

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer : \_\_\_\_\_

Product line : Special Motor

|                       |                   |                             |                         |
|-----------------------|-------------------|-----------------------------|-------------------------|
| Frame                 | : 447/9T          | Locked rotor time           | : 6 s (hot) 11 s (cold) |
| Output                | : 300 HP (220 kW) | Temperature rise            | : 80 K                  |
| Poles                 | : 4               | Duty cycle                  | : S1                    |
| Frequency             | : 60 Hz           | Ambient temperature         | : -20 °C to +40 °C      |
| Rated voltage         | : 575 V           | Altitude                    | : 3280 ft               |
| Rated current         | : 315 A           | Protection degree           | : IP55                  |
| L. R. Amperes         | : 3758 A          | Cooling method              | : IC411 - TEFC          |
| LRC                   | : 11.9            | Mounting                    | : F-1                   |
| No load current       | : 177 A           | Rotation <sup>1</sup>       | : Both                  |
| Rated speed           | : 1790 rpm        | Noise level <sup>2</sup>    | : 75.0 dB(A)            |
| Slip                  | : 0.56 %          | Vibration class             | : B                     |
| Rated torque          | : 882 ft.lb       | Starting method             | : Direct On Line        |
| Locked rotor torque   | : 450.0 %         | Coupling                    | : Direct                |
| Pull up torque        | : 380.0 %         | Approx. weight <sup>3</sup> | : 2657 lb               |
| Breakdown torque      | : 440.0 %         | Painting plan               | : 203A                  |
| Insulation class      | : F               | Color                       | : RAL 5009              |
| Service factor        | : 1.15            | Design                      | : A                     |
| Moment of inertia (J) | : 75.9 sq.ft.lb   |                             |                         |

|                |      |      |      |                                     |     |
|----------------|------|------|------|-------------------------------------|-----|
| Output         | 50%  | 75%  | 100% | Load type                           | : - |
| Efficiency (%) | 94.4 | 95.5 | 96.2 | Load torque                         | : - |
| Power Factor   | 0.52 | 0.65 | 0.73 | Load inertia (J=GD <sup>2</sup> /4) | : - |

|                      |                  |               |                  |   |
|----------------------|------------------|---------------|------------------|---|
|                      | Drive end        | Non drive end | Foundation loads |   |
| Bearing type         | NU-322-C3        | 6319-C3       | Max. traction    | : |
| Lubrication interval | 4000 h           | 8000 h        | Max. compression | : |
| Lubricant amount     | 60 g             | 45 g          |                  |   |
| Lubricant type       | MOBIL POLYREX EM |               |                  |   |

Notes  
See notes on page 2.

| 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) |
| 4.4  | 3.2          | 2.4           | 3.3          | 2.1          | 1.9           | 1.1            |

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 be changed after manufacturing process.

These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA MG 1-12.

|              |                 |            |         |      |
|--------------|-----------------|------------|---------|------|
| Rev.         | Changes Summary | Rev.       | Checked | Date |
|              |                 |            |         |      |
| Performed by | mgodoi          | 1855754996 |         |      |
| Checked by   | AUTOMATICO      | Page       | Rev.    |      |
| Date         | 02/06/2026      | 1 / 2      | 0       |      |

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Product line : Special Motor

Notes

Customer information  
CSA  
Class I, Div 2, Gr A, B, C, D - T2C  
Class I, Zone 2, IIC - T2C  
Class II, Div 2, Gr F, G - T3C  
For use on PWM: Gr. A, B, C, D, F,  
VT 1000:1, CT 6:1, 1.00SF - T3

|           |                               |                           |
|-----------|-------------------------------|---------------------------|
| Standards | Specification : MG1 - Part 20 | Vibration : MG1 - Part 7  |
|           | Test : MG1 - Part 20          | Tolerance : MG1 - Part 12 |
|           | Noise : MG1 - Part 9          |                           |

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