



Keystone Submersible Slurry Pump Data Sheet

Model: HDS 150M / HCR / Motor Frame 320T

HDS 150M Pump Data	
Discharge Size	6" (150mm)
Flange Rating	150# F.F. /ANSI B16.5
Impeller Dia.	16.93" (430mm)
Min. Impeller Trim Dia.	13.60" (345mm)
Max Particle Size	2.16" (55mm)
Max Pressure	225 PSI (1551KPA)
Min. Casing Thickness	1" (25mm)
Casing Wear Allowance	0.51" (13mm)

HDS 150M 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
Motor Side Cover	A532 CL III Type A	Gaskets	Durlon® 8500 (eq.)
Agitator	A532 CL III Type A	O-Ring	Buna
Stand	A536 Gr. 80-55-06		

Electric Motor Information														
Flange mounted • 15 Minutes Operation in Air • 10 Stops & Starts/hr • (2) Moisture Sensing Probes • (2) Normally Closed Thermostats														
Horsepower	20 HP (14.9 KW)		25 HP (18.6 KW)		30 HP (22.4 KW)		40 HP (30 KW)		40 HP (30 KW)		50 HP (37 KW)		60 HP (45 KW)	
RPM	870		870		870		870		1165		1165		1165	
Voltage ¹	460V or 575V		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		60	
Motor Frame	320T		320T		320T		320T		320T		320T		320T	
Enclosure Type	TENV		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)		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)		40 °C (104°F)	
Service Factor	1.15		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		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)		FM (USA, CDN)	
Start	D.O.L.		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		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		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		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)		25 ft (7.6m)	
Voltage	460V	575V	460V	575V	460V	575V	460V	575V	460V	575V	460V	575V	460V	575V
FL Amps 4/4	29	23.2	36	29	42	34	56	45	53	43	64	52	79	64
LCK Amps	145	116	180	144	205	164	280	224	285	228	350	280	435	348
Efficiency 4/4	85	85	86	86	86.5	86.5	87	87	88	88	88.5	88.5	88.5	88.5
3/4	85	85	86	86	87	87	87.5	87.5	88	88	88.5	88.5	88.5	88.5
2/4	82.5	82.5	83.5	83.5	85.5	85.5	86	86	86.5	86.5	87	87	87	87
Power Factor 4/4	77	77	76.5	76.5	78	78	77.5	77.5	81	81	82.5	82.5	80	80
3/4	71	71	70.5	70.5	73	73	72.5	72.5	76.5	76.5	78.5	78.5	75	75
2/4	59.5	59.5	59	59	62	62	61	61	66	66	69.5	69.5	64.5	64.5
Torque % BD	200	200	200	200	200	200	200	200	200	200	200	200	210	210
% LR	180	180	180	180	170	170	180	180	170	170	170	170	190	190

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