

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Cooling Tower High Efficiency Three-Phase Product code : 12172469  
Catalog # : 00289EP3PCT145V-W22

|                                      |                                           |
|--------------------------------------|-------------------------------------------|
| Frame : 143/5T                       | Cooling method : IC411 - TEFC             |
| Insulation class : F                 | Mounting : F-2                            |
| Duty cycle : Cont.(S1)               | Rotation <sup>1</sup> : Both (CW and CCW) |
| Ambient temperature : -20°C to +40°C | Starting method : Direct On Line          |
| Altitude : 1000 m.a.s.l.             | Approx. weight <sup>2</sup> : 2.2 lb      |
| Protection degree : IP55             | Moment of inertia (J) : 0.1590 sq.ft.lb   |

|                          |                     |                      |
|--------------------------|---------------------|----------------------|
| Output [HP]              | 2                   | 0.5                  |
| Poles                    | 4                   | 8                    |
| Frequency [Hz]           | 60                  | 60                   |
| Rated voltage [V]        | 200                 | 200                  |
| Rated current [A]        | 6.40                | 2.88                 |
| L. R. Amperes [A]        | 51.2                | 10.4                 |
| LRC [A]                  | 8.0x(Code K)        | 3.6x(Code J)         |
| No load current [A]      | 3.68                | 2.42                 |
| Rated speed [RPM]        | 1720                | 840                  |
| Slip [%]                 | 4.44                | 6.67                 |
| Rated torque [ft.lb]     | 6.02                | 3.08                 |
| Locked rotor torque [%]  | 270                 | 180                  |
| Breakdown torque [%]     | 300                 | 229                  |
| Service factor           | 1.25                | 1.25                 |
| Temperature rise         | 80 K                | 80 K                 |
| Locked rotor time        | 10s (cold) 6s (hot) | 50s (cold) 28s (hot) |
| Noise level <sup>2</sup> | 51.0 dB(A)          | 47.0 dB(A)           |
| Efficiency (%)           | 25%                 | 75.7                 |
|                          | 50%                 | 77.0                 |
|                          | 75%                 | 81.5                 |
|                          | 100%                | 82.5                 |
| Power Factor             | 25%                 | 0.35                 |
|                          | 50%                 | 0.60                 |
|                          | 75%                 | 0.73                 |
|                          | 100%                | 0.82                 |

|                        |                  |                      |                          |
|------------------------|------------------|----------------------|--------------------------|
|                        | <u>Drive end</u> | <u>Non drive end</u> | Foundation loads         |
| Bearing type :         | 6205 2RS         | 6204 2RS             | Max. traction : 60 lb    |
| Sealing :              | V'Ring           | V'Ring               | Max. compression : 62 lb |
| 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 |                 |           |         |      |
| Checked by   |                 |           |         |      |
| Date         | 18/01/2018      |           |         |      |

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Revision

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## Three Phase Induction Motor - Squirrel Cage



Customer :

### Space heater information

Voltage: 200 - 240 V

| Rev.         | Changes Summary |  | Performed     | Checked | Date     |
|--------------|-----------------|--|---------------|---------|----------|
|              |                 |  |               |         |          |
| Performed by |                 |  | Page<br>2 / 2 |         | Revision |
| Checked by   |                 |  |               |         |          |
| Date         | 18/01/2018      |  |               |         |          |