



Keystone Submersible Slurry Pump Data Sheet

Model: HDS 150L / HCR / Motor Frame 250T

| HDS 150L Pump Data | |
|-------------------------|-----------------------|
| Discharge Size | 6" (150mm) |
| Flange Rating | 150# F.F. /ANSI B16.5 |
| Impeller Dia. | 9.84" (250mm) |
| Min. Impeller Trim Dia. | 7.82" (200mm) |
| Max Particle Size | 1.26" (32mm) |
| Max Pressure | 225 PSI (1551KPA) |
| Min. Casing Thickness | 0.78" (20mm) |
| Casing Wear Allowance | 0.35" (9mm) |

| HDS 150L 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 |
| Stand | A536 Gr. 80-55-06 | Gaskets | Durlon® 8500 (eq.) |
| Deflectors | 316 SS | 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 | | | | | | | | | | | | |
| Manufacture | E.I.M. | | E.I.M. | | E.I.M. | | E.I.M. | | E.I.M. | | E.I.M. | |
| Horsepower | 15 HP (11.2 KW) | | 20 HP (14.9 KW) | | 25 HP (18.6 KW) | | 25 HP (18.6 KW) | | 30 HP (22.4 KW) | | 40 HP (29.8 KW) | |
| RPM | 1160 | | 1160 | | 1160 | | 1750 | | 1750 | | 1745 | |
| Voltage ¹ | 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 | |
| Motor Frame | 250 T | | 250 T | | 250 T | | 250 T | | 250 T | | 250 T | |
| Enclosure Type | TENV | | TENV | | TENV | | TENV | | TENV | | TENV | |
| Insulation Class ³ | F (155 °C) | | F (155 °C) | | F (155 °C) | | F (155 °C) | | F (155 °C) | | F (155 °C) | |
| Max Continuous Temp. in Liquid ⁴ | 40 °C | | 40 °C | | 40 °C | | 40 °C | | 40 °C | | 40 °C | |
| Service Factor | 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 | |
| Certification ^{5,6} | 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. | |
| Mechanical Seal 65ft (20m) 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 Thrust Bearing Lubrication | 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 | |
| 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) | |
| Voltage | 460V | 575V | 460V | 575V | 460V | 575V | 460V | 575V | 460V | 575V | 460V | 575V |
| FL. Amps 4/4 | 22 | 17.6 | 27 | 21.6 | 35 | 28 | 31 | 24.8 | 36 | 28.8 | 48 | 38.4 |
| LCK. Amps | 110 | 88 | 140 | 112 | 180 | 144 | 165 | 132 | 195 | 156 | 290 | 232 |
| Efficiency 4/4 | 83.5 | 83.5 | 85.5 | 85.5 | 86 | 86 | 86.5 | 86.5 | 87 | 87 | 88.5 | 88.5 |
| 3/4 | 82.5 | 82.5 | 84.5 | 84.5 | 85.5 | 85.5 | 86.5 | 86.5 | 87.5 | 87.5 | 89 | 89 |
| 2/4 | 79.5 | 79.5 | 82 | 82 | 83 | 83 | 85 | 85 | 86.5 | 86.5 | 88 | 88 |
| Power Factor 4/4 | 79.5 | 79.5 | 81 | 81 | 79 | 79 | 89.5 | 89.5 | 90 | 90 | 89 | 89 |
| 3/4 | 73.5 | 73.5 | 75.5 | 75.5 | 73 | 73 | 88 | 88 | 89 | 89 | 86.5 | 86.5 |
| 2/4 | 62 | 62 | 64.5 | 64.5 | 62 | 62 | 82.5 | 82.5 | 84 | 84 | 80 | 80 |
| Torque BD | 210 | 210 | 210 | 210 | 220 | 220 | 205 | 205 | 200 | 200 | 215 | 215 |
| % LR | 190 | 190 | 180 | 180 | 200 | 200 | 220 | 220 | 215 | 215 | 250 | 250 |

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| Motor Options | <ol style="list-style-type: none"> 1 380V, 400V & 475V Motors Available 2 50 Hz Frequency Available 3 H (180°C) Insulation Class Available 4 High Ambient Option Available • Cooling Water Jacket Available 5 cFM_{USA} meets CSA electrical standards 6 CSA-M421 Ground Conductor Monitoring Compliant Systems Available 7 Up to 100 ft (30.5m) of Power & Control Cable Available |
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