



# Keystone Submersible Slurry Pump Data Sheet

## Model: HDS 50L / HCR / Motor Frame 140T

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	2 HP (1.5 KW)	3 HP (2.2 KW)	5 HP (3.7 KW)			
RPM	1750	1750	1750			
Voltage <sup>1</sup>	460V or 575V	460V or 575V	460V or 575V			
Freq. (HZ) <sup>2</sup>	60	60	60			
Motor Frame	140	180	180			
Enclosure Type	TENV	TENV	TENV			
Insulation Class <sup>3</sup>	F 155 °C (310°F)	F 155 °C (310°F)	F 155 °C (310°F)			
Max Continuous Temp. in Liquid <sup>4</sup>	40 °C (104°F)	40 °C (104°F)	40 °C (104°F)			
Service Factor	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			
Certification <sup>5,6</sup>	FM (USA, CDN)	FM (USA, CDN)	FM (USA, CDN)			
Start	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			
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			
Lubrication						
Power & Control Cable Length <sup>7</sup>	25 ft (7.6m)	25 ft (7.6m)	25 ft (7.6m)			
Voltage	460V	575V	460V	575V	460V	575V
FL. Amps 4/4	3.1	2.5	4.4	3.52	6.9	5.52
LCK. Amps	23	18.4	30	24	44	35
Efficiency 4/4	75	75	77	77	79	79
3/4	73.5	73.5	76.5	76.5	79.5	79.5
2/4	69	69	73.5	73.5	78	78
Power Factor 4/4	80.5	80.5	83.5	83.5	86.5	86.5
3/4	74	74	77.5	77.5	82.5	82.5
2/4	62.5	62.5	66.5	66.5	72.5	72.5
Torque BD	270	270	250	250	225	225
% LR	350	350	310	310	270	270

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