

# DATA SHEET



## Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : Rolled Steel NEMA Premium Efficiency  
Three-Phase

Product code : 12682571

Catalog # : 00156OT3H143T-S

Frame : 143/5T  
Output : 1.5 HP (1.1 kW)  
Poles : 2  
Frequency : 60 Hz  
Rated voltage : 575 V  
Rated current : 1.48 A  
L. R. Amperes : 12.7 A  
LRC : 8.6x(Code K)  
No load current : 0.647 A  
Rated speed : 3510 rpm  
Slip : 2.50 %  
Rated torque : 0.310 kgfm  
Locked rotor torque : 210 %  
Breakdown torque : 330 %  
Insulation class : F  
Service factor : 1.15  
Moment of inertia (J) : 0.0035 kgm<sup>2</sup>  
Design : B

Locked rotor time : 34s (cold) 19s (hot)  
Temperature rise : 80 K  
Duty cycle : Cont.(S1)  
Ambient temperature : -20°C to +40°C  
Altitude : 1000 m.a.s.l.  
Cooling method : IC01 - ODP  
Mounting : F-1  
Rotation<sup>1</sup> : Both (CW and CCW)  
Noise level<sup>2</sup> : 62.0 dB(A)  
Starting method : Direct On Line  
Approx. weight<sup>3</sup> : 13.3 kg

|                |      |      |      |
|----------------|------|------|------|
| Output         | 50%  | 75%  | 100% |
| Efficiency (%) | 81.5 | 84.0 | 84.0 |
| Power Factor   | 0.73 | 0.83 | 0.89 |

Foundation loads  
Max. traction : 22 kgf  
Max. compression : 35 kgf

|                      | Drive end            | Non drive end        |
|----------------------|----------------------|----------------------|
| Bearing type         | 6205 ZZ              | 6203 ZZ              |
| Sealing              | Without Bearing Seal | Without Bearing Seal |
| Lubrication interval | -                    | -                    |
| Lubricant amount     | -                    | -                    |
| Lubricant type       | Mobil Polyrex EM     |                      |

Notes:

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 NEMA MG-1.

| Rev.         | Changes Summary | Performed | Checked | Date     |
|--------------|-----------------|-----------|---------|----------|
|              |                 |           |         |          |
| Performed by |                 | Page      |         | Revision |
| Checked by   |                 |           |         |          |
| Date         | 27/12/2023      |           |         |          |
|              |                 | 1 / 1     |         |          |