114580
XVTL-MP/BX/IC-4/3/20

DELIVERY PROGRAM

Product range
Control centres XVTL

Basic function
Combination enclosures

Single unit/Complete unit
Complete housing

Degree of Protection
IP55 (with door and flange)

Description
Fragment basic equipment
Including open cable entries top, prepared for F3A flange

Material
Sheet steel 2 mm

Surface finish

Polyester powder coating
Phosphated
RAL 7035, light grey

Colour
light gray (RAL 7035)

Information about equipment supplied
including frame, sheet steel doors, back plate,
bottom and top plate, mounting plate, lifting eyelets,
cylinder lock and branding strip
Including support frame for the IVS mounting units
including insulating surround and mounted
insulated support bracket
Without side walls

Width
425 mm

Height
2000 mm

Depth
300 mm

TECHNICAL DATA

General

Standards
IEC/EN 60439-1
IEC/EN 60439-3
IEC/EN 62208

Protection class
1

40 °C (intermittent maximum value)
35 °C (maximum value, 24 h average)
-5 °C (minimum value)

Installation conditions
Indoor installation

Degree of Protection
IP55 (with door and flange)

Relative humidity
50% (at 40°C)

Power loss
Max. admissible heat dissipation, ambient air temperature +35 °C
247 W

Weight
80 kg

Material characteristics

Material
Sheet steel 2 mm

Surface treatment
Painting, phosphated and polyester powder coating

Surface finish
Polyester powder coating
Phosphated
RAL 7035, light grey

Colour
light gray (RAL 7035)

Material characteristics
Type Door
Outside-supported doors with hidden hinges
Can be removed from 90°

Material characteristics
door opening angle
120° (single mounting)
120° (combination mounting)

Material characteristics
Door interlock
Folding handle with espagnolette lock
Can be fitted with profile cylinder
Three-point interlock

Material properties

Mechanical
Cable entry
Various covers allow cable entry from above and/or below

Electrical
Rated insulation voltage [U_i]
690 V

Electrical
Rated operational voltage [U_e]
415 V

Electrical
Rated frequency [f]
50 (AC) Hz

Electrical
Rated impulse withstand voltage [U_{imp}]
6 kV

Electrical
Rated operational current [I_e]
2500 A

Electrical
Overvoltage category/pollution degree
IV/3

Electrical
Rated short-time withstand current (t=1s) [I_{cw}]
65 kA

Electrical
Rated peak withstand current [I_{pk}]
143 kA

Electrical
Max. admissible heat dissipation, ambient air temperature +35 °C
247 W

Electrical
Earthings
Screw M10: 50 x 106 A^2s (base frame, main earthing)

Taptite screw M6: 3.9 × 106 A^2s (enclosure side plate, back plate)
M6 weld stud: 50 × 106 A^2s (door)

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, free-standing [P_V]
117 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, free-standing [P_V]
107 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, free-standing [P_V]
99 W

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]
104 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]
91 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]
77 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, free-standing [P_V]
234 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, free-standing [P_V]
214 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, free-standing [P_V]
198 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]
208 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]
183 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]
155 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
Not applicable.

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
Not applicable.

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
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
IP55

10.4 Clearances and creepage distances
Is the panel builder's responsibility.

10.5 Protection against electric shock
< 0.1 Ω; meets the product standard's requirements.

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 = 690 V AC

10.9 Insulation properties
10.9.3 Impulse withstand voltage
6 kV

10.9 Insulation properties
10.9.4 Testing of enclosures made of insulating material
Does not apply to metal enclosures.

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

Cabinet enclosures (EG000011) / Enclosure/switchgear cabinet (empty) (EC000261)

Electric engineering, automation, process control engineering / Electrical cabinet, housing, rack / Electrical cabinet (empty) / Electrical cabinet (ecl@ss10.0.1-27-18-01-01 [AGZ056016])

Width
425 mm

Height
2000 mm

Depth
300 mm

Material
Steel

Material quality
Other

Surface finishing
Powder coating

Colour
Grey

RAL-number
7035

With mounting plate
Yes

Mounting plate depth-adjustable
No

Number of locks
1

Floor installation possible
Yes

Wall fastening possible
Yes

Wall build in
No

Pole fastening
No

Tackable
Yes

Number of doors
1

Suitable for metrical mounting
Yes

Suitable for outdoor set-up
No

Pitched roof
No

EMC-version
Yes

With glazed door
No

With ventilation door
No

With backside door
No

Impact strength
IK10

Degree of protection (IP)
IP55

Degree of protection (NEMA)

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