



L8W Series

Rewindable water-filled submersible motors, suitable for use with 8" borehole pumps.

The choice of component materials and the sturdy construction ensure optimum operating performance, superior quality, reliability and easy installation.

Motor adapter and coupling dimensions to NEMA standards.

SPECIFICATIONS

Power supply: three-phase
50 and 60 Hz

Power: 30 kW to 93 kW, 380-415V,
50Hz

Motors with double cable outlet for star-delta starting can be supplied on request

Maximum overall diameter of pump (cable cover included):
192 mm

Maximum immersion depth:
350 m

Maximum water temperature:
+30°C.

Insulation class: Y

Protection: IP68

Tolerances: +/-10%

Power cable: ACS-approved

MATERIALS

Outer sleeve: Stainless steel

Upper support: Cast-iron

Thrust bearing: graphite (Kingsbury type)

Mechanical seal: Aluminium oxide - Graphite

Elastomers: NBR

Compensating diaphragm: EPDM

Cooling liquid: Water + antifreeze

APPLICATIONS

- Water supply
- Pressure boosting
- Irrigation
- Fire-fighting

Available on request:

- Motors with double cable outlet for star/delta start
- **L8WN series:** complete range available realized of AISI 316 stainless steel
- **L8WR series:** complete range available realized of Duplex stainless steel
- **HT series:** complete range available for all the L8W/N/R construction, realized for applications in high temperature environments (**up to 60°C**) or under inverter
- Silicon Carbide mechanical seal
- Temperature sensor
- PT 100 / PTC**
- Special voltages



For a complete list of technical information, consult www.lowara.com

Engineered for life



L8W SERIES MOTORS – DIMENSIONS AND WEIGHTS AT 50 Hz

4

| MOTOR TYPE | RATED POWER | | DIMENSIONS (mm) | WEIGHT |
|------------|-------------|-----|-----------------|--------|
| | kW | HP | L | kg |
| L8W300T405 | 30 | 40 | 1015 | 145 |
| L8W370T405 | 37 | 50 | 1105 | 162 |
| L8W450T405 | 45 | 60 | 1195 | 180 |
| L8W520T405 | 52 | 70 | 1285 | 200 |
| L8W550T405 | 55 | 75 | 1325 | 206 |
| L8W600T405 | 60 | 80 | 1375 | 217 |
| L8W670T405 | 67 | 90 | 1465 | 235 |
| L8W750T405 | 75 | 100 | 1555 | 252 |
| L8W830T405 | 83 | 110 | 1615 | 265 |
| L8W930T405 | 93 | 125 | 1755 | 290 |

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THREE-PHASE OPERATING CHARACTERISTICS AT 50 Hz

| MOTOR TYPE | RATED POWER | | RATED VOLTAGE | OPERATING CHARACTERISTICS AT RATED POWER | | | | | | DIRECT START | MAX WATER TEMPERATURE | CABLE TYPE | | |
|------------|-------------|-----|---------------|--|------|------|-------|--------|-------|--------------|-----------------------|-------------------------|-------|--|
| | | | | RATED CURRENT | | | START | | | | | Sec. (mm ²) | | |
| | kW | HP | V | A | rpm | η % | cos φ | Ts/Tn* | Is/In | °C | DOL | Y/D | L (m) | |
| L8W300T405 | 30 | 40 | 380 | 65,0 | 2905 | 83,0 | 0,85 | 1,20 | 4,67 | 30 | 10 | 6 | 5,5 | |
| | | | 400 | 62,0 | 2900 | 83,0 | 0,84 | 1,15 | 4,69 | | | | | |
| | | | 415 | 59,0 | 2900 | 83,0 | 0,84 | 1,09 | 4,70 | | | | | |
| L8W370T405 | 37 | 50 | 380 | 81,0 | 2840 | 80,5 | 0,87 | 1,04 | 4,19 | 30 | 10 | 6 | 5,5 | |
| | | | 400 | 78,5 | 2860 | 81,0 | 0,84 | 1,14 | 4,54 | | | | | |
| | | | 415 | 76,0 | 2870 | 81,5 | 0,83 | 1,23 | 4,88 | | | | | |
| L8W450T405 | 45 | 60 | 380 | 92,0 | 2850 | 82,0 | 0,87 | 0,92 | 3,72 | 30 | 16 | 6 | 5,5 | |
| | | | 400 | 89,0 | 2870 | 82,0 | 0,85 | 1,01 | 3,98 | | | | | |
| | | | 415 | 89,0 | 2880 | 83,5 | 0,83 | 1,09 | 4,23 | | | | | |
| L8W520T405 | 52 | 70 | 380 | 110 | 2840 | 82,0 | 0,86 | 1,14 | 3,90 | 30 | 16 | 6 | 5,5 | |
| | | | 400 | 108 | 2865 | 82,0 | 0,85 | 1,15 | 4,20 | | | | | |
| | | | 415 | 104 | 2885 | 82,5 | 0,82 | 1,16 | 4,50 | | | | | |
| L8W550T405 | 55 | 75 | 380 | 118 | 2840 | 82,0 | 0,87 | 1,26 | 3,57 | 30 | 16 | 10 | 5,5 | |
| | | | 400 | 114 | 2870 | 82,0 | 0,85 | 1,27 | 3,88 | | | | | |
| | | | 415 | 110 | 2885 | 82,5 | 0,83 | 1,27 | 4,19 | | | | | |
| L8W600T405 | 60 | 80 | 380 | 124 | 2855 | 82,0 | 0,87 | 1,12 | 4,18 | 30 | 16 | 10 | 5,5 | |
| | | | 400 | 120 | 2875 | 82,5 | 0,85 | 1,23 | 4,49 | | | | | |
| | | | 415 | 118 | 2885 | 83,5 | 0,83 | 1,33 | 4,80 | | | | | |
| L8W670T405 | 67 | 90 | 380 | 138 | 2850 | 82,5 | 0,88 | 0,98 | 4,22 | 30 | 25 | 10 | 5,5 | |
| | | | 400 | 133 | 2870 | 83,0 | 0,86 | 1,07 | 4,52 | | | | | |
| | | | 415 | 132 | 2885 | 83,5 | 0,83 | 1,16 | 4,82 | | | | | |
| L8W750T405 | 75 | 100 | 380 | 156 | 2860 | 82,0 | 0,87 | 0,92 | 4,10 | 30 | 25 | 16 | 5,5 | |
| | | | 400 | 152 | 2875 | 82,5 | 0,85 | 1,01 | 4,41 | | | | | |
| | | | 415 | 148 | 2885 | 83,0 | 0,82 | 1,10 | 4,72 | | | | | |
| L8W830T405 | 83 | 110 | 380 | 172 | 2860 | 83,0 | 0,87 | 0,91 | 4,12 | 30 | 35 | 16 | 5,5 | |
| | | | 400 | 168 | 2870 | 83,5 | 0,84 | 1,00 | 4,39 | | | | | |
| | | | 415 | 163 | 2880 | 84,0 | 0,82 | 1,08 | 4,66 | | | | | |
| L8W930T405 | 93 | 125 | 380 | 192 | 2850 | 83,0 | 0,87 | 0,84 | 3,38 | 30 | 35 | 16 | 5,5 | |
| | | | 400 | 186 | 2860 | 83,5 | 0,85 | 0,92 | 3,84 | | | | | |
| | | | 415 | 180 | 2885 | 84,0 | 0,83 | 1,00 | 4,30 | | | | | |

* Ts/Tn = ratio between starting torque and nominal torque.

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