



079266
KST34-200

Overview

Specifications

Resources



Delivery program

Technical data

Design verification as
per IEC/EN 61439

Technical data ETIM 7.0

Dimensions

DELIVERY PROGRAM

Product range
xEnergy Safety Qi

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
250 mm

Height
375 mm

Depth
225 mm

Mounting depth with mounting plate
200 mm

Mounting depth for mounting rail 7.5 mm height
192.5 mm

Mounting depth for mounting rail 15 mm height
185 mm

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

Enclosure depth



Cable entry
2 x 14 - 54

TECHNICAL DATA

General

Standards
EN 62208
EN 61439-2

Ambient temperature
-40 - +80 °C

Ambient temperature
Mean value over 24 hours
35 °C

Ambient temperature
Limit values
Ambient temperature limit value min.
-5 °C

Ambient temperature
Limit values
Ambient air temperature, limit values max.
40 °C

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

Standards

Low-voltage fuses

IEC/EN 60269, VDE 0636

Standards

Type test

VDE 0660 Part 500, IEC/EN 60439-1

Standards

Creepage and clearance distances

III/3 to IEC/EN 60439-1

Standards

Flammability characteristics - Glow rod test

VDE 0304 Part 3 level IIb, level IIb to IEC 60707

Standards

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

35 °C

Operating and ambient conditions to VDE 0660 Part 500

Ambient temperature

Limit values

-5...40 °C

Operating and ambient conditions to VDE 0660 Part 500

Indoor installation
Relative humidity
90 % (at 20°C)
50% (at 40°C)

Operating and ambient conditions to VDE 0660 Part 500
Indoor installation
Altitude
Max. 2000 m

Operating and ambient conditions to VDE 0660 Part 500
Protection type
IP65 (Enclosure)
IP65 (KST cable entries from below)
IP64 (KST cable entries from above)
IP00 (Cable entry open)

Operating and ambient conditions to VDE 0660 Part 500
Mounting grid
25 (DIN 43660) mm

Operating and ambient conditions to VDE 0660 Part 500
Surface finish
Galvanized
Passivated

Material characteristics

Surface finish
Galvanized
Passivated

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_v]
23 W

Heat dissipation, at an ambient temperature of

35°C, delta T: 20 degrees in top of the enclosure,
calculated as per IEC 60890
Starting enclosure for wall mounting [P_V]
21 W

Heat dissipation, at an ambient temperature of
35°C, delta T: 20 degrees in top of the enclosure,
calculated as per IEC 60890
Middle enclosure for wall mounting [P_V]
19 W

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_V]
47 W

Heat dissipation, at an ambient temperature of
35°C, delta T: 35 degrees in top of the enclosure,
calculated as per IEC 60890
Starting enclosure for wall mounting [P_V]
43 W

Heat dissipation, at an ambient temperature of
35°C, delta T: 35 degrees in top of the enclosure,
calculated as per IEC 60890
Middle enclosure for wall mounting [P_V]
39 W

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 Strength of materials and parts
10.2.3.1 Verification of thermal stability of
enclosures
Meets the product standard's requirements.

10.2 Strength of materials and parts
10.2.3.2 Verification of resistance of insulating
materials to normal heat
Meets the product standard's requirements.

10.2 Strength of materials and parts
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 Strength of materials and parts
10.2.4 Resistance to ultra-violet (UV) radiation
Not relevant to indoor installations.

10.2 Strength of materials and parts
10.2.5 Lifting
10 kg per enclosure with support frame and lifting aid met; assembled and secured as per the latest applicable instruction leaflet.

10.2 Strength of materials and parts
10.2.6 Mechanical impact
IK10

10.2 Strength of materials and parts
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 Insulation properties
10.9.3 Impulse withstand voltage
8 kV

10.9 Insulation properties

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 7.0

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)
(ec1@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)
1600 A

Height
375 mm

Width
250 mm

Depth
225 mm

Built-in depth
200 mm

Internal depth
200 mm

Plate thickness cabinet
6 mm

Plate thickness door/cover
6 mm

Colour
Grey

RAL-number
7035

Number of modules
1

Number of rows
0

Width in number of modular spacings
9

Number of openings for flange plates
3

Extension possible
Yes

Number of conduit inlets
60

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

DIMENSIONS



