



Keystone Submersible Slurry Pump Data Sheet

Model: HDS 50L / HCR / Motor Frame 180T

HDS 50L Pump Data	
Discharge Size	2" (50mm)
Flange Rating	150# F.F. /ANSI B16.5
Impeller Dia.	8.46" (215mm)
Min. Impeller Trim Dia.	6.77" (172mm)
Max Particle Size	0.63" (16mm)
Max Pressure	225 PSI (1551KPA)
Min. Casing Thickness	0.55" (14mm)
Casing Wear Allowance	0.27" (7mm)

HDS 50L 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 Thrust Bearing		Ball Brg. Ang. Ct. Brg. Greased for Life		Ball Brg. Ang. Ct. Brg. Greased for Life		Ball Brg. Ang. Ct. Brg. Greased for Life		Ball Brg. Ang. Ct. Brg. Greased for Life		Ball Brg. Ang. Ct. Brg. Greased for Life	
Lubrication			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	
LCK. Amps			45 36		62 49.6		78 62.4		63 50.4		80 64	
Efficiency	4/4		79 79		80 80		81 81		84 84		86 86	
	3/4		78 78		80 80		81 81		83 83		86 86	
	2/4		74 74		76.5 76.5		78.5 78.5		81 81		84 84	
Power Factor	4/4		74 74		76 76		77 77		86 86		87 87	
	3/4		67 67		69.5 69.5		71 71		81 81		82.5 82.5	
	2/4		55 55		57.5 57.5		59 59		70.5 70.5		73 73	
Torque	BD		220 220		205 205		200 200		250 250		250 250	
%	LR		200 200		190 190		180 180		270 270		270 270	

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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