



## Surface mounted service distribution board

**Part no.** BP-O-600/12-IVS  
**Article no.** 111358

### Delivery program

Product range			Service distribution board IVS
Basic function			Wall-mounting distribution system
Single unit/Complete unit			Complete housing
Degree of Protection			IP30 (only with door)
Description			Profi Plus basic enclosures Module design, can be dismantled completely 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 base frame, side panels, bottom/top panels and door Including support frame for the IVS mounting units including insulating surround and mounted insulated support bracket including cable entry at top, with push-through flange
Width		mm	600
Height		mm	1260
Depth		mm	262

### 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	170
Weight		kg	33.6

#### 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	170
Earthings			M5 earthing point screw (base frame) M5 self-tapping screw (enclosure side plate, top/bottom panel)

## 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 for wall mounting	P <sub>V</sub>	CO	80
Starting enclosure for wall mounting	P <sub>V</sub>	CO	75
Middle enclosure for wall mounting	P <sub>V</sub>	CO	71
Heat dissipation, at an ambient temperature of 35°C, delta T: 35 degrees, calculated as per IEC 60890			
Individual enclosure for wall mounting	P <sub>V</sub>	CO	161
Starting enclosure for wall mounting	P <sub>V</sub>	CO	151
Middle enclosure for wall mounting	P <sub>V</sub>	CO	143
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			Does not apply to enclosures without lifting aids.
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 <sub>i</sub> = 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.