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XVTL-MP/BX/IC-8/5/18 - Distribution cabinet, HxWxD=1800x800x500mm, IP55



114570 XVTL-MP/BX/IC-8/5/18

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114570 XVTL-MP/BX/IC-8/5/18

Distribution cabinet, HxWxD=1800x800x500mm, IP55

EL-Nummer (Norway)

2459985

Frame, rear panel, door, roof closed, mounting plate 3 mm, multi-part bottom plates, lifting eyelets, double-bit lock

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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
800 mm
Height
1800 mm
Depth
500 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

527 W

Weight

101 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_o]

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

ElectricalMax. admissible heat dissipation, ambient air temperature +35 °C
527 W
ElectricalEarthings
Screw M10: 50 x 106 A²s (base frame, main earthing)
Tapite screw M6: 3.9 x 106 A²s (enclosure side plate, back plate)
M6 weld stud: 50 x 106 A²s (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 60890Individual enclosure, free-standing [P_V]

249 W

Heat dissipation, at an ambient temperature of 35°C, delta T: 20 degrees in top of the enclosure, calculated as per IEC 60890Starting enclosure, free-standing [P_V]

236 W

Heat dissipation, at an ambient temperature of 35°C, delta T: 20 degrees in top of the enclosure, calculated as per IEC 60890Middle enclosure, free-standing [P_V]

224 W

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

230 W

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

221 W

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

223 W

Heat dissipation, at an ambient temperature of 35°C, delta T: 35 degrees in top of the enclosure, calculated as per IEC 60890Individual enclosure, free-standing [P_V]

500 W

Heat dissipation, at an ambient temperature of 35°C, delta T: 35 degrees in top of the enclosure, calculated as per IEC 60890Starting enclosure, free-standing [P_V]

473 W

Heat dissipation, at an ambient temperature of 35°C, delta T: 35 degrees in top of the enclosure, calculated as per IEC 60890Middle enclosure, free-standing [P_V]

450 W

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

462 W

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

443 W

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

447 W

IEC/EN 61439 design verification

10.2 Strength of materials and parts10.2.2 Corrosion resistance

Meets the product standard's requirements.

10.2 Strength of materials and parts10.2.3.1 Verification of thermal stability of enclosures

Meets the product standard's requirements.

10.2 Strength of materials and parts10.2.3.2 Verification of resistance of insulating materials to normal heat

Not applicable.

10.2 Strength of materials and parts10.2.3.3 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric effects

Not applicable.

10.2 Strength of materials and parts10.2.4 Resistance to ultra-violet (UV) radiation

Not relevant to indoor installations.

10.2 Strength of materials and parts10.2.5 Lifting

Met; assembled and secured as per the latest applicable instruction leaflet.

10.2 Strength of materials and parts10.2.6 Mechanical impact

IK10

10.2 Strength of materials and parts10.2.7 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

$U_i = 690 \text{ V AC}$

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) (EC0000261)

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

800 mm

Height

1800 mm

Depth

500 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)

Product photo



[wa_vt28613](#)

Photo

Add-on board

Manual

- [DA-MN-170914860](#)

Asset

(PDF, de)

Declaration of Conformity

EU

- [DA-DC-03_xEnergy_Light_XVTL-_200416](#)

Asset

(PDF)

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