

DATA SHEET MTP090KW HH 50HZ

DIMENSIONS		MOTOR SPECIFICATIONS			
Pump only	Pump packaged				
<p>Weight: 984kg (2,169lbs)</p>	<p>Weight: 995kg (2,193lbs)</p>	Rated power	90kW (120HP)		
		Full load output power	89.8kW (120.4HP)		
		Full load input power	95.6kW (128.2HP)		
		Rotational speed	2,958 rpm		
		Power factor	0.923		
		Motor efficiency	93.9 %		
		Pump efficiency	60.2 %		
		Overall efficiency	56.6 %		
		Voltage	Full Load Current (A)	Inrush Current (A)	Resist Ω^*
		380V (Δ)	168	1,265	0.0461
		400V (Δ)	159	1,341	0.0572
		415V (Δ)	153	1,161	0.0623
		440V (Δ)	145	1,213	0.0678
		500V (Δ)	127	891	0.0796
		525V (Δ)	121	950	0.0935
		550V (Δ)	116	972	0.1040
		1000V (Y)	64	504	0.1087
		*75°C @ 2KVDC/1min			
PUMP PERFORMANCE		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 (AUS Std)	100mm (4") EN1092-2-T11		
		Cable type (AUS Std)	Type 241.1 screened mining 50mm ² x3+Ex3+Px1		
		Cable length (AUS Std)	15m (50ft)		
		Zinc anodes	Fitted as standard ex works		
		MATERIAL SPECIFICATIONS			
		Outer casing	Stator housing	EN1561 GJL-200 grey cast iron	
		Bearing housing	Oil housing	EN1561 GJL-200 grey cast iron	
		Diffusers	Suction covers	EN1561 GJL-200 grey cast iron	
		Oil housing	Diffusers	Co-polymer polyurethane wear protection	
		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		
		APPLICATION SPECIFICATIONS			
		Maximum submerged depth	75m (246ft)		
		Max liquid temperature	40°C (104°F)		
		Allowable pumped liquid pH	6-11		
		Maximum liquid density	1,100 kgm ³ (68 lbsft ³)		
		Maximum spherical solid \varnothing	10mm ($\frac{3}{8}$ " strainer hole)		