DATASHEET - XVTL-MP/BX/IC-10/6/20

Distribution cabinet, HxWxD=2000x1000x600mm, IP55

Part no. XVTL-MP/BX/IC-10/6/20
Catalog No. 114598

Powering Business Worldwide

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		mm	1000
Height		mm	2000
Depth		mm	600

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		W	687
Weight		kg	136

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° From width 1000 mm two doors
door opening angle			120° (single mounting) 120° (combination mounting)
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	V	690
Rated operational voltage	U_e	V	415
Rated frequency	f	Hz	50 (AC)
Rated impulse withstand voltage	U_{imp}	kV	6
Rated operational current	I_e	A	2500
Overvoltage category/pollution degree			IV/3
Rated short-time withstand current (t=1s)	I_{cw}	kA	65
Rated peak withstand current	I_{pk}	kA	143
Max. admissible heat dissipation, ambient air temperature +35 °C		W	687
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	W	329
Starting enclosure, free-standing	P_V	W	318
Middle enclosure, free-standing	P_V	W	309
Individual enclosure for wall mounting	P_V	W	314
Starting enclosure for wall mounting	P_V	W	308
Middle enclosure for wall mounting	P_V	W	292
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	W	659
Starting enclosure, free-standing	P_V	W	639
Middle enclosure, free-standing	P_V	W	620
Individual enclosure for wall mounting	P_V	W	630
Starting enclosure for wall mounting	P_V	W	618
Middle enclosure for wall mounting	P_V	W	585
IEC/EN 61439 design verification			
10.2 Strength of materials and parts			
10.2.2 Corrosion resistance			Meets the product standard's requirements.
10.2.3.1 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			Not applicable.
10.2.3.3 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric effects			Not applicable.
10.2.4 Resistance to ultra-violet (UV) radiation			Not relevant to indoor installations.
10.2.5 Lifting			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			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
10.9.3 Impulse withstand voltage			6 kV
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		mm	1000
Height		mm	2000
Depth		mm	600
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			2
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)			