



Distribution cabinet, IVS, HxWxD=2000x800x300mm, IP55

**Part no.** XVTL-MP/BF-8/3/20-IVS  
**Article no.** 118944

## Delivery program

Product range			Service distribution board IVS
Basic function			Combination enclosures
Single unit/Complete unit			Complete housing
Degree of Protection			IP55 (with door and flange)
Description			Basic enclosure xVtl Including open cable entries top, prepared for F3A flange
Material			Sheet steel
Surface finish			Polyester powder coating Phosphated RAL 7035, light grey
Colour			light gray (RAL 7035)
Information about equipment supplied			including frame, doors, back plate, top plate and branding strip Including support frame for the IVS mounting units including insulating surround and mounted insulated support bracket Without side walls
Width		mm	800
Height		mm	2000
Depth		mm	300

## Technical data

### General

Standards			EN 60439-1/3 IEC 62208
Protection class			1
Degree of Protection			IP55 (with door and flange)
Power loss			
Max. admissible heat dissipation, ambient air temperature +35 °C		W	429
Weight		kg	111

### Material characteristics

Material			Sheet steel
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			Doors with covered hinges Can be removed from 90°
door opening angle			120° (single mounting) 120° (combination mounting)
Door interlock			Roller lever lock Three-point interlock

### Material properties

Mechanical			
Impact resistance			IK07
Cable entry			Various covers allow cable entry from above and/or below
Electrical			
Rated operational voltage	U <sub>e</sub>	V	690
Rated frequency	f	Hz	50
Rated operational current	I <sub>e</sub>	A	630
Max. admissible heat dissipation, ambient air temperature +35 °C		W	429

Earthings			Screw M10 (base frame) M6 weld stud (enclosure side plate, top, bottom panel) Taptime screw M6 (door)
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## 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 <sub>V</sub>	CO	208
Starting enclosure, free-standing	P <sub>V</sub>	CO	201
Middle enclosure, free-standing	P <sub>V</sub>	CO	195
Individual enclosure for wall mounting	P <sub>V</sub>	CO	191
Starting enclosure for wall mounting	P <sub>V</sub>	CO	193
Middle enclosure for wall mounting	P <sub>V</sub>	CO	174
Heat dissipation, at an ambient temperature of 35°C, delta T: 35 degrees, calculated as per IEC 60890			
Individual enclosure, free-standing	P <sub>V</sub>	CO	417
Starting enclosure, free-standing	P <sub>V</sub>	CO	404
Middle enclosure, free-standing	P <sub>V</sub>	CO	392
Individual enclosure for wall mounting	P <sub>V</sub>	CO	382
Starting enclosure for wall mounting	P <sub>V</sub>	CO	387
Middle enclosure for wall mounting	P <sub>V</sub>	CO	348
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 <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.