DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Tru-Metric IE3 Three-Phase Product code : 11749853

Frame : 100L : 16s (cold) 9s (hot) Locked rotor time Output : 4 HP (3 kW) Temperature rise : 80 K Poles Duty cycle : S1 : 2 Frequency : 60 Hz Ambient temperature : -20°C to +40°C Rated voltage : 230/460 V Altitude : 1000 m.a.s.l.

 Rated current
 : 10.4/5.19 A
 Protection degree
 : IP55

 L. R. Amperes
 : 104/51.9 A
 Cooling method
 : IC411 - TEFC

 LRC
 : 10.0
 Mounting
 : B3L(E)

 No load current
 : 5.60/2.80 A
 Rotation¹
 : Both (CW and

No load current: 5.60/2.80 ARotation¹: Both (CW and CCW)Rated speed: 3530 rpmNoise level²: 71.0 dB(A)Slip: 1.94 %Starting method: Direct On LineRated torque: 0.824 kgfmApprox. weight³: 31.0 kg

Locked rotor torque : 300 %

Breakdown torque : 440 %

Insulation class : F

Service factor : 1.25

Moment of inertia (J) : 0.0064 kgm²

Design : N

Design : N

Output 50% 75% 100% Foundation loads Efficiency (%) 82.5 86.5 88.5 : 74 kgf Max. traction Power Factor 0.64 0.76 0.82 : 105 kgf Max. compression

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) |
|--------------|--------------|---------------|--------------|--------------|---------------|----------------|
| 12.1 | 9.2 | 8.8 | 7.7 | 4.7 | 3.8 | 2.5 |

Drive end
Bearing typeDrive end
6206 ZZNon drive end
6205 ZZSealing:6206 ZZSealing Lubrication interval:V'Ring
-

Lubricant amount : - - 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 |
|--------------|------------|-----------------|-----------|---------|----------|
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| Performed by | | | | | |
| Checked by | | | | Page | Revision |
| Date | 14/01/2024 | | | 1/2 | |

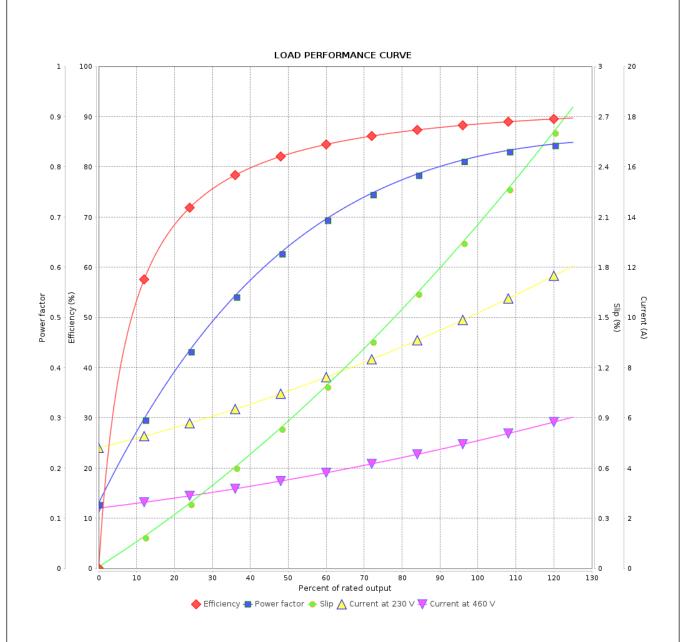
LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer

Product line : W22 Tru-Metric IE3 Three-Phase Product code : 11749853



| Performance | : 230/460 V 60 Hz 2P | | | | | | |
|--|---|--|-----------|---|----------|--|--|
| Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed | : 10.4/5.19 A : 10.0 : 0.824 kgfm : 300 % : 440 % : 3530 rpm | Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design | | : 0.0064 kgm² : S1 : F : 1.25 : 80 K : N | | | |
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| Performed by | | | | | | | |
| Checked by | | | | Page | Revision | | |

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14/01/2024

Date