

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22Xec IE3 Three-Phase

Product code : 14352874

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

Catalog # : E25018ET3YAX355MLF3W

Frame : 355M/L  
Output : 250 kW (340 HP)  
Poles : 4  
Frequency : 50 Hz  
Rated voltage : 380/660 V  
Rated current : 460/265 A  
L. R. Amperes : 3358/1933 A  
LRC : 7.3  
No load current : 135/77.7 A  
Rated speed : 1488 rpm  
Slip : 0.80 %  
Rated torque : 1180 ft.lb  
Locked rotor torque : 200 %  
Breakdown torque : 210 %  
Insulation class : F  
Service factor : 1.00  
Moment of inertia (J) : 183 sq.ft.lb  
Design : N

Locked rotor time : 36s (cold) 20s (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> : 76.0 dB(A)  
Starting method : Direct On Line  
Approx. weight<sup>3</sup> : 3419 lb

| Output         | 25%  |      | 50%  |      | 75%  |      | 100% |      |
|----------------|------|------|------|------|------|------|------|------|
| Efficiency (%) | 95.7 | 95.8 | 95.8 | 95.9 | 96.0 | 96.0 | 96.0 | 96.0 |
|                | 95.7 | 95.1 | 95.8 | 95.2 | 96.0 | 96.2 | 96.0 | 96.2 |
| Power Factor   | 0.53 | 0.49 | 0.77 | 0.74 | 0.84 | 0.82 | 0.86 | 0.85 |
|                | 0.46 | 0.47 | 0.71 | 0.72 | 0.80 | 0.81 | 0.84 | 0.85 |

Foundation loads  
Max. traction : 3598 lb  
Max. compression : 7016 lb

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

| Losses (%) | P1 (0,9;1,0)   | 4.3 | 4.3 | 4.3 | 4.1 |
|------------|----------------|-----|-----|-----|-----|
|            | P2 (0,5;1,0)   | 3.4 | 3.4 | 3.4 | 3.2 |
|            | P3 (0,25;1,0)  | 2.9 | 2.9 | 2.9 | 2.8 |
|            | P4 (0,9;0,5)   | 2.3 | 2.3 | 2.3 | 2.2 |
|            | P5 (0,5;0,5)   | 1.5 | 1.5 | 1.5 | 1.4 |
|            | P6 (0,5;0,25)  | 1.1 | 1.1 | 1.1 | 1.0 |
|            | P7 (0,25;0,25) | 0.6 | 0.6 | 0.6 | 0.6 |

|                      |   |                  |                      |
|----------------------|---|------------------|----------------------|
|                      |   | <u>Drive end</u> | <u>Non drive end</u> |
| Bearing type         | : | 6322 C3          | 6319 C3              |
| Sealing              | : | WSeal            | WSeal                |
| Lubrication interval | : | 9000 h           | 11000 h              |
| Lubricant amount     | : | 60 g             | 45 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 ЦСБЭ»  
IECEX  
IECEX BAS 10.0099X

| Rev.         | Changes Summary | Performed                 | Checked | Date |
|--------------|-----------------|---------------------------|---------|------|
|              |                 |                           |         |      |
| Performed by |                 | Page<br>1 / 3<br>Revision |         |      |
| Checked by   |                 |                           |         |      |
| Date         | 27/03/2024      |                           |         |      |

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Customer :

Ex ec IIC T3 Gc  
Ex tc IIIB T125°C Dc

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|--------------|-----------------|--|-----------|---------|----------|
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| Performed by |                 |  | Page      |         | Revision |
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## Three Phase Induction Motor - Squirrel Cage



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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