



SUBMERSIBLE PUMP MTP090KW HH



MINETUFF™
PIONEER PUMP

PUMP SPECIFICATIONS

Motor Type	Submersible Squirrel Cage Induction
Pump Type	Submersible Centrifugal
Ingress Protection Rating	IP68
Insulation Class	Class H (IEC 85)
Motor Protection	Stator Thermistors in Series
Earth Protection	Earth Diode in Series
Max Allowable Consecutive Restarts Per Hour	15
Discharge Connection (AU STD)	100mm EN1092-2-T11
Cable Type	Type 241.1 Screened Mining 3G50+3XE+P
Cable Length (AU STD)	15m
Zinc Anodes	Fitted as Standard Ex Works

MOTOR SPECIFICATIONS

Rated Power	90kW
Full Load Output Power	89.8kW
Full Load Input Power	95.6kW
Rotational Speed	2,958RPM
Power Factor	0.923
Motor Efficiency	93.9%
Pump Efficiency	60.2%
Overall Efficiency	56.6%

APPLICATION SPECIFICATIONS

Maximum Submerged Depth	75m
Max Liquid Temperature	40°C
Allowable Pumped Liquid pH	6-11
Maximum Liquid Density	1,100kgm ³
Maximum Spherical Solid	10mm Strainer Hole

VOLTAGE	FULL LOAD CURRENT (A)	RESIST Ω*
380V	184.66	0.0461
400V	176.43	0.0572
415V	169.37	0.0623
440V	159.96	0.0678
500V	139.97	0.0796
525V	132.91	0.0935
550V	127.03	0.1040
1000V	70.87	0.1087

*75°C @ 2KVDC/1min

MATERIAL SPECIFICATIONS

Outer Casing / Stator Housing / Bearing Housing / Oil Housing / Diffusers / Suction Covers	EN1561 GJL-200 grey cast iron
Oil Housing / Diffusers / Suction Covers	Co-Polymer Polyurethane Wear Protection
Impellers	Stainless Steel
Mechanical Seals	316 Stainless Steel / Viton + Tungsten / Silicon Carbides
Rotor Shaft	Duplex Stainless Steel
O-rings	NBR + Hi-Temp HNBR + Viton
Strainer	316 Stainless Steel





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PUMP PERFORMANCE CURVE

