



Dealers Industrial Equipment

No.:

Date: 23-SEP-2016

Customer :

TECHNICAL PROPOSAL

Three-phase induction motor - Squirrel cage rotor

Product line : Close Coupled Pump: Three-Phase - W01 (Rolled Steel) "JM" Type - TEFC -
NEMA Premium Efficiency
Catalog Number : 02036ET3E256JM-S
List Price : \$2,965

Notes:
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Dealers Industrial Equipment

No.:

Date: 23-SEP-2016

DATA SHEET Three-phase induction motor - Squirrel cage rotor

Customer :
 Product line : Close Coupled Pump: Three-Phase - W01 (Rolled Steel) "JM" Type - TEFC - NEMA Premium Efficiency

Frame : 254/6JM
 Output : 20 HP
 Frequency : 60 Hz
 Poles : 2
 Full load speed : 3515 rpm
 Slip : 2.36 %
 Voltage : 208-230/460 V
 Rated current : 50.2-45.4/22.7 A
 Locked rotor current : 300/150 A
 Locked rotor current (I_L/I_n) : 6.6
 No-load current : 13.8/6.88 A
 Full load torque : 29.5 lb.ft
 Locked rotor torque : 200 %
 Breakdown torque : 290 %
 Design : B
 Insulation class : F
 Temperature rise : 80 K
 Locked rotor time : 12 s (hot)
 Service factor : 1.15
 Duty cycle : S1
 Ambient temperature : -20°C - +40°C
 Altitude : 1000 m
 Degree of Protection : IP55
 Approximate weight : 211 lb
 Moment of inertia : 1.2207 sq.ft.lb
 Noise level : 75 dB(A)

| | D.E. | N.D.E. | Load | Power factor | Efficiency (%) |
|---------------------|-----------|-----------|------|--------------|----------------|
| Bearings | 6309 Z-C3 | 6208 Z-C3 | 100% | 0.91 | 91.0 |
| Regreasing interval | 15797 h | 20000 h | 75% | 0.88 | 91.0 |
| Grease amount | 13 g | 8 g | 50% | 0.81 | 90.0 |

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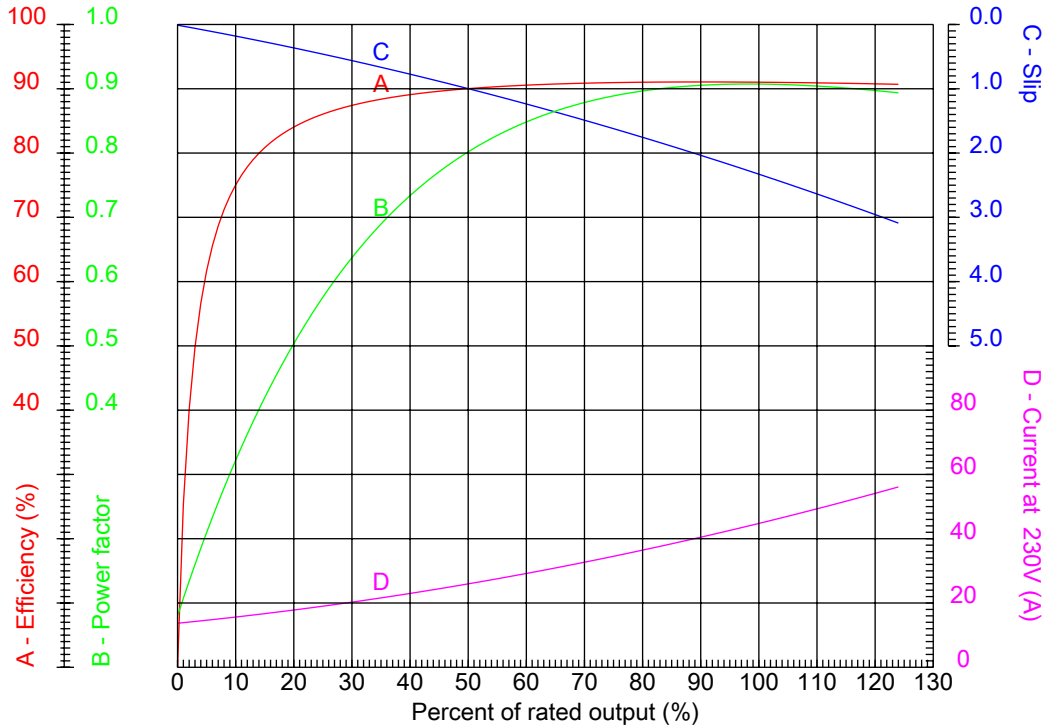
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No.:

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PERFORMANCE CURVES RELATED TO RATED OUTPUT

Three-phase induction motor - Squirrel cage rotor



Customer :
Product line : Close Coupled Pump: Three-Phase - W01 (Rolled Steel) "JM" Type - TEFC - NEMA Premium Efficiency

| | | | |
|------------------|--------------------|--|---------|
| Frame | : 254/6JM | Locked rotor current (I _l /I _n) | : 6.6 |
| Output | : 20 HP | Duty cycle | : S1 |
| Frequency | : 60 Hz | Service factor | : 1.15 |
| Full load speed | : 3515 rpm | Design | : B |
| Voltage | : 208-230/460 V | Locked rotor torque | : 200 % |
| Rated current | : 50.2-45.4/22.7 A | Breakdown torque | : 290 % |
| Insulation class | : F | | |

Notes:
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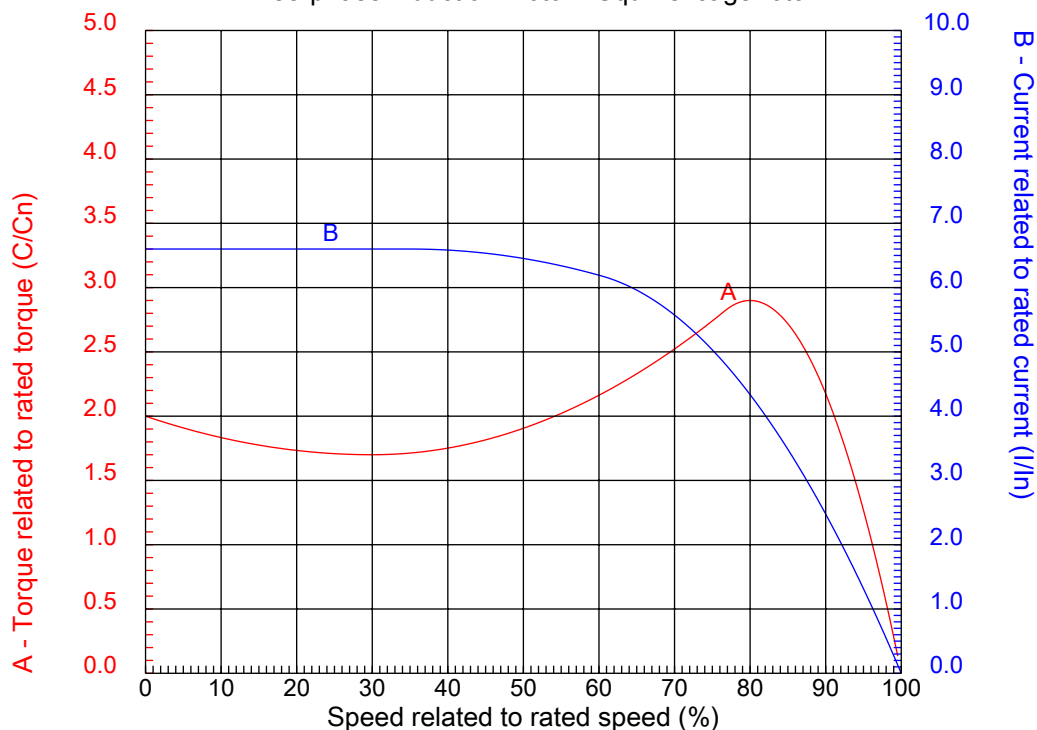
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CHARACTERISTIC CURVES RELATED TO SPEED

Three-phase induction motor - Squirrel cage rotor



Customer :
Product line : Close Coupled Pump: Three-Phase - W01 (Rolled Steel) "JM" Type - TEFC - NEMA Premium Efficiency

| | | | |
|------------------|--------------------|--|---------|
| Frame | : 254/6JM | Locked rotor current (I _l /I _n) | : 6.6 |
| Output | : 20 HP | Duty cycle | : S1 |
| Frequency | : 60 Hz | Service factor | : 1.15 |
| Full load speed | : 3515 rpm | Design | : B |
| Voltage | : 208-230/460 V | Locked rotor torque | : 200 % |
| Rated current | : 50.2-45.4/22.7 A | Breakdown torque | : 290 % |
| Insulation class | : F | | |

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1 2 3 4 5 6 7 8

A

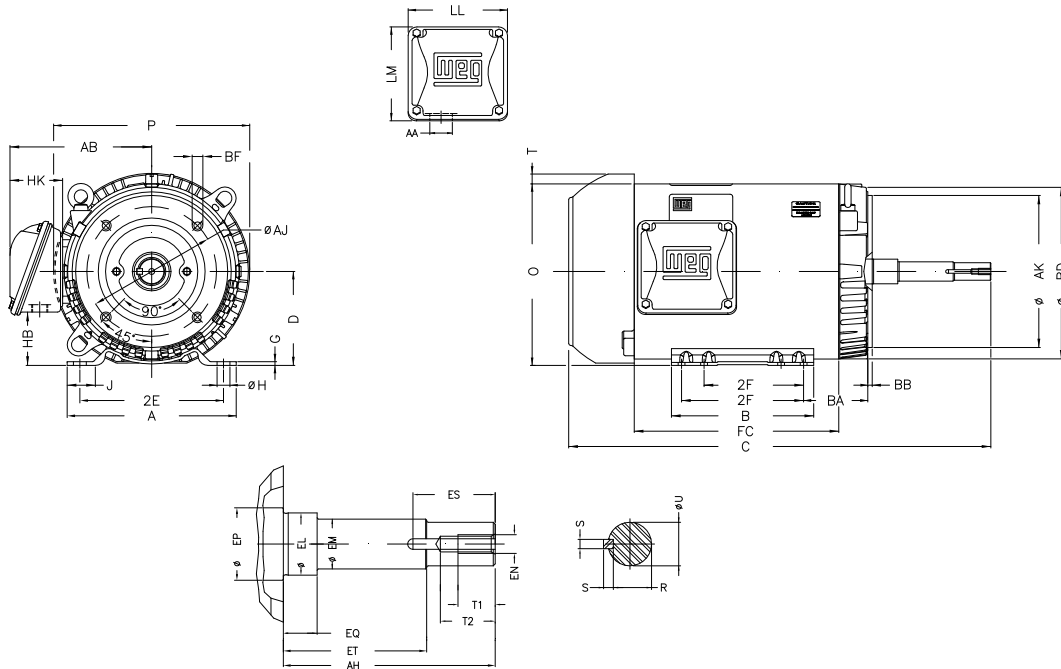
B

C

D

E

F



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| | | | | |
|--------------------|-------------------|------------------|--------------|-------------|
| 2E 10.000 | J 1.693 | A 11.417 | P 13.180 | AB 9.448 |
| 2F 8.252/10.000 | B 11.417 | BA 4.750 | D 6.250 | G 0.187 |
| O 12.010 | T 0.830 | H 0.530 | AA 1.732" | ER 5.250 |
| EQ 0.630 | ET 3.006 | U 1.249 | EM 1.375 | EL 1.750 |
| EP 1.769 | ES 2.559 | t1 1.024 | t2 1.496 | C 24.843 |
| CH 1.929 | FC 13.780 | Flange FC-184 | AJ 7.250 | AK 8.500 |
| BD 11.084 | BF UNC 1/2"x13 | BB 0.250 | AH 5.250 | |

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Customer:

Close Coupled Pump: Three-Phase - W01 (Rolled Steel) "JM" Type - TEFC -

Three-phase induction motor
Frame 254/6JM - IP55

23-SEP-2016

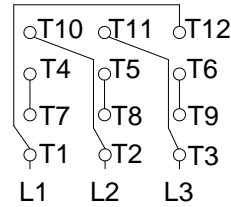
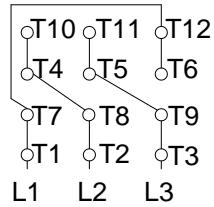


1 2 3 4 5 6 7 8

A
B
C
D
E
F

LOW VOLTAGE

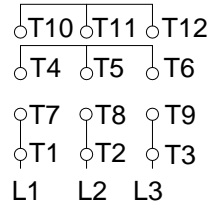
HIGH VOLTAGE



CONNECTIONS FOR STARTING ONLY:

LOW VOLTAGE

HIGH VOLTAGE



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Three-phase induction motor
Frame 254/6JM - IP55

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