

**Panel enclosure, with gland plate and cable glands,  
HxWxD=375x375x225mm**

**Part no. KST44-200**

**Catalog No. 093504**

**EL-Nummer 2502345  
(Norway)**

### Delivery program

Product range			xEnergy Safety Ci
Basic function			Basic enclosures
Product function			Panel enclosure with gland plates fitted
Single unit/Complete unit			Stand-alone device
Standards			EN 62208 EN 61439-2
Degree of Protection			IP65
Description			Sealable cover fasteners Sides closed, but with full area knockout Open top Fitting of cable supports in the distribution board with wedge-lock fastener Gland plate can be split, cables can be inserted from the front
Colour			RAL 7035, light gray (base) Transparent, smoky gray (cover)
Width		mm	375
Height		mm	375
Depth		mm	225
Mounting depth with mounting plate		mm	200
Mounting depth for mounting rail 7.5 mm height		mm	192.5
Mounting depth for mounting rail 15 mm height		mm	185
<b>Enclosure depth</b>			
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
Cable entry			3 x 14 - 68

### Technical data

#### General

Standards			EN 62208 EN 61439-2
Ambient temperature		°C	-40 - +80
Ambient temperature			
Mean value over 24 hours		°C	35
Limit values		°C	
Ambient temperature limit value min.		°C	-5
Ambient air temperature, limit values max.		°C	40
Degree of Protection			IP65
Protection type			IP65 (Enclosure) IP65 (KST cable entries from below) IP64 (KST cable entries from above) IP00 (Cable entry open)
Components			Switchgear assembly components are type-tested. They are available individually for the self-assembly of switchgear installations, distribution boards and control panels.
Devices that can be fitted			The reference values indicated in the table apply to the basic elements of the distribution board. As far as devices, terminals etc. fitted into the enclosures are concerned, their own specific technical data and rated values apply.
Standards			
TTA - Type Tested Assemblies			IEC/EN 60439-1, VDE 0660 Part 500
Low-voltage fuses			IEC/EN 60269, VDE 0636
Type test			VDE 0660 Part 500, IEC/EN 60439-1

Creepage and clearance distances			III/3 to IEC/EN 60439-1
Flammability characteristics - Glow rod test			VDE 0304 Part 3 level IIb, level IIb to IEC 60707
Regulation for the fire resistance tests of electrical products, their modules and components, glow wire test			VDE 0471 Part 2
Operating and ambient conditions to VDE 0660 Part 500			
Ambient temperature			
Mean value over 24 hours		°C	35
Limit values		°C	-5 ... 40
Indoor installation			
Relative humidity			90 % (at 20°C) 50% (at 40°C)
Altitude		m	Max. 2000
Protection type			IP65 (Enclosure) IP65 (KST cable entries from below) IP64 (KST cable entries from above) IP00 (Cable entry open)
Mounting grid		mm	25 (DIN 43660)

## Material characteristics

Material			glass-fibre reinforced polycarbonate (base) non-reinforced polycarbonate (cover) Halogen free
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## Material properties

Electrical			
Track resistance			KB160, KC175 (base, to IEC 60112) KB100, KC200 (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) 85 °C (enclosure bolt) 80 °C (gasket)
Chemical resistance			
Chemical resistant			Resistant against: Acids < 10 %, mineral oil, alcohol, gasoline, greases, salt solutions Partly resistant to: Acids > 10 % Not resistant to: alkalis, benzene
Atmospheric			
Saline spray			IEC 60068-2-11
UV resistance			Beneath protective shield
Flammability characteristics			
Flammability classification according to UL94			V1 (base) V2 (cover)

## Design verification as per IEC/EN 61439

Technical data for design verification			
Heat dissipation, at an ambient temperature of 35°C, delta T: 20 degrees in top of the enclosure, calculated as per IEC 60890			
Individual enclosure for wall mounting	P <sub>V</sub>	W	31
Starting enclosure for wall mounting	P <sub>V</sub>	W	29
Middle enclosure for wall mounting	P <sub>V</sub>	W	27
Heat dissipation, at an ambient temperature of 35°C, delta T: 35 degrees in top of the enclosure, calculated as per IEC 60890			
Individual enclosure for wall mounting	P <sub>V</sub>	W	62
Starting enclosure for wall mounting	P <sub>V</sub>	W	57
Middle enclosure for wall mounting	P <sub>V</sub>	W	53
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			Lower part: 960 °C / cover: 850 °C; meets the product standard's requirements.

10.2.4 Resistance to ultra-violet (UV) radiation		Not relevant to indoor installations.
10.2.5 Lifting		20 kg per enclosure with support frame and lifting aid met; assembled and secured as per the latest applicable instruction leaflet.
10.2.6 Mechanical impact		IK10
10.2.7 Inscriptions		Meets the product standard's requirements.
10.3 Degree of protection of ASSEMBLIES		IP65
10.4 Clearances and creepage distances		Is the panel builder's responsibility.
10.5 Protection against electric shock		Protection class 2, therefore not applicable.
10.6 Incorporation of switching devices and components		Is the panel builder's responsibility.
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		$U_i = 1000 \text{ V AC}$
10.9.3 Impulse withstand voltage		8 kV
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.
10.12 Electromagnetic compatibility		Is the panel builder's responsibility.
10.13 Mechanical function		Meets the product standard's requirements.

## Technical data ETIM 8.0

Distribution boards (EG000023) / Empty cabinet (EC000058)			
Electric engineering, automation, process control engineering / Electrical installation, device / Electrical distribution system (incl. small distribution board) / Empty cabinet (small distribution board) (ecl@ss10.0.1-27-14-24-08 [ACN385011])			
Mounting method			Surface mounted (plaster)
Type of cover			Cover
Cover model			Closed
Type of door			None
Transparent cover/door			Yes
With lock			No
Nominal current (In)	A		1600
Height	mm		375
Width	mm		375
Depth	mm		225
Built-in depth	mm		200
Internal depth	mm		200
Material plate thickness cabinet	mm		6
Material plate thickness door/cover	mm		6
Colour			Grey
RAL-number			7035
Number of modules			1
Number of rows			0
Width in number of modular spacings			15
Number of openings for flange plates			4
Extension possible			Yes
Number of conduit inlets			100
Material housing			Plastic
Surface protection			Other
With mounting plate			No
Suitable for outdoor use			Yes
Suitable for lightning protection			Yes
Degree of protection (IP)			IP65
Degree of protection (NEMA)			Other
Protection class			II
Impact strength			IK10

Circuit integrity			Other
Cover with overpressure release			Yes