



Floor standing distribution board

Part no. BP-F-400/20/3-P-IVS
Article no. 111372

Delivery program

Product range			Service distribution board IVS
Basic function			Floor-standing enclosures
Single unit/Complete unit			Complete housing
Degree of Protection			IP30 (only with door)
Description			Profi Plus basic enclosures Sheet steel door with rotary lever Exchangeable door hinges
Material			Sheet steel
Surface finish			Polyester powder coating Phosphated RAL 7035, light grey
Colour			light gray (RAL 7035)
Information about equipment supplied			Including mounting system for the IVS mounting units including insulating surround and mounted insulated support bracket including cable entry top and bottom, with push-through flange
Width		mm	400
Height		mm	2060
Depth		mm	300

Technical data

General			
Standards			EN 60439-1/3 IEC 62208
Protection class			1
Degree of Protection			IP30 (only with door)
Power loss			
Max. admissible heat dissipation, ambient air temperature +35 °C		W	202
Weight		kg	40.3

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			167° (single mounting) 60° (combination mounting)
Door interlock			Hinge handle with three-point turn-lock Cylinder lock

Material properties

Mechanical			
Impact resistance			IK07
Cable entry			Various covers allow cable entry from above and/or below
Electrical			
Rated operational voltage	U_e	V	690
Rated frequency	f	Hz	50
Rated operational current	I_e	A	630

Max. admissible heat dissipation, ambient air temperature +35 °C	W	202
Earthings		M6 weld stud (base frame) M5 self-tapping screw (enclosure side plate, top/bottom panel) M6 weld stud (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	113
Starting enclosure, free-standing	P _V	CO	103
Middle enclosure, free-standing	P _V	CO	95
Individual enclosure for wall mounting	P _V	CO	101
Starting enclosure for wall mounting	P _V	CO	87
Middle enclosure for wall mounting	P _V	CO	74
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	226
Starting enclosure, free-standing	P _V	CO	206
Middle enclosure, free-standing	P _V	CO	190
Individual enclosure for wall mounting	P _V	CO	202
Starting enclosure for wall mounting	P _V	CO	175
Middle enclosure for wall mounting	P _V	CO	148
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			
			Meets the product standard's requirements.
10.2.3.3 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric effects			
			Meets the product standard's requirements.
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			
			IK07
10.2.7 Inscriptions			
			Meets the product standard's requirements.
10.3 Degree of protection of ASSEMBLIES			
			IP30
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 = 440 V AC
10.9.3 Impulse withstand voltage			
			4 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.