Distribution cabinet, HxWxD=1800x1200x500mm, IP55, bayable

Part no.	XVTL-MP/BX/IC-12/5/18
Article no.	114578

EAT·N
Powering Business Worldwide™

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	500

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	685
Weight	kg	149

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
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	685
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, calculated as per IEC 60890			
Individual enclosure, free-standing	P_V	CO	328
Starting enclosure, free-standing	P_V	CO	321
Middle enclosure, free-standing	P_V	CO	316
Individual enclosure for wall mounting	P_V	CO	312
Starting enclosure for wall mounting	P_V	CO	306
Middle enclosure for wall mounting	P_V	CO	294
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	657
Starting enclosure, free-standing	P_V	CO	645
Middle enclosure, free-standing	P_V	CO	634
Individual enclosure for wall mounting	P_V	CO	626
Starting enclosure for wall mounting	P_V	CO	615
Middle enclosure for wall mounting	P_V	CO	590
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	500
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