



Keystone Submersible Slurry Pump Data Sheet

Model: HDS 75H / HCR / Motor Frame 360T

| HDS 75H Pump Data | |
|-------------------------|-----------------------|
| Discharge Size | 3" (75mm) |
| Flange Rating | 150# F.F. /ANSI B16.5 |
| Impeller Dia. | 15.75" (400mm) |
| Min. Impeller Trim Dia. | 11.81" (300mm) |
| Impeller Free Passage | 1.57" (40mm) |
| Max Pressure | 225 PSI (1551KPA) |
| Min. Casing Thickness | 0.95" (24mm) |
| Casing Wear Allowance | 0.5" (12mm) |

| HDS 75H 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 | 50 HP (37 KW) | | 60 HP (45 KW) | | 75 HP (56 KW) | | 75 HP (56 KW) | | 100 HP (75 KW) | | 100 HP (30 KW) | | 125 HP (30 KW) | |
| RPM | 880 | | 880 | | 880 | | 1170 | | 1175 | | 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 | 360T | | 360T | | 360T | | 360T | | 360T | | 360T | | 360T | |
| 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 | 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 | |
| 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 | 69 | 55 | 79 | 63 | 99 | 79 | 90 | 72 | 120 | 96 | 118 | 94.4 | 146 | 117 |
| LCK. Amps | 350 | 280 | 390 | 312 | 490 | 392 | 520 | 416 | 720 | 576 | 725 | 580 | 905 | 724 |
| Efficiency 4/4 | 88 | 88 | 88.5 | 90 | 89 | 89 | 90 | 90 | 91 | 91 | 91.5 | 91.5 | 92 | 92 |
| 3/4 | 87.5 | 87.5 | 88.5 | 90 | 89 | 89 | 90 | 90 | 90.5 | 90.5 | 91.5 | 91.5 | 92 | 92 |
| 2/4 | 85 | 85 | 80.5 | 89 | 87 | 87 | 89 | 89 | 89.5 | 89.5 | 90.5 | 90.5 | 91 | 91 |
| Power Factor 4/4 | 77.5 | 77.5 | 80.5 | 86.5 | 80 | 80 | 86.5 | 86.5 | 86 | 86 | 87 | 87 | 87 | 87 |
| 3/4 | 72.5 | 72.5 | 76.5 | 84.5 | 75.5 | 75.5 | 84.5 | 84.5 | 83.5 | 83.5 | 85 | 85 | 85 | 85 |
| 2/4 | 61.5 | 61.5 | 67 | 78 | 66 | 66 | 78 | 78 | 76.5 | 76.5 | 78 | 78 | 78 | 78 |
| Torque BD | 205 | 205 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 210 | 210 | 210 | 210 |
| % LR | 160 | 160 | 145 | 145 | 150 | 150 | 140 | 140 | 140 | 140 | 210 | 210 | 210 | 210 |

| | |
|---------------|--|
| Motor Options | <ol style="list-style-type: none"> 1 380V, 400V & 475V Motors Available 2 50 Hz Frequency Available 3 H 180°C (356°F) 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 8 Larger Submersible Motor Sizes Available |
|---------------|--|