

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22Xec IE3 Three-Phase

Product code : 12861114

Catalog # : E01136ET3YAX160MF3-W

Area classification : ZONA 2/22, GRUPO IIC/IIIB, T3(200 °C)/  
T125 °C

Frame : 160M  
Output : 11 kW (15 HP)  
Poles : 2  
Frequency : 50 Hz  
Rated voltage : 380/660 V  
Rated current : 21.6/12.4 A  
L. R. Amperes : 170/98.1 A  
LRC : 7.9  
No load current : 9.10/5.24 A  
Rated speed : 2955 rpm  
Slip : 1.50 %  
Rated torque : 26.2 ft.lb  
Locked rotor torque : 270 %  
Breakdown torque : 350 %  
Insulation class : F  
Service factor : 1.00  
Moment of inertia (J) : 1.14 sq.ft.lb  
Design : N

Locked rotor time : 16s (cold) 9s (hot)  
Temperature rise : 80 K  
Duty cycle : S1  
Ambient temperature : -20°C to +40°C  
Altitude : 1000 m.a.s.l.  
Protection degree : IP55  
Cooling method : IC411 - TEFC  
Mounting : B3T  
Rotation<sup>1</sup> : Both (CW and CCW)  
Noise level<sup>2</sup> : 67.0 dB(A)  
Starting method : Direct On Line  
Approx. weight<sup>3</sup> : 273 lb

| Output         | 50%       | 75%       | 100%      |
|----------------|-----------|-----------|-----------|
| Efficiency (%) | 90.0 89.0 | 91.2 91.0 | 91.2 91.2 |
|                | 88.0 89.0 | 90.0 91.0 | 91.2 91.0 |
| Power Factor   | 0.69 0.65 | 0.80 0.76 | 0.85 0.83 |
|                | 0.60 0.62 | 0.73 0.74 | 0.81 0.80 |

Foundation loads  
Max. traction : 349 lb  
Max. compression : 631 lb

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

|            |                |     |     |     |     |
|------------|----------------|-----|-----|-----|-----|
| Losses (%) | P1 (0,9;1,0)   | 9.3 | 9.3 | 9.3 | 9.5 |
|            | P2 (0,5;1,0)   | 7.7 | 7.7 | 7.7 | 7.9 |
|            | P3 (0,25;1,0)  | 7.1 | 7.1 | 7.1 | 7.3 |
|            | P4 (0,9;0,5)   | 5.1 | 5.1 | 5.1 | 5.2 |
|            | P5 (0,5;0,5)   | 3.4 | 3.4 | 3.4 | 3.5 |
|            | P6 (0,5;0,25)  | 2.4 | 2.4 | 2.4 | 2.5 |
|            | P7 (0,25;0,25) | 1.7 | 1.7 | 1.7 | 1.7 |

|                      |   |                  |                      |
|----------------------|---|------------------|----------------------|
|                      |   | <u>Drive end</u> | <u>Non drive end</u> |
| Bearing type         | : | 6309 C3          | 6209 C3              |
| Sealing              | : | V'Ring           | V'Ring               |
| Lubrication interval | : | 20000 h          | 20000 h              |
| Lubricant amount     | : | 13 g             | 9 g                  |
| Lubricant type       | : | Mobil Polyrex EM |                      |

Notes:

ATEX  
Baseefa 10ATEX0192X  
BAS21UKEX0284X  
II 3G Ex ec IIC T3 Gc  
II 3D Ex tc IIIB T125°C Dc  
EAC  
TC RU C-BR.AA87.B.00977/22  
2Ex ec IIC T3 Gc X  
Ex tc IIIB T125°C Dc X  
OOO «НАННО ЛСВЭ»  
IECEX

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

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## Three Phase Induction Motor - Squirrel Cage



Customer :

IECEX BAS 10.0099X  
Ex ec IIC T3 Gc  
Ex tc IIIB T125°C Dc

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|--------------|-----------------|--|---------------|---------|----------|
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Customer :

### Thermal protection

| ID | Application | Type                 | Quantity  | Sensing Temperature |
|----|-------------|----------------------|-----------|---------------------|
| 1  | Winding     | Thermistor - 2 wires | 1 x Phase | 140 °C              |
| 2  | Winding     | Thermistor - 2 wires | 1 x Phase | 155 °C              |

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|--------------|-----------------|--|-----------|---------------|----------|
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