

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 11605987

Catalog # : 01018ET3H215TC-W22

Frame : 213/5TC  
Output : 10 HP (7.5 kW)  
Poles : 4  
Frequency : 60 Hz  
Rated voltage : 575 V  
Rated current : 10.1 A  
L. R. Amperes : 64.9 A  
LRC : 6.4x(Code H)  
No load current : 4.52 A  
Rated speed : 1765 rpm  
Slip : 1.94 %  
Rated torque : 29.8 ft.lb  
Locked rotor torque : 200 %  
Breakdown torque : 295 %  
Insulation class : F  
Service factor : 1.25  
Moment of inertia (J) : 1.51 sq.ft.lb  
Design : B

Locked rotor time : 30s (cold) 17s (hot)  
Temperature rise : 80 K  
Duty cycle : Cont.(S1)  
Ambient temperature : -20°C to +40°C  
Altitude : 1000 m.a.s.l.  
Protection degree : IP55  
Cooling method : IC411 - TEFC  
Mounting : F-1  
Rotation<sup>1</sup> : Both (CW and CCW)  
Noise level<sup>2</sup> : 58.0 dB(A)  
Starting method : Direct On Line  
Approx. weight<sup>3</sup> : 181 lb

Output 25% 50% 75% 100%

Efficiency (%) 90.8 91.0 91.7 91.7  
Power Factor 0.40 0.65 0.76 0.81

Foundation loads

Max. traction : 405 lb  
Max. compression : 585 lb

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

| P1 (0,9;1,0) | P2 (0,5;1,0) | P3 (0,25;1,0) | P4 (0,9;0,5) | P5 (0,5;0,5) | P6 (0,5;0,25) | P7 (0,25;0,25) |
|--------------|--------------|---------------|--------------|--------------|---------------|----------------|
| 8.8          | 7.3          | 7.0           | 4.6          | 3.2          | 2.3           | 1.6            |

|                        |  |                  |                      |
|------------------------|--|------------------|----------------------|
|                        |  | <u>Drive end</u> | <u>Non drive end</u> |
| Bearing type :         |  | 6308 ZZ          | 6207 ZZ              |
| Sealing :              |  | V'Ring           | V'Ring               |
| 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<br>1 / 1 |         |      |
| Checked by   |                 |                        |         |      |
| Date         | 26/03/2024      |                        |         |      |