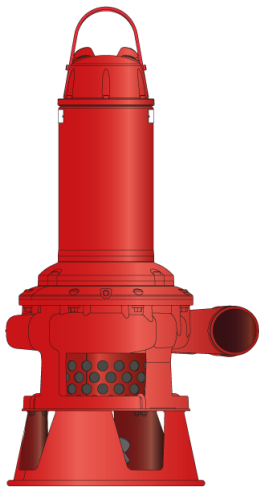




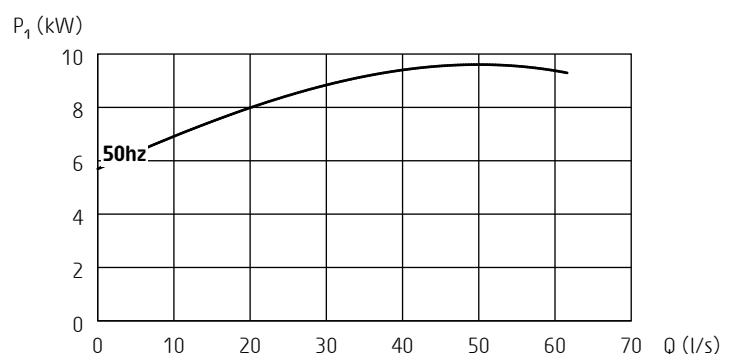
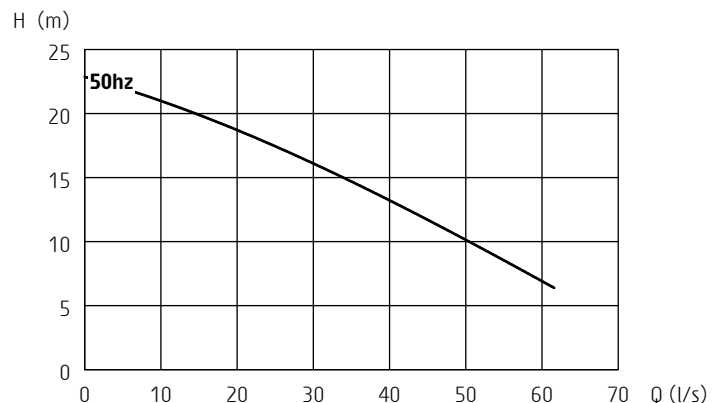
Bravo 400 Ex

Explosion proof electrical submersible slurry pump



50 Hz	Bravo 400
Discharge connection E	4"
Rated power P_2 [kW]	13,5
Max. power consumption P_1 [kW]	16
Shaft speed [rpm]	1455
Rated current at 230V	47 A
Rated current at 400V	28 A
Rated current at 500V	21 A
Solids passage with agitator [mm]	30
Height [mm]	1148
Diameter [mm]	595
Weight [kg]	231

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: 4x10mm² + 2x1.5mm²

230V Y/D: 7x6mm² + 2x1.5mm²

400-575V DOL: 4x6mm² + 2x1.5mm²

400-575V Y/D: 7x4mm² + 2x1.5mm²

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