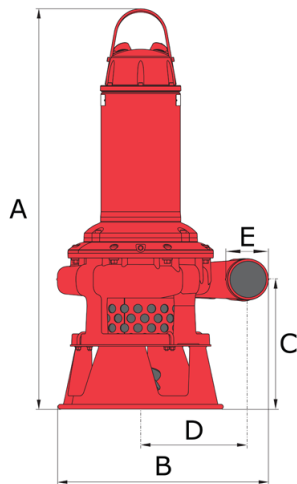




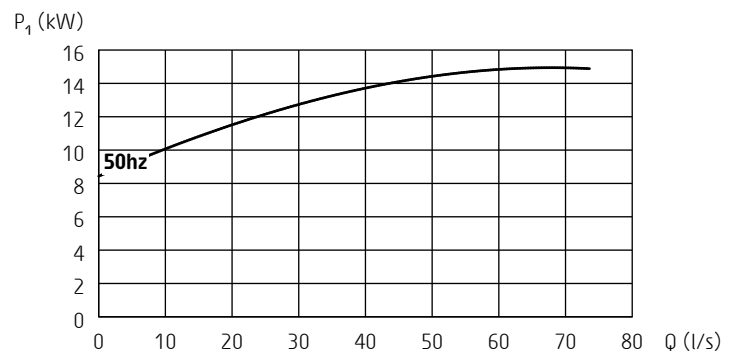
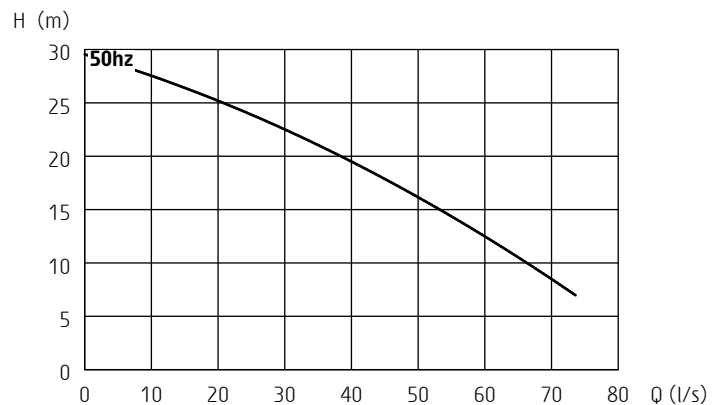
## Bravo 500 Ex

Explosion proof electrical submersible slurry pump



50 Hz	Bravo 500/15	Bravo 500/18	Bravo 500/22
Discharge connection E	4"	4"	4"
Rated power $P_2$ [kW]	15	18	22
Max. power consumption $P_1$ [kW]	17	21	25
Shaft speed [rpm]	1460	1460	1460
Rated current at 230V	53 A	62 A	73 A
Rated current at 400V	31 A	36 A	41 A
Rated current at 500V	24 A	29 A	33 A
Solids passage with agitator [mm]	40	40	40
Height [mm]	1273	1273	1273
Diameter [mm]	595	595	595
Weight [kg]	293	293	293

Other voltages on request



ISO 9906/A

### Ex approvals

European Norm (EN)

ATEX directive

EN 60079-0:2012/A11:2013, EN 60079-1:2007,

EN 13463-1:2009, EN 13463-5:2011

⊕ II 2G c Ex d IIB T3 Gb

⊕ I M2 c Ex d I Mb

FM (FM Approvals)

Explosion proof for use in Class I, Div 1, Group C and D

Dust ignition proof for use in Class II, Div 1, Group E, F and G

Suitable for use in Class III, Div 1, Hazardous Locations

### General description

Pump with closed impeller and agitator for reliable pumping of highly abrasive slurry in high concentrations

### Electrical motor

Squirrel cage induction motor

Insulation class: H (IEC 85), DOL or star/delta

Protection class: IP 68

### Motor protection

Thermal contacts, leakage sensor

**This pump must be used with external motor protection in accordance with technical data**

### Cable - SubCab 20 m (66 ft)

230V DOL: 4x10mm<sup>2</sup> + 2x1.5mm<sup>2</sup>

230V Y/D: 7x6mm<sup>2</sup> + 2x1.5mm<sup>2</sup>

400-500V DOL: 4x6mm<sup>2</sup> + 2x1.5mm<sup>2</sup>

400-500V Y/D: 7x4mm<sup>2</sup> + 2x1.5mm<sup>2</sup>

### Shaft seals

Cartridge seal: pre-assembled double mechanical seal running in an oil compartment

Material lower seal: tungsten carbide - tungsten carbide

Material upper seal: tungsten carbide - tungsten carbide

### Materials

Drive unit: *Cast iron*

Pump housing: *Hard-Iron™*

Impeller: *Hard-Iron™*

Lifting handle: *Stainless steel*

Shaft: *Stainless steel*

Agitator: *Hard-Iron™*

Studs, screws and nuts: *Stainless steel*

O-rings: *Nitrile rubber*

### Limitations

Max. submersion depth: 20 m (66 ft)

Max. liquid temperature: 40 °C (104 °F)

Allowed pH range: 5.5 - 14

Specifications can be changed without notice