



Keystone Submersible Slurry Pump Data Sheet

Model: HDS 100L / HCR / Motor Frame 180T

HDS 100L Pump Data	
Discharge Size	4" (100mm)
Flange Rating	150# F.F. /ANSI B16.5
Impeller Dia.	9.05" (230mm)
Min. Impeller Trim Dia.	7.24" (184mm)
Max Particle Size	1.26" (32mm)
Max Pressure	225 PSI (1551KPA)
Min. Casing Thickness	0.55" (14mm)
Casing Wear Allowance	0.27" (7mm)

HDS 100L Wet End Materials of Construction			
Part	ASTM Material	Part	ASTM Material
Impeller	A532 CL III Type A	Shaft Adapter	17-4PH A564 Gr.630
Casing	A532 CL III Type A	Shaft Extension	17-4PH A564 Gr.630
Suction Cover	A532 CL III Type A	Fasteners	316 SS
Agitator	A532 CL III Type A	Gaskets	Durlon® 8500 (Eq.)
Stand	A536 Gr. 80-55-06	O-Ring	Buna

Electric Motor Information													
Flange mounted • 15 Minutes Operation in Air • 10 Stops & Starts/hr • (2) Moisture Sensing Probes • (2) Normally Closed Thermostats													
Horsepower	5 HP (3.7 KW)		7.5 HP (5.6 KW)		10 HP (7.4 KW)		7.5 HP (5.6 KW)		10 HP (7.4 KW)		15 HP (11.2 KW)		
RPM	1150		1140		1140		1735		1735		1730		
Voltage ¹	460V or 575V		460V or 575V		460V or 575V		460V or 575V		460V or 575V		460V or 575V		
Freq. (HZ) ²	60		60		60		60		60		60		
Motor Frame	180		180		180		180		180		180		
Enclosure Type	TENV		TENV		TENV		TENV		TENV		TENV		
Insulation Class ³	F 155 °C (310°F)		F 155 °C (310°F)		F 155 °C (310°F)		F 155 °C (310°F)		F 155 °C (310°F)		F 155 °C (310°F)		
Max Continuous Temp. in Liquid ⁴	40 °C (104°F)		40 °C (104°F)		40 °C (104°F)		40 °C (104°F)		40 °C (104°F)		40 °C (104°F)		
Service Factor	1.15		1.15		1.15		1.15		1.15		1.15		
Permitted Use	Class I, Div. 1, Group C&D		Class I, Div. 1, Group C&D		Class I, Div. 1, Group C&D		Class I, Div. 1, Group C&D		Class I, Div. 1, Group C&D		Class I, Div. 1, Group C&D		
Certification ^{5,6}	FM (USA, CDN)		FM (USA, CDN)		FM (USA, CDN)		FM (USA, CDN)		FM (USA, CDN)		FM (USA, CDN)		
Start	D.O.L.		D.O.L.		D.O.L.		D.O.L.		D.O.L.		D.O.L.		
Mechanical Seal	65 ft Depth	Run Dry Slurry Seal		Run Dry Slurry Seal		Run Dry Slurry Seal		Run Dry Slurry Seal		Run Dry Slurry Seal		Run Dry Slurry Seal	
Bearings	Radial Bearing	Ball Brg.		Ball Brg.		Ball Brg.		Ball Brg.		Ball Brg.		Ball Brg.	
Lubrication	Thrust Bearing	Ang. Ct. Brg.		Ang. Ct. Brg.		Ang. Ct. Brg.		Ang. Ct. Brg.		Ang. Ct. Brg.		Ang. Ct. Brg.	
		Greased for Life		Greased for Life		Greased for Life		Greased for Life		Greased for Life		Greased for Life	
Power & Control Cable Length ⁷	25 ft (7.6m)		25 ft (7.6m)		25 ft (7.6m)		25 ft (7.6m)		25 ft (7.6m)		25 ft (7.6m)		
Voltage	460V	575V	460V	575V	460V	575V	460V	575V	460V	575V	460V	575V	
FL. Amps	4/4	8.0	6.4	11.5	9.2	15	12	9.7	7.8	12.5	10	18.6	14.9
LCK. Amps		45	36	62	49.6	78	62.4	63	50.4	80	64	115	92
Efficiency	4/4	79	79	80	80	81	81	84	84	86	86	87	87
	3/4	78	78	80	80	81	81	83	83	86	86	85	85
	2/4	74	74	76.5	76.5	78.5	78.5	81	81	84	84	88	88
Power Factor	4/4	74	74	76	76	77	77	86	86	87	87	88	88
	3/4	67	67	69.5	69.5	71	71	81	81	82.5	82.5	84	84
	2/4	55	55	57.5	57.5	59	59	70.5	70.5	73	73	75	75
Torque	BD	220	220	205	205	200	200	250	250	250	250	255	255
%	LR	200	200	190	190	180	180	270	270	270	270	275	275

Motor Options	<ol style="list-style-type: none"> 1 380V, 400V & 475V Motors Available 2 50 Hz Frequency Available 3 H 180°C (356°F) Insulation Class Available 4 High Ambient Option Available 5 cFM_{USA} meets CSA electrical standards 6 CSA-M421 Ground Conductor Monitoring Compliant Systems Available 7 Up to 100 ft (30.5m) of Power & Control Cable Available
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