174197
IKA-1/12-ST

DELIVERY PROGRAM

Basic function
Basic device

Product function
Installation distribution boards

Product range
IKA professional DBO

Design
Surface mounted

Installation site
Indoor

Type of installation
Surface mounting

Door/Flap
Transparent

Degree of Protection
IP65

Colour
Grey

Module rack
Single-rail

Shroud for protection against accidental contact
Plastic

Rows [Count]
1

Module units per row
12

Description
IP65
Protection Class II
Plastic enclosure gray (RAL 7035)

Cable entries
Metric cable entries on top and bottom, side, back plate

PE and N terminals design
Screw terminals

PE and N terminals [Number x cross-sectional area]
PE: 6 x (2.5 - 6) + 6 x (4 - 10) + 1 x (10 - 25) + 1 x (16 - 35)
N: 6 x (2.5 - 6) + 6 x (4 - 10) + 1 x (10 - 25) + 1 x (16 - 35) mm^2

Equipment supplied
Basic device
Device support rails
Neutral-/protective conductor terminal
Locking screws can be sealed
Sealing caps
Current circuit designation
Reserve section cover 6 space units

TECHNICAL DATA

General

Standards
EN 62208, IEC/EN 60670-24

RoHS (in accordance with Directive 2002/95/EC of the European Parliament and Council)
conform

Ambient temperature
-25 - +40 °C

Degree of Protection
IP65

Protection class
II (totally insulated)

Rated operational voltage [Ue]
415 V AC

Rated frequency [f]
50 Hz

Insulation voltage
AC
1000 V AC

Insulation voltage
DC
1500 V DC

Material characteristics

Material
ABS (plastic)

Colour
Gray (RAL 7035)

Material properties

Mechanical
Impact resistance
IK08

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]
20 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]
40 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
650 °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
Does not apply to enclosures without lifting aids.

10.2 Strength of materials and parts
10.2.6 Mechanical impact
IK08

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 V AC

10.9 Insulation properties
10.9.3 Impulse withstand voltage
3.3 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) / Small distribution board (EC000214)

Electric engineering, automation, process control engineering / Electrical installation, device / Electrical distribution system (incl. small distribution board) / Small distribution board (ecl@ss10.0.1-27-14-24-09 [ACN387011])

Mounting method
Surface mounted (plaster)

Number of rows
1

Width in number of modular spacings
12

Type of cover
Door

Cover model
With notch

Transparent cover/door
Yes

Material housing
Plastic

Height
246 mm

Width
310 mm

Depth
145 mm

Built-in depth
70 mm

Internal depth
60 mm

DIN-rail
Yes

With mounting plate
No

Extension possible
Yes

EMC-version
No

Colour
Grey

RAL-number
7035

Degree of protection (IP)
IP65

With lock
No

Type of closure
Other

DIMENSIONS