



Keystone Submersible Slurry Pump Data Sheet

Model: HDS 200L / HCR / Motor Frame 320T

| HDS 200L Pump Data | |
|-------------------------|-----------------------|
| Discharge Size | 8" (200mm) |
| Flange Rating | 150# F.F. /ANSI B16.5 |
| Impeller Dia. | 15.35" (390mm) |
| Min. Impeller Trim Dia. | 11.81" (300mm) |
| Max Particle Size | 1.58" (40mm) |
| Max Pressure | 225 PSI (1551KPA) |
| Min. Casing Thickness | 0.79" (20mm) |
| Casing Wear Allowance | 0.35" (9mm) |

| HDS 200L 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 | 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 | 200 | 210 |
| % LR | 180 | 180 | 180 | 180 | 170 | 170 | 180 | 180 | 170 | 170 | 170 | 170 | 190 | 190 |

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| 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 cFMUSA 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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