

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Brake Motor NEMA Premium Efficiency Three-Phase Product code : 13473873
Catalog # : 00109ET3EBM182T-W22

| | | | |
|-----------------------|-------------------|-----------------------------|------------------------|
| Frame | : 182/4T | Locked rotor time | : 39s (cold) 22s (hot) |
| Output | : 1 HP (0.75 kW) | Temperature rise | : 80 K |
| Poles | : 8 | Duty cycle | : Cont.(S1) |
| Frequency | : 60 Hz | Ambient temperature | : -20°C to +40°C |
| Rated voltage | : 230/460 V | Altitude | : 1000 m.a.s.l. |
| Rated current | : 4.62/2.31 A | Protection degree | : IP55 |
| L. R. Amperes | : 29.1/14.6 A | Cooling method | : IC411 - TEFC |
| LRC | : 6.3x(Code N) | Mounting | : F-1 |
| No load current | : 4.00/2.00 A | Rotation ¹ | : Both (CW and CCW) |
| Rated speed | : 880 rpm | Noise level ² | : 50.0 dB(A) |
| Slip | : 2.22 % | Starting method | : Direct On Line |
| Rated torque | : 5.97 ft.lb | Approx. weight ³ | : 98.6 lb |
| Locked rotor torque | : 300 % | | |
| Breakdown torque | : 350 % | | |
| Insulation class | : F | | |
| Service factor | : 1.25 | | |
| Moment of inertia (J) | : 0.3991 sq.ft.lb | | |
| Design | : B | | |

| | | | | | | |
|----------------|------|------|------|------|------------------|----------|
| Output | 25% | 50% | 75% | 100% | Foundation loads | |
| Efficiency (%) | 70.9 | 72.5 | 77.0 | 78.5 | Max. traction | : 84 lb |
| Power Factor | 0.17 | 0.32 | 0.42 | 0.52 | Max. compression | : 182 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) |
|--------------|--------------|---------------|--------------|--------------|---------------|----------------|
| 26.1 | 21.3 | 18.8 | 21.1 | 16.5 | 15.5 | 12.9 |

| | | | |
|----------------------|---|------------------|----------------------|
| | | <u>Drive end</u> | <u>Non drive end</u> |
| Bearing type | : | 6207 ZZ | 6206 ZZ |
| Sealing | : | V'Ring | Lip Seal |
| Lubrication interval | : | - | - |
| Lubricant amount | : | - | - |
| Lubricant type | : | Mobil Polyrex EM | |

Notes:
USABLE @208V 5.09A SF 1.15 SFA 5.85A

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 1 / 2 | | |
| Checked by | | | | |
| Date | 29/03/2024 | | | |

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Customer :

Brake information

Voltage: 220-240 V
Brake Torque: 44.3 ft.lb

| Rev. | Changes Summary | | Performed | Checked | Date |
|--------------|-----------------|--|---------------|---------|----------|
| | | | | | |
| Performed by | | | Page 2 / 2 | | Revision |
| Checked by | | | | | |
| Date | 29/03/2024 | | | | |