

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22Xdb IE2 Three-Phase

Product code : 12383847  
Catalog # : E00152XP3WAX100LF3-W

Area classification : ZONA 1, GRUPO IIB, T4 (135 °C)

Frame : 100L  
Output : 1.5 kW (2 HP)  
Poles : 6  
Frequency : 50 Hz  
Rated voltage : 220/380 V  
Rated current : 6.49/3.76 A  
L. R. Amperes : 30.5/17.7 A  
LRC : 4.7  
No load current : 3.45/2.00 A  
Rated speed : 930 rpm  
Slip : 7.00 %  
Rated torque : 11.4 ft.lb  
Locked rotor torque : 190 %  
Breakdown torque : 210 %  
Insulation class : F  
Service factor : 1.00  
Moment of inertia (J) : 0.2603 sq.ft.lb  
Design : N

Locked rotor time : 41s (cold) 23s (hot)  
Temperature rise : 80 K  
Duty cycle : S1  
Ambient temperature : -20°C to +40°C  
Altitude : 1000 m.a.s.l.  
Protection degree : IP56  
Cooling method : IC411 - TEFC  
Mounting : B3T  
Rotation<sup>1</sup> : Both (CW and CCW)  
Noise level<sup>2</sup> : 44.0 dB(A)  
Starting method : Direct On Line  
Approx. weight<sup>3</sup> : 117 lb

| Output         | 25%  |      | 50%  |      | 75%  |      | 100% |      |
|----------------|------|------|------|------|------|------|------|------|
| Efficiency (%) | 80.5 | 79.1 | 80.7 | 79.5 | 80.1 | 80.0 | 79.8 | 80.0 |
|                | 77.4 | 77.6 | 78.3 | 80.0 | 79.7 | 81.5 | 80.3 | 84.0 |
| Power Factor   | 0.33 | 0.29 | 0.55 | 0.51 | 0.69 | 0.64 | 0.76 | 0.73 |
|                | 0.27 | 0.28 | 0.48 | 0.49 | 0.61 | 0.61 | 0.70 | 0.70 |

Foundation loads  
Max. traction : 137 lb  
Max. compression : 254 lb

|                      | Drive end        | Non drive end |
|----------------------|------------------|---------------|
| Bearing type         | 6206 ZZ          | 6205 ZZ       |
| Sealing              | Oil Seal         | Lip Seal      |
| Lubrication interval | -                | -             |
| Lubricant amount     | -                | -             |
| Lubricant type       | Mobil Polyrex EM |               |

### Notes:

ATEX  
INERIS 22ATEX0025X  
CML 23UKEX1256X  
II 2G Ex db IIB T4 Gb  
EAC  
EA3C RU C-BR.AA87.B.00379/20  
1Ex db IIB T4 Gb X  
ООО «НАННО ЦСВЭ»  
IECEX  
IECEX INE 22.0044X  
Ex db IIB T4 Gb

This revision replaces and cancel the previous one, which must be eliminated.

- (1) Looking the motor from the shaft end.
- (2) Measured at 1m and with tolerance of +3dB(A).
- (3) Approximate weight subject to changes after manufacturing process.
- (4) At 100% of full load.

These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in IEC 60034-1.

| Rev.         | Changes Summary | Performed              | Checked | Date |
|--------------|-----------------|------------------------|---------|------|
|              |                 |                        |         |      |
| Performed by |                 | Page Revision<br>1 / 2 |         |      |
| Checked by   |                 |                        |         |      |
| Date         | 27/03/2024      |                        |         |      |

Customer :

Thermal protection

| ID | Application | Type                 | Quantity  | Sensing Temperature |
|----|-------------|----------------------|-----------|---------------------|
| 1  | Winding     | Thermistor - 2 wires | 1 x Phase | 150 °C              |

Space heater information

Voltage: 200 - 240 V

|              |                 |  |           |         |          |
|--------------|-----------------|--|-----------|---------|----------|
| Rev.         | Changes Summary |  | Performed | Checked | Date     |
|              |                 |  |           |         |          |
| Performed by |                 |  |           | Page    | Revision |
| Checked by   |                 |  |           | 2 / 2   |          |
| Date         | 27/03/2024      |  |           |         |          |