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



Delivery program

Basic function Basic function Combination enclosures Complete housing Degree of Protection Description Description Description Material Surface finish Colour Colour Complete housing Fragment basic equipment Including open cable entries top, prepared for F3A flange Polyester powder coating Phosphated RAL 7035, light grey Colour Including frame, sheet steel doors, back plate, bottom and top plate, mounting plate, lifting eyelets, cylinder lock and branding strip Including surport frame for the IVS mounting units including insulating surround and mounted insulated support bracket Without side walls Width mm 1000	zomon, program		
Complete housing Degree of Protection Description Desc	Product range		Control centres XVTL
Degree of Protection Description Descripti	Basic function		Combination enclosures
Page of the property of the pr	Single unit/Complete unit		Complete housing
Including open cable entries top, prepared for F3A flange Sheet steel 2 mm Polyester powder coating Phosphated RAL 7035, light grey Colour 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	Degree of Protection		IP55 (with door and flange)
Surface finish Polyester powder coating Phosphated RAL 7035, light grey Colour light gray (RAL 7035) 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	Description		
Phosphated RAL 7035, light grey Colour 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 Including support frame for the IVS mounting units including insulating surround and mounted insulated support bracket without side walls	Material		Sheet steel 2 mm
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	Surface finish		Phosphated
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	Colour		light gray (RAL 7035)
	Information about equipment supplied		plate, lifting eyelets, cylinder lock and branding strip Including support frame for the IVS mounting units including insulating surround and mounted insulated support bracket
leight mm 2000	Width	mm	1000
	Height	mm	2000
Depth mm 600	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 $^{\circ}\text{C}$	W	687
Weight	kg	136
Material characteristics		
Material		Sheet steel 2 mm

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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		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

Mechanical

Material properties

Cable entry			Various covers allow cable entry from above and/or below
Electrical			
Rated insulation voltage	Ui	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	Ie	Α	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 $^{\circ}\text{C}$		W	687
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

Heat dissipation, at an ambient temperature of SPC, delta 1:28 degrees in log of the enclosure, recaculated as par Individual enclosure, free-standing Individual enclosure, free-standing Middle enclosure for wall mounting Pv W 389 Starting enclosure for wall mounting Pv W 388 Starting enclosure for wall mounting Pv W 389 Starting enclosure for wall mounting Pv W 389 Heat dissipation, at an ambient temperature of 35°C, delta 1:33 degrees in top of the enclosure, calculated as per ICE GR89 Individual enclosure, free-standing Pv W 589 Starting enclosure, free-standing Pv W 689 Starting enclosure, free-standing Pv W 689 Starting enclosure, free-standing Pv W 680 Starting enclosure for wall mounting Pv W 680 Modes enclosure for wall mounting Pv W 680 Starting enclosure for wall mounting Pv W 680 Starting enclosure for wall mounting Pv W 680 Starting enclosure for wall mounting Pv W 680 Modes the product standard's requirements. 10.2.2 Strength of materials and parts 10.2.2 Feed of materials and parts	Technical data for design verification			
Starting enclosure, free-standing Pv W 399 Middle enclosure for well mounting Pv W 399 Starting enclosure for well mounting Pv W 314 Starting enclosure for well mounting Pv W 398 Middle enclosure for well mounting Pv W 398 Middle enclosure for well mounting Pv W 398 Heat dissipation, at an ambient temperature of 35°C, defat T:55 degrees in top of the enclosure, calculated as per IEC 69990 Individual enclosure, free-standing Pv W 539 Starting enclosure, free-standing Pv W 539 Middle enclosure, free-standing Pv W 539 Middle enclosure, free-standing Pv W 539 Middle enclosure for well mounting Pv W 539 Individual enclosure for well mounting Pv W 530 Starting enclosure for well mounting Pv W 539 Individual enclosure for well mounting Pv W 539 Italian enclosure for well mounting enclosure for well mounting for enclosure for well mounting enclosure for well mounting enclosure for well mounting for enclosure for well mounting enclosure for well mounting for enclosure for enclo				
Middle enclosure for wall mounting By W 314 Starting enclosure for wall mounting Py W 328 Middle enclosure for wall mounting Py 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 Py W 639 Starting enclosure, free-standing Py W 639 Middle enclosure, free-standing Py W 630 Starting enclosure for wall mounting Py W 630 Middle enclosure for wall mounting Py W 630 Starting enclosure for wall mounting Py W 630 Meta the product standard's requirements. Meets the product standard's requirements. Not applicable. Not applicable. Not applicable. Not applicable. Not relevant to indoor installations. Mut assembled and secured as per the latest applicable instruction leaflet. IND 21 Inscriptions 10.23 Evergination of ASSEMBLES 10.3 Degree of protection of ASSEMBLES 10.3 Degree of protection of ASSEMBLES 10.4 Clearances and creepage distances 10.5 Protection against electric shock 10.6 Incorporation of switching devices and components 10.7 Internal electrical circuits and connections 10.8 Connections for external conductors 10.9 Insulation properties 10.9 Power-frequency electric strength U ₁ = 880 V AC	Individual enclosure, free-standing	P_{V}	W	329
Individual enclosure for wall mounting Addle enclosure for wall mounting Addle enclosure for wall mounting Addle enclosure for wall mounting Heat dissipation, at an ambient temperature of 35°C, delta 1: 35 degrees in top of the enclosure, calculated as per 156 0890 Individual enclosure, free-standing Py W 559 Starting enclosure, free-standing Py W 620 Individual enclosure for wall mounting Py W 620 Individual enclosure for wall mounting Py W 618 Starting enclosure for wall mounting Py W 618 Middle enclosure for wall mounting Py W 585 IEC/EN 61439 design verification 10.2 Strength of materials and parts 10.2.2 Corrosion resistance 10.2.3 Verification of tresistance of insulating materials to normal heat and fire due to internal electric effects 10.2.3 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric effects 10.2.1 Verification of ASSEMBUES 10.2 Beneficial impact 10.2 Beneficial impact 10.2 Protection against electric strock 10.3 Degree of protection of ASSEMBUES 10.4 Clearances and creepage distances 10.5 Protection against electric strock 10.6 Connections for external conductors 10.7 Internal electrical circuits and connections 10.9 Inscription 10.9 Inscription of external conductors 10.9 Inscription of external conductors 10.9 Inscription	Starting enclosure, free-standing	P_V	W	318
Starting enclosure for wall mounting Middle enclosure for wall mounting Heat dissipation, at an ambient temperature of 35°C, delta Ti 35 degrees in top of the enclosure, calculated as per IEC 0890 Individual enclosure, free-standing Pv W 639 Starting enclosure, free-standing Pv W 639 Middle enclosure, free-standing Pv W 630 Starting enclosure for wall mounting Pv W 638 EC/EN 61439 design verification 10.2 Strength of materials and parts 10.2.2 Corrosion resistance 10.2.3 Verification of thermal stability of enclosures 10.2.3 Verification of resistance of insulating materials to enormal heat and fire due to internal electric effects 10.2.4 Strength of materials and parts 10.2.5 Lifting 10.2.5 Lifting 10.2.6 Mechanical impact 10.2.7 Inscriptions 10.3 Degree of protection of ASSEMBLIES 10.4 Clearances and creepage distances 10.5 Protection against electric shock 10.6 Lifting Met assembled and secured as per the latest applicable instruction leaflet. 10.7 Internal electric shock 10.8 Connections for external conductors 10.9 Inscriptions 10.9 Protection against electric shock 10.8 Connections for external conductors 10.9 Inscriptions 10.9 Protection against electric shock 10.8 Connections for external conductors 10.9 Prover-frequency electric strength 10.9 Prover-frequency electric strength	Middle enclosure, free-standing	P_V	W	309
Middle enclosure for wall mounting Heat dissipation, at an ambient temperature of 35°C, delta T-35 degrees in top of the enclosure, calculated as per IEC 60950 Individual enclosure, free-standing Starting enclosure, free-standing Pv W 639 Middle enclosure, free-standing Pv W 630 Individual enclosure for wall mounting Pv W 630 Starting enclosure for wall mounting Pv W 630 Starting enclosure for wall mounting Pv W 655 Individual enclosure for wall mounting Pv W 656 Starting enclosure for wall mounting Pv W 658 IEC/EN 61439 design verification 10.2 Strength of materials and parts 10.2.2 Verreign of resistance 10.2.3 Verification of resistance of insulating materials to normal heat and fire due to internal electric effects 10.2.3 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric effects 10.2.5 Lifting 10.2.6 Mechanical impact 10.2.5 Lifting 10.2.6 Mechanical impact 10.2.7 Internal electric effects 10.3 Degree of protection of ASSEMBLIES 10.4 Clearances and creepage distances 10.5 Internal electric shock 10.5 Internal electrical circuits and connections 10.6 Incorporation of switching devices and components 10.7 Internal electrical circuits and connections 10.8 Connections for external conductors 10.9 Insulation properties 10.9 Proventing and partics 10.9 Insulation properties 10.9 Proventing and partic devices trength 10.9 Insulation properties 10.9 Proventing against electric shock 10.9 Insulation properties 10.9 Proventing and particle strength 10.9 Insulation properties 10.9 Proventing and particle strength 10.9 Proventing and particle strength 10.9 Proventing and partic	Individual enclosure for wall mounting	P_V	W	314
Heat dissipation, at an ambient temperature of 35°C, delta T: 35 degrees in top of the enclosure, calculated as per IEC 6090°C. Individual enclosure, free-standing Py W 639 Starting enclosure, free-standing Py W 639 Middle enclosure free-standing Py W 630 Individual enclosure for wall mounting Py W 630 Starting enclosure for wall mounting Py W 630 Starting enclosure for wall mounting Py W 630 Starting enclosure for wall mounting Py W 638 IEC/EN 61439 design verification 10.2 Strength of materials and parts 10.2.2 Corrosion resistance 10.2.3.1 Verification of termal stability of enclosures 10.2.3.2 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric effects 10.2.4 Resistance to ultra-violet (UV) radiation 10.2 Strength of protection of ASSEMBLIES 10.2.5 Inscriptions 10.3.0 Degree of protection of ASSEMBLIES 10.4 Clearances and creepage distances 10.5 Inscriptions 10.5 Inscriptions 10.6 Incorporation of sviriching devices and components 10.7 Internal electric elicricuits and connections 10.8 Insulation properties 10.9 Py W 639 Meets the product standard's requirements. Not applicable. Not relevant to indoor installations. Not relevant to indoor installations. Not applicable instruction leaflet. IK10 Meets the product standard's requirements. IK10 Meets the product standard's requirements. IS the panel builder's responsibility. Is the panel builder's responsibility. Is the panel builder's responsibility. 10.8 Connections for external conductors Is the panel builder's responsibility. Is the panel builder's responsibility.	Starting enclosure for wall mounting	P_V	W	308
Individual enclosure, free-standing Py W 659 Starting enclosure, free-standing Py W 639 Middle enclosure, free-standing Py W 620 Individual enclosure for wall mounting Py W 630 Starting enclosure for wall mounting Py W 630 Starting enclosure for wall mounting Py W 630 Starting enclosure for wall mounting Py W 658 IEC/EN 61439 design verification 10.2 Strength of materials and parts 10.2.2 Corrosion resistance 10.2.3 Verification of thermal stability of enclosures 10.2.3 Verification of thermal stability of enclosures 10.2.3 Verification of fresistance of insulating materials to normal heat and fire due to internal electric effects 10.2.4 Resistance to ultra-violat (UV) radiation 10.2 Et Mochanical impact 10.2.5 Lifting 10.2.6 Mechanical impact 10.3.0 Degree of protection of ASSEMBLIES 10.4 Clearances and creepage distances 10.5 Lifting 10.6 Incorporation of switching devices and components 10.6 Incorporation of switching devices and components 10.7 Internal electric electric since of insulations 10.8 Connections for external conductors 10.9 Insulation properties 10.9 Power-frequency electric strength U = 690 V AC	Middle enclosure for wall mounting	P_V	W	292
Starting enclosure, free-standing Middle enclosure for wall mounting Pv W 630 Starting enclosure for wall mounting Pv W 630 Starting enclosure for wall mounting Pv W 630 Starting enclosure for wall mounting Pv W 638 Middle enclosure for wall mounting Pv W 638 Middle enclosure for wall mounting Pv W 658 EC/EN 61439 design verification 10.2 Strength of materials and parts 10.2.2 Corresion resistance 10.2.3.1 Verification of thermal stability of enclosures 10.2.3.2 Verification of resistance of insulating materials to normal heat and fire due to internal electric effects 10.2.3.2 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric effects 10.2.5 Mechanical impact 10.2.5 Mechanical impact 10.3.0 Degree of protection of ASSEMBLIES 10.3 Degree of protection of ASSEMBLIES 10.4 Clearances and creepage distances 10.5 Protection against electric shock 10.6 Incorporation of switching devices and components 10.7 Internal electrical circuits and connections 10.8 Connections for external conductors 10.9 Insulation properties 10.9 Insulation properties 10.9.2 Power-frequency electric strength V d 630 630 630 630 630 630 630 630	Heat dissipation, at an ambient temperature of 35°C, delta T: 35 degrees in top of the enclosure, calculated as per IEC 60890			
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Individual enclosure for wall mounting Starting enclosure for wall mounting Pv W 618 Middle enclosure for wall mounting Pv W 585 IEC/EN 61439 design verification 10.2 Strength of materials and parts 10.2.2 Corrosion resistance 10.2.3.1 Verification of thermal stability of enclosures 10.2.3.2 Verification of resistance of insulating materials to normal heat and fire due to internal electric effects 10.2.3.4 Resistance to ultra-violet (UV) radiation 10.2.5 Lifting 10.2.6 Machanical impact 10.2.7 Inscriptions 10.3 Degree of protection of ASSEMBLIES 10.4 Clearances and creepage distances 10.5 Protection against electric shock 10.5 Incorporation of switching devices and components 10.7 Internal electrical circuits and connections 10.8 Connections for external conductors 10.9 Insulation properties 10.9.2 Power-frequency electric strength We saw Meets the product standard's requirements. Not relevant to indoor installations. Met; ssembled and secured as per the latest applicable instruction leaflet. IK10 Mets the product standard's requirements. IK10 IL the panel builder's responsibility. 10.5 Protection against electric shock 10.5 Internal electrical circuits and connections 10.8 Lonnections for external conductors 10.9 Insulation properties 10.9.2 Power-frequency electric strength	Starting enclosure, free-standing	P_V	W	639
Starting enclosure for wall mounting Middle enclosure for wall mounting Py W 585 IEC/EN 61439 design verification 10.2 Strength of materials and parts 10.2.2 Corrosion resistance 10.2.3.1 Verification of thermal stability of enclosures 10.2.3.2 Verification of thermal stability of enclosures 10.2.3.2 Verification of resistance of insulating materials to normal heat and fire due to internal electric effects 10.2.4 Resistance to ultra-violet (UV) radiation 10.2.5 Lifting 10.2.6 Mechanical impact 10.3.7 Inscriptions 10.3 Degree of protection of ASSEMBLIES 10.4 Clearances and creepage distances 10.5 Protection against electric shock 10.5 Incorporation of switching devices and components 10.6 Incorporation of switching devices and components 10.7 Internal electrical circuits and connections 10.8 Connections for external conductors 10.9 Insulation properties 10.9 Py W 585 Weets the product standard's requirements. Not applicable. Not relevant to indoor installations. Met; assembled and secured as per the latest applicable instruction leaflet. IIK10 Meets the product standard's requirements. IP55 Is the panel builder's responsibility. 10.5 Protection against electric shock 10.6 Incorporation of switching devices and components 10.7 Internal electrical circuits and connections 10.8 Connections for external conductors 10.9 Insulation properties 10.9.9 Power-frequency electric strength U _i = 690 V AC	Middle enclosure, free-standing	P_{V}	W	620
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10.2.7 Inscriptions 10.3 Degree of protection of ASSEMBLIES 10.4 Clearances and creepage distances 10.5 Protection against electric shock 10.6 Incorporation of switching devices and components 10.7 Internal electrical circuits and connections 10.8 Connections for external conductors 10.9 Insulation properties 10.9.2 Power-frequency electric strength Meets the product standard's requirements. Is the panel builder's responsibility. Is the panel builder's responsibility. Is the panel builder's responsibility. U _i = 690 V AC	10.2.5 Lifting			Met; assembled and secured as per the latest applicable instruction leaflet.
10.3 Degree of protection of ASSEMBLIES 10.4 Clearances and creepage distances 1s the panel builder's responsibility. 10.5 Protection against electric shock 10.6 Incorporation of switching devices and components 10.7 Internal electrical circuits and connections 10.8 Connections for external conductors 10.9 Insulation properties 10.9.2 Power-frequency electric strength Is the panel builder's responsibility. U _i = 690 V AC	10.2.6 Mechanical impact			IK10
10.4 Clearances and creepage distances 10.5 Protection against electric shock 10.6 Incorporation of switching devices and components 10.7 Internal electrical circuits and connections 10.8 Connections for external conductors 10.9 Insulation properties 10.9.2 Power-frequency electric strength 10.9 Insulation properties 10.9 Insulation properties 10.9 Insulation properties 10.9 V AC	10.2.7 Inscriptions			Meets the product standard's requirements.
10.5 Protection against electric shock 10.6 Incorporation of switching devices and components 10.7 Internal electrical circuits and connections 10.8 Connections for external conductors 10.9 Insulation properties 10.9.2 Power-frequency electric strength	10.3 Degree of protection of ASSEMBLIES			IP55
10.6 Incorporation of switching devices and components 10.7 Internal electrical circuits and connections 10.8 Connections for external conductors 10.9 Insulation properties 10.9.2 Power-frequency electric strength Is the panel builder's responsibility. U _i = 690 V AC	10.4 Clearances and creepage distances			Is the panel builder's responsibility.
10.7 Internal electrical circuits and connections 10.8 Connections for external conductors 10.9 Insulation properties 10.9.2 Power-frequency electric strength Is the panel builder's responsibility. U _i = 690 V AC	10.5 Protection against electric shock			$<$ 0.1 $\Omega;$ meets the product standard's requirements.
10.8 Connections for external conductors 10.9 Insulation properties 10.9.2 Power-frequency electric strength U _i = 690 V AC	10.6 Incorporation of switching devices and components			Is the panel builder's responsibility.
10.9 Insulation properties 10.9.2 Power-frequency electric strength U _i = 690 V AC	10.7 Internal electrical circuits and connections			Is the panel builder's responsibility.
10.9.2 Power-frequency electric strength $U_i = 690 \text{ V AC}$				Is the panel builder's responsibility.
' '	10.9 Insulation properties			
10.9.3 Impulse withstand voltage 6 kV	10.9.2 Power-frequency electric strength			$U_i = 690 \text{ V AC}$
	10.9.3 Impulse withstand voltage			6 kV
10.9.4 Testing of enclosures made of insulating material Does not apply to metal enclosures.	10.9.4 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.	10.10 Temperature rise			

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

100mmodi data ETTW 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)				