

### Distribution cabinet, HxWxD=1800x1200x500mm, IP55, bayable

Powering Business Worldwide™

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

## **Delivery programme**

Don'tory programmo		
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 $^{\circ}\text{C}$	W	685
Weight	kg	149
Material characteristics		

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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	Ui	V	690
Rated operational voltage	U <sub>e</sub>	V	415
Rated frequency	f	Hz	50 (AC)
Rated impulse withstand voltage	$U_{imp}$	kV	6
Rated operational current	Ie	CSA	2500
Overvoltage category/pollution degree			IV/3
Rated short-time withstand current (t=1s)	I <sub>cw</sub>	kA	65
Rated peak withstand current	$I_{pk}$	kA	143
Max. admissible heat dissipation, ambient air temperature +35 $^{\circ}\text{C}$		W	685
Earthings			Screw M10: $50 \times 106 \text{ A}^2 \text{s}$ (base frame, main earthing) Taptite screw M6: $3.9 \times 106 \text{ A}^2 \text{s}$ (enclosure side plate, back plate) M6 weld stud: $50 \times 106 \text{ A}^2 \text{s}$ (door)

# Design verification as per IEC/EN 61439

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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 $\Omega;$ 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 <sub>i</sub> = 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**

	Toomitout data Ethii v.v			
Avidith         mm         1200           Height         mm         1800           Depth         mm         500           Waterial         Steel         Steel           Vipe of surface         Vith powder coating           Colour         Top         Top           ANI-number         7035         Top           With mounting plate         No         No           Wounding plate depth-adjustable         No         Yes           Wounding plate depth-adjustable         Yes         No           Wall fastening possible         Yes         No           Wall fastening possible         Yes         No           Wall fastening of doors         Yes         No           Valuable for metrical mounting         Yes         Yes           Wall stable for metrical mounting         Yes         Yes           Wittable for metrical mounting<	Cabinet enclosures (EG000011) / Enclosure/switchgear cabinet (empty) (EC000261)			
delight         mm         1800           Depth         mm         500           Material         Steel           Material         With powder coating           Jobor         Grey           SAL-number         7035           With mounting plate         Yes           Wound on plate depth-adjustable         Yes           Wound on installation possible         Yes           Wall fastening possible         Yes           Wall fastening possible         Yes           Vall build in         Yes           Pole fastening         Yes           Value of doors         Yes           Suitable for metrical mounting         Yes           Suitable for metrical mounting         Yes           Policy or coundors set-up         No           Policy or counting         Yes           Policy or counting         Yes <t< th=""><th>Electric engineering, automation, process control engineering / Electrical cabinet, l</th><th>housing, rack / Electr</th><th>rical cabinet (empty) / Electrical cabinet (ecl@ss8.1-27-18-01-01 [AGZ056013])</th></t<>	Electric engineering, automation, process control engineering / Electrical cabinet, l	housing, rack / Electr	rical cabinet (empty) / Electrical cabinet (ecl@ss8.1-27-18-01-01 [AGZ056013])	
Depth         mm         500           Material         Steel           With powder coating         With powder coating           Colour         Grey           SAL-number         7035           With mounting plate         Yes           Wounding plate depth-adjustable         Yes           Unumber of locks         Yes           Floor installation possible         Yes           Wall flastening possible         Yes           Vall build in         No           Pole fastening         Yes           Polic fasten	Width	mm	1200	
Adartal         Steel           Open of surface         With powder coating           Colour         Grey           SAL-number         7035           With mounting plate         Yes           Wounting plate depth-adjustable         No           Number of locks         1           Floor installation possible         Yes           Wall fastening possible         Yes           Vall flastening possible         No           Pole fastening         No           Pole fastening         Yes           Vall build in         No           Vall flastening possible         Yes           Vall flastening possible         Yes           Vall flastening possible         No           Vall flastening possible         No           Vall flastening possible         Yes           Vall flastening possible         No           Vall flastening possible         No           Vall flastening possible         No           Vall flastening possible         Yes           Vall flastening possible         Yes           Vall flastening possible         No           Vall flastening possible         No           Vall flastening possible         No	Height	mm	1800	
All-number 7005 All-number 7005 All-number 7005 All-number 7005 All-number 7005 All-number 7005 All-number 8000000000000000000000000000000000000	Depth	mm	500	
Colour         Grey           ALL-number         7035           ALL-number         Yes           Mounting plate depth-adjustable         No           Number of locks         1           Floor installation possible         Yes           Wall fastening possible         Yes           Vall fastening         No           Pole fastening         No           Floor installation possible         Yes           Vall build in         No           Pole fastening         No           Floor fastening         Yes           Number of doors         2           Suitable for metrical mounting         Yes           Suitable for outdoor set-up         No           Picked roof         No           EMC-version         Yes           Impact strength         IK10           Degree of protection (IP)         -           With glazed door         No           With yertilation door         No	Material		Steel	
AL - number         7035           With mounting plate         Yes           Mounting plate depth-adjustable         No           Number of locks         1           Cloor installation possible         Yes           Wall fastening possible         Yes           Wall build in         No           Pole fastening         No           Floe fastening         Yes           Number of doors         2           Suitable for metrical mounting         Yes           Suitable for outdoor set-up         No           Pictched roof         No           MC-version         Yes           MC-version         Yes           MC-version (IP)         Yes           With glazed door         IK10           With yertilation door         No	Type of surface		With powder coating	
With mounting plate  With mounting plate depth-adjustable Number of locks Cloor installation possible Nall fastening possible Nall fastening possible Nall build in No Pole fastening Clore installation possible Nall build in No Pole fastening No Suitable for metrical mounting Suitable for metrical mounting Suitable for outdoor set-up No Pitched roof EMC-version Michael Suitable for outdoor set-up No Degree of protection (IP) No	Colour		Grey	
Mounting plate depth-adjustable Number of locks Incor installation possible Nell fastening possible Nell fastening possible Nell build in No Pole fastening Incorder	RAL-number		7035	
Number of locks         1           Cloor installation possible         Yes           Wall fastening possible         Yes           Wall build in         No           Pole fastening         No           Fackable         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)         No           With glazed door         No           With ventilation door         No	With mounting plate		Yes	
Floor installation possible  Wall fastening possible  Wall build in  Pole fastening  Fackable  Number of doors  Suitable for metrical mounting  Suitable for metrical mounting  Poletiched roof  EMC-version  Impact strength  Degree of protection (IP)  With glazed door  With ventilation door  With ventilation door	Mounting plate depth-adjustable		No	
Wall fastening possible     Yes       Wall build in     No       Pole fastening     No       Fackable     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 vertilation door     No	Number of locks		1	
Nall build in No Pole fastening No Fackable Yes Number of doors 2 2 Suitable for metrical mounting Yes Suitable for outdoor set-up No Pitched roof No Pitched Roof No No Pitched Roof No Pitche	Floor installation possible		Yes	
Pole fastening Pole for metrical mounting Pole fastening Pole f	Wall fastening possible		Yes	
Fackable Fackable Fackable Fackable Formatical mounting Formatical	Wall build in		No	
Number of doors Suitable for metrical mounting Suitable for outdoor set-up Pitched roof EMC-version Mpact strength Degree of protection (IP) With glazed door Mith ventilation door  2  Yes  1  No  2  No  No  No  No  No  No  No  No	Pole fastening		No	
Suitable for metrical mounting Suitable for outdoor set-up No Pitched roof No EMC-version Yes mpact strength Degree of protection (IP) Nith glazed door No Nith ventilation door	Tackable		Yes	
Suitable for outdoor set-up  No Pitched roof No EMC-version Yes mpact strength Degree of protection (IP)  No With ventilation door  No No	Number of doors		2	
Pitched roof  Mo  MC-version  Mpact strength  Degree of protection (IP)  With glazed door  With ventilation door  No  No  No  No  No  No  No  No  No	Suitable for metrical mounting		Yes	
EMC-version Yes  mpact strength IK10  Degree of protection (IP)	Suitable for outdoor set-up		No	
mpact strength Degree of protection (IP)	Pitched roof		No	
Degree of protection (IP)  Nith glazed door No  Nith ventilation door No	EMC-version		Yes	
With glazed door No With ventilation door No	Impact strength		IK10	
Nith ventilation door No	Degree of protection (IP)		-	
	With glazed door		No	
With backside door No	With ventilation door		No	
	With backside door		No	