



Distribution cabinet, HxWxD=1800x1200x600mm, IP55, bayable

Part no. XVTL-MP/BX/IC-12/6/18
Article no. 114579

Delivery programme

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			RAL 7035, light grey
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	1200
Height		mm	1800
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	737
Weight		kg	154

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			RAL 7035, light grey
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	CSA	2500	
Overtoltage 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	737	
Earthings				Screw M10: 50 x 106 A ² s (base frame, main earthing) Taptite screw M6: 3.9 x 106 A ² s (enclosure side plate, back plate) M6 weld stud: 50 x 106 A ² s (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, calculated as per IEC 60890				
Individual enclosure, free-standing	P_V	CO	352	
Starting enclosure, free-standing	P_V	CO	343	
Middle enclosure, free-standing	P_V	CO	335	
Individual enclosure for wall mounting	P_V	CO	335	
Starting enclosure for wall mounting	P_V	CO	330	
Middle enclosure for wall mounting	P_V	CO	324	
Heat dissipation, at an ambient temperature of 35°C, delta T: 35 degrees, calculated as per IEC 60890				
Individual enclosure, free-standing	P_V	CO	707	
Starting enclosure, free-standing	P_V	CO	688	
Middle enclosure, free-standing	P_V	CO	671	
Individual enclosure for wall mounting	P_V	CO	671	
Starting enclosure for wall mounting	P_V	CO	662	
Middle enclosure for wall mounting	P_V	CO	650	
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 6.0

Cabinet enclosures (EG000011) / Enclosure/switchgear cabinet (empty) (EC000261)		
Electric engineering, automation, process control engineering / Electrical cabinet, housing, rack / Electrical cabinet (empty) / Electrical cabinet (ecl@ss8.1-27-18-01-01 [AGZ056013])		
Width	mm	1200
Height	mm	1800
Depth	mm	600
Material		Steel
Type of surface		With 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
Impact strength		IK10
Degree of protection (IP)		-
With glazed door		No
With ventilation door		No
With backside door		No