



Distribution cabinet, HxWxD=1600x1000x400mm, IP55, bayable

Part no. XVTL-MP/BX/IC-10/4/16
Article no. 114559

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	1000
Height		mm	1600
Depth		mm	400

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	525
Weight		kg	119

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	525	
Earthings				Screw M10: 50 × 106 A ² s (base frame, main earthing) Taptite screw M6: 3.9 × 106 A ² s (enclosure side plate, back plate) M6 weld stud: 50 × 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	250	
Starting enclosure, free-standing	P _V	CO	241	
Middle enclosure, free-standing	P _V	CO	234	
Individual enclosure for wall mounting	P _V	CO	229	
Starting enclosure for wall mounting	P _V	CO	224	
Middle enclosure for wall mounting	P _V	CO	227	
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	501	
Starting enclosure, free-standing	P _V	CO	484	
Middle enclosure, free-standing	P _V	CO	469	
Individual enclosure for wall mounting	P _V	CO	459	
Starting enclosure for wall mounting	P _V	CO	450	
Middle enclosure for wall mounting	P _V	CO	455	
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	1000
Height	mm	1600
Depth	mm	400
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