



Keystone Submersible Slurry Pump Data Sheet

Model: HDS 75M / HCR / Motor Frame 320T

HDS 75M Pump Data	
Discharge Size	3" (75mm)
Flange Rating	150# F.F. /ANSI B16.5
Impeller Dia.	13.38 (340mm)
Min. Impeller Trim Dia.	10.7" (272mm)
Max Particle Size	1.38" (35mm)
Max Pressure	225 PSI (1551KPA)
Min. Casing Thickness	0.71" (18mm)
Casing Wear Allowance	0.35" (9mm)

HDS 75M 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	
Bearings	Radial Bearing		Ball Brg.		Ball Brg.		Ball Brg.		Ball Brg.		Ball Brg.		Ball Brg.	
	Thrust Bearing		Ang. Ct. Brg.		Ang. Ct. Brg.		Ang. Ct. Brg.		Ang. Ct. Brg.		Ang. Ct. Brg.		Ang. Ct. Brg.	
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	
LCK. Amps			216 173		285 228		350 280		435 348		340 272		430 344	
Efficiency	4/4		87.5 87.5		88 88		88.5 88.5		88.5 88.5		90 90		90.5 90.5	
	3/4		87 87		88 88		88.5 88.5		88.5 88.5		90 90		90.5 90.5	
	2/4		85 85		86.5 86.5		87 87		87 87		88.5 88.5		89 89	
Power Factor	4/4		80 80		81 81		82.5 82.5		80 80		85.5 85.5		85 85	
	3/4		75 75		76.5 76.5		78.5 78.5		75 75		82.5 82.5		81.5 81.5	
	2/4		64.5 64.5		66 66		69.5 69.5		64.5 64.5		74 74		72.5 72.5	
Torque	BD		210 210		200 200		200 200		210 210		210 210		220 210	
%	LR		190 190		170 170		170 170		190 190		200 200		210 200	

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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