

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22Xdb IE3 Three-Phase

Product code : 12430915

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

Catalog # : E00536XT3YAX132SF3-W

Frame : 132S/M  
Output : 5.5 kW (7.5 HP)  
Poles : 2  
Frequency : 50 Hz  
Rated voltage : 380/660 V  
Rated current : 10.8/6.22 A  
L. R. Amperes : 86.4/49.7 A  
LRC : 8.0  
No load current : 4.30/2.48 A  
Rated speed : 2945 rpm  
Slip : 1.83 %  
Rated torque : 13.2 ft.lb  
Locked rotor torque : 229 %  
Breakdown torque : 310 %  
Insulation class : F  
Service factor : 1.00  
Moment of inertia (J) : 0.4269 sq.ft.lb  
Design : N

Locked rotor time : 21s (cold) 12s (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> : 63.0 dB(A)  
Starting method : Direct On Line  
Approx. weight<sup>3</sup> : 225 lb

| Output         | 25%  |      | 50%  |      | 75%  |      | 100% |      |
|----------------|------|------|------|------|------|------|------|------|
| Efficiency (%) | 86.5 | 85.8 | 87.0 | 86.5 | 88.9 | 88.7 | 89.2 | 89.2 |
|                | 85.1 | 82.8 | 86.1 | 84.7 | 88.3 | 87.6 | 89.2 | 89.5 |
| Power Factor   | 0.45 | 0.41 | 0.71 | 0.66 | 0.82 | 0.78 | 0.87 | 0.84 |
|                | 0.37 | 0.40 | 0.61 | 0.65 | 0.74 | 0.77 | 0.81 | 0.83 |

Foundation loads  
Max. traction : 132 lb  
Max. compression : 359 lb

Losses at normative operating points (speed;torque), in percentage of rated output power

|            |                |      |      |      |      |
|------------|----------------|------|------|------|------|
| Losses (%) | P1 (0,9;1,0)   | 11.5 | 11.5 | 11.5 | 11.1 |
|            | P2 (0,5;1,0)   | 8.9  | 8.9  | 8.9  | 8.6  |
|            | P3 (0,25;1,0)  | 8.0  | 8.0  | 8.0  | 7.7  |
|            | P4 (0,9;0,5)   | 6.4  | 6.4  | 6.4  | 6.2  |
|            | P5 (0,5;0,5)   | 3.9  | 3.9  | 3.9  | 3.7  |
|            | P6 (0,5;0,25)  | 2.7  | 2.7  | 2.7  | 2.7  |
|            | P7 (0,25;0,25) | 1.7  | 1.7  | 1.7  | 1.7  |

|                      |   |                  |                      |
|----------------------|---|------------------|----------------------|
|                      |   | <u>Drive end</u> | <u>Non drive end</u> |
| Bearing type         | : | 6308 ZZ          | 6207 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  
EAЭC RU C-BR.AA87.B.00379/20  
1Ex db IIB T4 Gb X  
ООО «НАННО ЛСВЭ»  
IECEX  
IECEX INE 22.0044X  
Ex db IIB T4 Gb

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

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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

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