



Keystone Submersible Slurry Pump Data Sheet

Model: HDS 100M / Motor Frame 320T

HDS 100M Pump Data	
Discharge Size	4" (100mm)
Flange Rating	150# F.F. /ANSI B16.5
Impeller Dia.	13.38 (340mm)
Min. Impeller Trim Dia.	10.7" (272mm)
Max Particle Size	1.56" (40mm)
Max Pressure	225 PSI (1551KPA)
Min. Casing Thickness	0.71" (18mm)
Casing Wear Allowance	0.35" (9mm)

HDS 100M 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	30 HP (22 KW)		40 HP (30 KW)		50 HP (37 KW)		60 HP (45 KW)		50 HP (37 KW)		60 HP (45 KW)		75 HP (56 KW)		
RPM	1165		1165		1165		1165		1760		1760		1760		
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		
Lubrication			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	40	32	53	42	64	51	79	63	61	49	73	59	89	71
LCK. Amps		216	173	285	228	350	280	435	348	340	272	430	344	420	336
Efficiency	4/4	87.5	87.5	88	88	88.5	88.5	88.5	88.5	90	90	90.5	90.5	91	91
	3/4	87	87	88	88	88.5	88.5	88.5	88.5	90	90	90.5	90.5	91	91
	2/4	85	85	86.5	86.5	87	87	87	87	88.5	88.5	89	89	90	90
Power Factor	4/4	80	80	81	81	82.5	82.5	80	80	85.5	85.5	85	85	87	87
	3/4	75	75	76.5	76.5	78.5	78.5	75	75	82.5	82.5	81.5	81.5	84	84
	2/4	64.5	64.5	66	66	69.5	69.5	64.5	64.5	74	74	72.5	72.5	77	77
Torque	BD	210	210	200	200	200	200	210	210	210	210	220	220	210	210
	LB-FT	LR	LR	LR	LR	LR	LR	LR	LR	LR	LR	LR	LR	LR	LR
		190	190	170	170	170	170	190	190	200	200	210	210	200	200

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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