sup>	3 1
Temperature resistant   0 °C · 120 °C (enclosure)     Mechanical   - 40 °C · 400 °C (gasket)     Impact resistance   K06 according to EN 50102     Mounting plate   0 85     Mounting rail   Mounting rail     Chemical resistance   88     Chemical resistance   88     Chemical resistance   88     Chemical resistance	Dielectric strength to IEC 60243-1	kV/mm	30
Mechanical   40 °C + 80 °C (gasket)     Mechanical   K66 according to EN 50102     Impact resistance   K66 according to EN 50102     Mounting plate   Meg     Mounting rail   Kg     Mencial resistance   Sase Cover     Chemical resistante   Sase, Cover     Answight   Sase, Cover     Resistant against. Acids < 10 %, mineral oil, alcohol, gasoline, greases, salt Solitons	Thermal		
Impact resistance   K66 according to EN 50102     Impact resistance   K8     Mounting rail   K8     Chemical resistance   K8     Chemical resistant   K8     Chemical resistant   K8     Amospheric   K8     Saline spray   K60 according to EN 50102     UV resistance   K8     K1   K8     K1   K8     K1   K1     K2   K1     K2   K2     K2   K2     K2   K2     K2   K2	Temperature resistant		
max. assembly weightsinitial constraintsMounting plateImage: ConstraintsMounting railImage: ConstraintsChemical resistanceImage: ConstraintsChemical resistantImage: ConstraintsAtmosphericImage: ConstraintsSaline sprayImage: ConstraintsUV resistanceImage: ConstraintsUV resistanceImage: ConstraintsChemical resistanceImage: ConstraintsChemical resistanceImage: ConstraintsChemical resistanceImage: ConstraintsChemical resistanceImage: ConstraintsChemical resistantImage: Con	Mechanical		
Mounting platekg.85Mounting railkg.85Chemical resistanceMounting rail.85Chemical resistantSales, 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 %, alkalis, benzene Not resistant to: Acids > 10 %, alkalis, benzene, salt solutions Partly resistant to: Acids > 10 %, alkalis, benzene, salt solutions Partly resistant to: Acids > 10 %, alkalis, benzene and the component of the component o	Impact resistance		IK06 according to EN 50102
Mounting railkg0.85Chemical resistanceImage: Chemical resistantSase, Cover Resistant against: Acids < 10 %, mineral oil, alcohol, gasoline, greases, salt solutions Partly resistant to: Acids > 10 %, alcohol yush-through membrane (CI-K1/CI-K2) and sealing material Resistant to: alkalis, benzene yush-through membrane (CI-K1/CI-K2) and sealing material Resistant to: Acids > 10 %, alcohol yush-through membrane (CI-K1/CI-K2) and sealing material Resistant to: Alkalis, benzene Not resistant to: Acids > 10 %, alcohol yush-through membrane (CI-K1/CI-K2) and sealing material Resistant to: Alkalis, benzene, salt solutions Partly resistant to: Acids > 10 %, alcohol yush-through membrane (CI-K1/CI-K2) and sealing material Resistant to: Alkalis, benzene, salt solutions Partly resistant to: Acids > 10 %, alcohol yush-through membrane (CI-K1/CI-K2) and sealing material Resistant to: Alidis > 10 %, alcohol yush-through membrane (CI-K1/CI-K2) and sealing material Resistant to: Acids > 10 %, alcohol yush-through membrane (CI-K1/CI-K2) and sealing material Resistant to: Acids > 10 %, alcohol yout resistant to: Alcohol yout resistant to: Alcohol yout resistant to: Alcohol yout resistant to: Alcohol	max. assembly weights		
Chemical resistant   Image: Chemical resistant     Chemical resistant   Image: Chemical resistant     Chemical resistant   Image: Chemical resistant     Saline spray   Image: Chemical resistant     OV resistant ce   Image: Chemical resistant     OV resistant ce   Image: Chemical resistant ce     Saline spray   Image: Chemical resistant ce     OV resistant ce   Image: Chemical resistant ce     Image: Chemical resistant ce   Image: Chemical resistant ce     Saline spray   Image: Chemical resistant ce     Image: Chemical resistant ce   Image: Chemical resistant ce     Image:	Mounting plate	kg	0.85
Chemical resistantBase, 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: Akids > 10 %, greases, benzene, salt solutions Partly resistant to: Mineral oil, benzeneAtmosphericIEC 60068-2-11Saline sprayIEC 60068-2-11UV resistanceIEC 60068-2-11	Mounting rail	kg	0.85
AtmosphericIsolation <td>Chemical resistance</td> <td></td> <td></td>	Chemical resistance		
Saline spray IEC 60068-2-11   UV resistance IEC 60068-2-11	Chemical resistant		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
UV resistance Beneath protective shield	Atmospheric		
	Saline spray		IEC 60068-2-11
Water consumption to DIN EN ISO 62 % 0.29	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	HB
Halogen free	Yes

# Design verification as per IEC/EN 61439

Technical data for design verification   In   A   0     Rated operational current for specified heat dissipation   In   A   0     Heat dissipation per pole, current-dependent   Pvid   W   0     Equipment heat dissipation, current-dependent   Pvid   W   0     Static heat dissipation, non-current-dependent   Pvs   W   0	
Heat dissipation, current-dependent Pvid W   Pvid W	
Equipment heat dissipation, current-dependent P <sub>vid</sub> W 0	
Static heat dissination non-current-dependent P W/ 0	
Heat dissipation capacity P <sub>diss</sub> W 25.5	
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 W 25.5 temperature +20 °C	
Flammability characteristics   960 °C/1mm thickness (base, cover; glow win 650 °C/1mm thick (push-through membrane)	
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.	i.
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	
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.	í.
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	
10.9.4 Testing of enclosures made of insulating material Meets the product standard's requirements.	<i>i</i> .
10.10 Temperature rise   The panel builder is responsible for the temp provide heat dissipation data for the devices	
10.11 Short-circuit rating Is the panel builder's responsibility. The spec	cifications for the switchgear must be
10.12 Electromagnetic compatibility Is the panel builder's responsibility. The spen observed.	cifications for the switchgear must be
10.13 Mechanical function The device meets the requirements, provide leaflet (IL) is observed.	ed the information in the instruction

### **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])

Material housing			Plastic	
Width	m	ım	120	
Height	m	ım	200	
Depth	m	ım	160	
With transparent cover			No	
Suitable for emergency stop			Yes	
Model			Surface mounting	
Degree of protection (IP)			IP65	
Degree of protection (NEMA)			Other	

# Dimensions

