DATASHEET - KST44-200

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

Powering Business Worldwide

Part no.	**KST44-200**
	093504
EL Number (Norway)	**2502345**

General specifications

Product name	Eaton xEnergy Safety Ci empty enclosure insulated
Part no.	KST44-200
EAN	4015080935049
Product Length/Depth	225 millimetre
Product height	375 millimetre
Product width	375 millimetre
Product weight	3.4 kilogram
Compliances	IEC/EN 60439-1, VDE 0660 Part 500 RoHS conform
Certifications	EN 61439-2 EN 62208
Product Tradename	xEnergy Safety Ci
Product Type	Empty enclosure
Product Sub Type	Insulated

Delivery program

Type	Basic enclosure Panel enclosure with gland plates fitted xEnergy Safety Ci
Color	Gray Light gray (RAL 7035, base) Transparent, smoky gray (cover)
Nominal current	1600 A

Technical Data - Electrical

Dielectric strength	30 kV/mm
Creepage resistance	KB160, KC175 (base, to IEC 60112) KB100, KC200 (cover, to IEC 60112)
Operating altitude without derating - max	2000 mm
Circuit integrity	Other

Technical Data - Mechanical

Unit type	Stand-alone device
Surface protection	Other
Enclosure material	Plastic
Width in number of modular spacings	15
Mounting depth with mounting plate	200 mm
Mounting grid	25 mm (DIN 43660)
Mounting method	Surface mounted (plaster)
Material	Halogen free Glass-fibre reinforced polycarbonate (base) Non-reinforced polycarbonate (cover)
Degree of protection	IP65 (enclosure) IP64 (KST cable entries from above) IP00 (cable entry open) IP65 (KST cable entries from below) IP65 IK10 Other
Number of conduit inlets	100
Number of modules	1
Number of openings (flange plates)	4
Number of rows	0
Relative humidity	50 % (at 40 °C) 90 % (at 20 °C)
Built-in depth	200 mm

Internal depth	200 mm
Cable entry type	14 - 68 mm (3x)
Cover/door color	Transparent
Cover/door model	Closed
Cover/door type	Cover None
Creepage and clearance distances	III/3 to IEC/EN 60439-1 (standard)
Plate thickness (cabinet)	6 mm
Plate thickness (cover/door)	6 mm
Saline spray resistance	IEC 60068-2-11
Temperature-rise verification as per IEC 60890	
Heat diss. ambient 35°C delta T: 20°C wall mount middle encl. top (IEC 60890)	27 W
Heat diss. ambient 35°C delta T: 35°C wall mount middle encl. top (IEC 60890)	53 W
Heat diss. ambient 35°C delta T:20°C wall mount individ. encl. top (IEC 60890)	31 W
Heat diss. ambient 35°C delta T:20°C wall mount starting encl. top (IEC 60890)	29 W
Heat diss. ambient 35°C delta T:35°C wall mount individ. encl. top (IEC 60890)	62 W
Heat diss. ambient 35°C delta T:35°C wall mount starting encl. top (IEC 60890)	57 W
Design verification as per IEC/EN 61439 - technical data	
Temperature resistance	Temperature resistant: -40 °C - 120 °C (enclosure) Temperature resistant: 85 °C (enclosure bolt) Temperature resistant: 80 °C (gasket)
Ambient operating temperature - min	-5 °C
Ambient operating temperature - max	40 °C
Mean ambient operating temperature (24 hours)	35 °C
Design verification as per IEC/EN 61439	
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 Resist. of insul. mat. to abnormal heat/fire by internal elect. effects	Lower part: 960 °C / cover: 850 °C
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.
10.9.2 Power-frequency electric strength	Ui = 1000 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.
Additional information	
Features	UV resistance beneath protective shield Cover with overpressure release
Flammability characteristics (UL)	V2 (cover) (UL94) V1 (base) (UL94)
Flammability characteristics of glow rod test	VDE 0304 Part 3 level IIb, level IIb to IEC 60707
Functions	Extension possible
Protection class	II
RAL-number	7035

Special features			Low-voltage fuses (IEC/EN 60269, VDE 0636) 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
Suitable for			Lightning protection Outdoor use
Surface resistance (IEC 60093)			10
Used with			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.

Technical data ETIM 9.0

Distribution boards (EG000023) / Empty cabinet (EC000058)

Electric engineering, automation, process control engineering / Electrical installation, device / Electrical distribution system (including small distribution board) / Empty cabinet (small distribution board) (ecl@ss13-27-14-24-08 [ACN385016])

Mounting method			Surface mounted
Type of covering			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
Inner 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
Housing material			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