



Dealers Industrial Equipment

No.:

Date: 12-SEP-2016

Customer :

TECHNICAL PROPOSAL

Three-phase induction motor - Squirrel cage rotor

Product line : Close Coupled Pump : Three-Phase - "JM" Type - ODP - High Efficiency

Catalog Number : -

List Price : \$-

Notes:

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Dealers Industrial Equipment

No.:

Date: 12-SEP-2016

DATA SHEET Three-phase induction motor - Squirrel cage rotor

Customer :
 Product line : Close Coupled Pump : Three-Phase - "JM" Type - ODP - High Efficiency

Frame : E143/5JM
 Output : 1 HP
 Frequency : 60 Hz
 Poles : 4
 Full load speed : 1740 rpm
 Slip : 3.33 %
 Voltage : 575 V
 Rated current : 1.20 A
 Locked rotor current : 9.36 A
 Locked rotor current (I_L/I_n) : 7.8
 No-load current : 0.800 A
 Full load torque : 2.98 lb.ft
 Locked rotor torque : 310 %
 Breakdown torque : 350 %
 Design : B
 Insulation class : F
 Temperature rise : 80 K
 Locked rotor time : 15 s (hot)
 Service factor : 1.15
 Duty cycle : S1
 Ambient temperature : -20°C - +40°C
 Altitude : 1000 m
 Degree of Protection : IP21
 Approximate weight : 35 lb
 Moment of inertia : 0.12458 sq.ft.lb
 Noise level : ---

| | D.E. | N.D.E. | Load | Power factor | Efficiency (%) |
|---------------------|---------|---------|------|--------------|----------------|
| Bearings | 6206 ZZ | 6204 ZZ | 100% | 0.76 | 82.5 |
| Regreasing interval | --- | --- | 75% | 0.68 | 81.5 |
| Grease amount | --- | --- | 50% | 0.57 | 80.0 |

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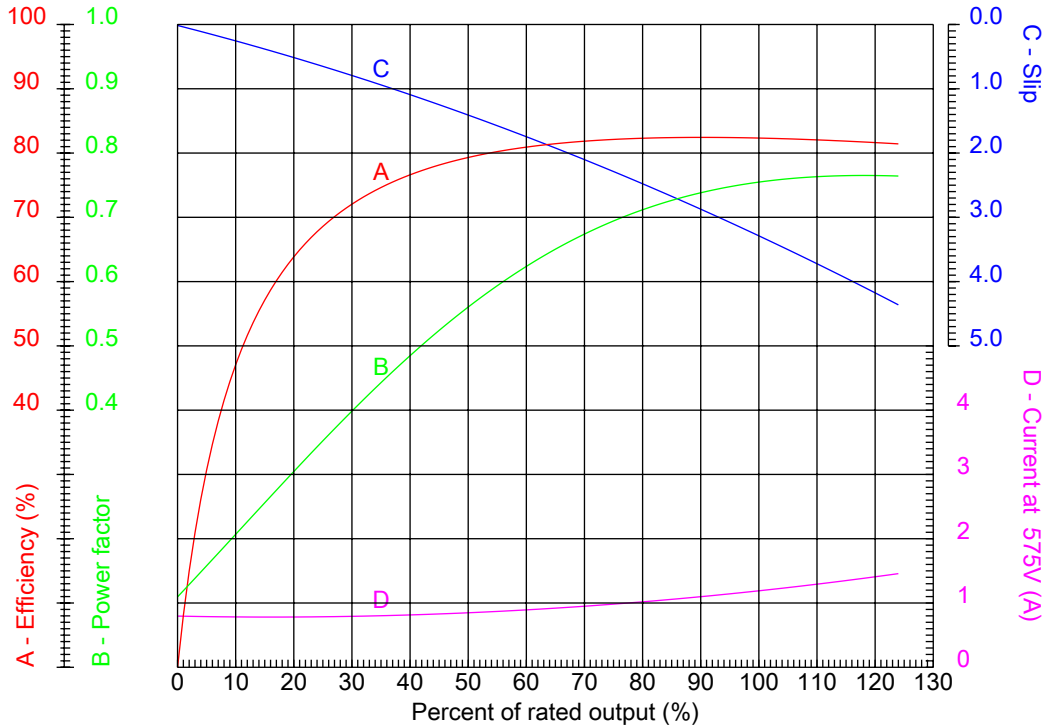
Dealers Industrial Equipment

No.:

Date: 12-SEP-2016

PERFORMANCE CURVES RELATED TO RATED OUTPUT

Three-phase induction motor - Squirrel cage rotor



Customer :
 Product line : Close Coupled Pump : Three-Phase - "JM" Type - ODP - High Efficiency

| | | | |
|------------------|------------|--|---------|
| Frame | : E143/5JM | Locked rotor current (I _l /I _n) | : 7.8 |
| Output | : 1 HP | Duty cycle | : S1 |
| Frequency | : 60 Hz | Service factor | : 1.15 |
| Full load speed | : 1740 rpm | Design | : B |
| Voltage | : 575 V | Locked rotor torque | : 310 % |
| Rated current | : 1.20 A | Breakdown torque | : 350 % |
| Insulation class | : F | | |

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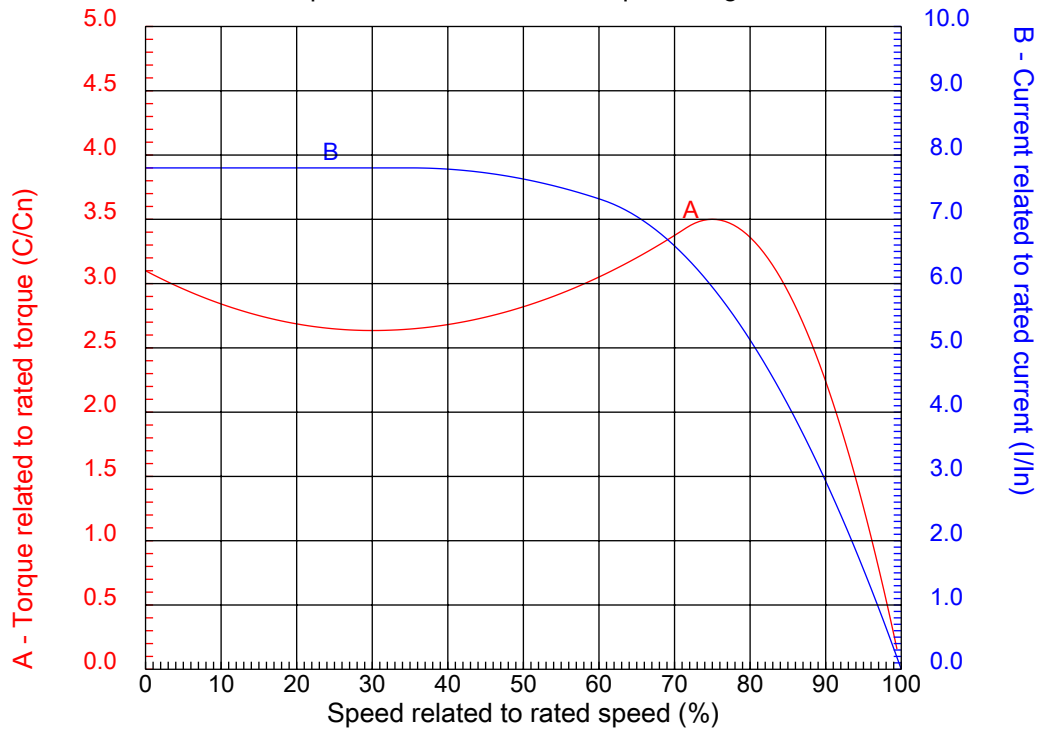
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CHARACTERISTIC CURVES RELATED TO SPEED

Three-phase induction motor - Squirrel cage rotor



Customer :
Product line : Close Coupled Pump : Three-Phase - "JM" Type - ODP - High Efficiency

| | | | |
|------------------|------------|--|---------|
| Frame | : E143/5JM | Locked rotor current (I _l /I _n) | : 7.8 |
| Output | : 1 HP | Duty cycle | : S1 |
| Frequency | : 60 Hz | Service factor | : 1.15 |
| Full load speed | : 1740 rpm | Design | : B |
| Voltage | : 575 V | Locked rotor torque | : 310 % |
| Rated current | : 1.20 A | Breakdown torque | : 350 % |
| Insulation class | : F | | |

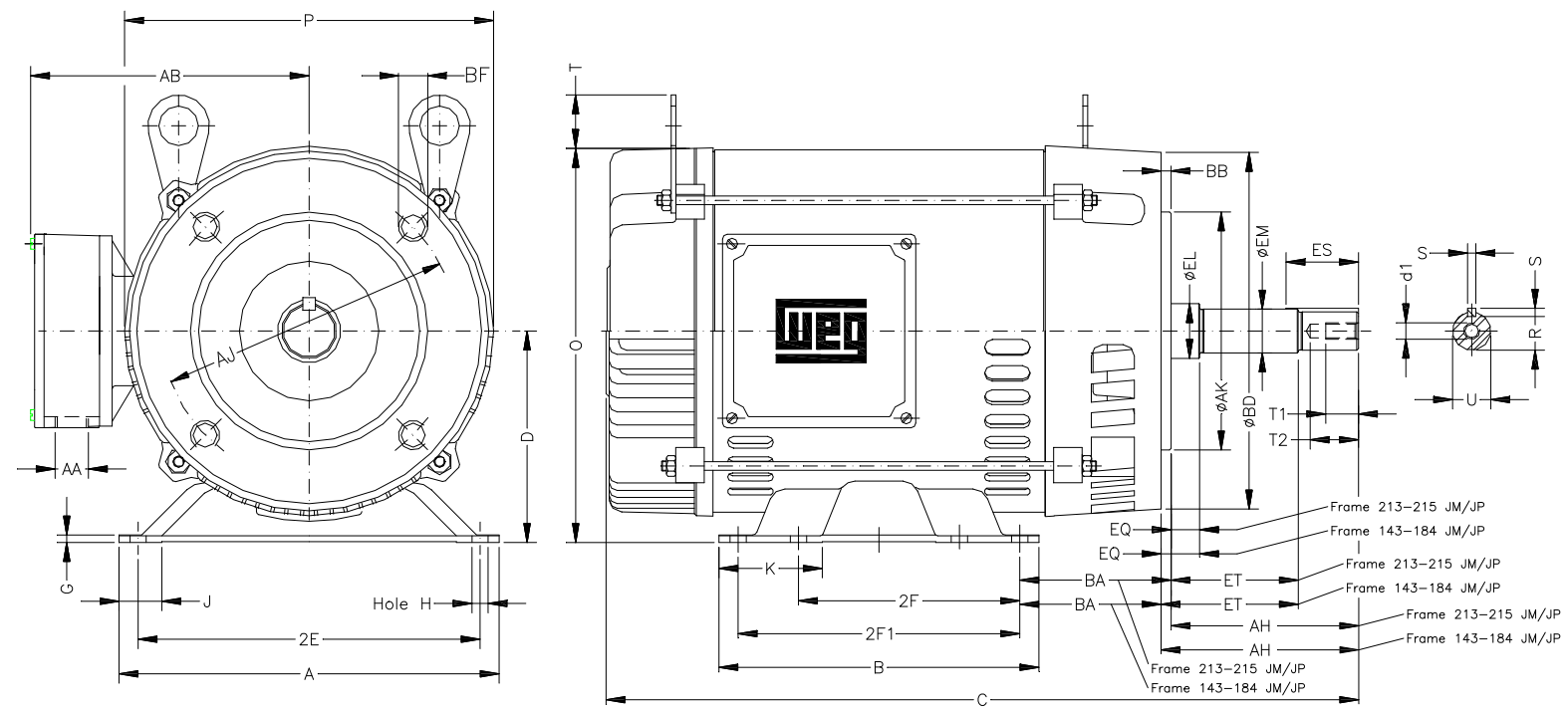
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1 2 3 4 5 6 7 8

A
B
C
D
E
F



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Customer:

Close Coupled Pump : Three-Phase - "JM" Type - ODP - High Efficiency

| | | | | |
|--------|--------|--------------|-------|-------|
| 2E | A | 2F | B | J |
| 5.500 | 6.535 | 0.157 | 0.256 | 1.732 |
| BA | D | G | O | P |
| 2.250 | 3.500 | 0.120 | 6.772 | 6.535 |
| AB | H | AA | AH | EQ |
| 5.433 | 0.342 | 2xNPT 1/2" | 4.258 | 0.630 |
| ET | U | EM | EL | S |
| 2.880 | 0.8744 | 1.000 | 1.156 | 0.187 |
| R | ES | d1 | t1 | t2 |
| 0.768 | 1.653 | DUNC 3/8"-16 | 0.748 | 1.102 |
| C | | | | |
| 14.055 | | | | |

Three-phase induction motor
Frame E143/5JM - IP21

12-SEP-2016

