



Dealers Industrial Equipment

No.:

Date: 13-SEP-2016

Customer :

TECHNICAL PROPOSAL

Three-phase induction motor - Squirrel cage rotor

Product line : Close Coupled Pump : Three-Phase - "JM" Type - ODP - NEMA Premium

Catalog Number : 00336OT3E145JM

List Price : \$660

Notes:

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Generated for Model #00336OT3E145JM

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No.:

Date: 13-SEP-2016

DATA SHEET Three-phase induction motor - Squirrel cage rotor

Customer :
 Product line : Close Coupled Pump : Three-Phase - "JM" Type - ODP - NEMA Premium

Frame : F143/5JM
 Output : 3 HP
 Frequency : 60 Hz
 Poles : 2
 Full load speed : 3430 rpm
 Slip : 4.72 %
 Voltage : 208-230/460 V
 Rated current : 7.80-7.00/3.50 A
 Locked rotor current : 59.5/29.8 A
 Locked rotor current (I_L/I_n) : 8.5
 No-load current : 2.60/1.30 A
 Full load torque : 4.53 lb.ft
 Locked rotor torque : 400 %
 Breakdown torque : 350 %
 Design : B
 Insulation class : F
 Temperature rise : 80 K
 Locked rotor time : 15 s (hot)
 Service factor : 1.15 (1.00 at 208V)
 Duty cycle : S1
 Ambient temperature : -20°C - +40°C
 Altitude : 1000 m
 Degree of Protection : IP21
 Approximate weight : 46 lb
 Moment of inertia : 0.07119 sq.ft.lb
 Noise level : ---

| | D.E. | N.D.E. |
|---------------------|---------|---------|
| Bearings | 6206 ZZ | 6204 ZZ |
| Regreasing interval | --- | --- |
| Grease amount | --- | --- |

| Load | Power factor | Efficiency (%) |
|------|--------------|----------------|
| 100% | 0.89 | 86.5 |
| 75% | 0.85 | 87.5 |
| 50% | 0.75 | 86.5 |

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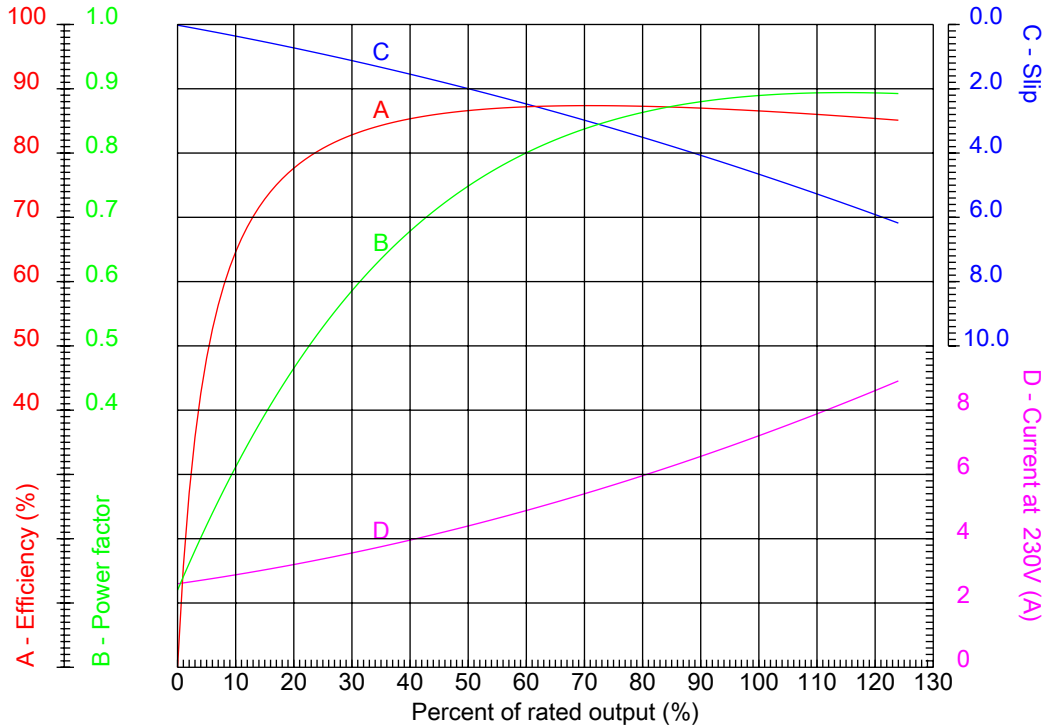
Dealers Industrial Equipment

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 - "JM" Type - ODP - NEMA Premium

| | | | |
|------------------|--------------------|--|-----------------------|
| Frame | : F143/5JM | Locked rotor current (I _l /I _n) | : 8.5 |
| Output | : 3 HP | Duty cycle | : S1 |
| Frequency | : 60 Hz | Service factor | : 1.15 (1.00 at 208V) |
| Full load speed | : 3430 rpm | Design | : B |
| Voltage | : 208-230/460 V | Locked rotor torque | : 400 % |
| Rated current | : 7.80-7.00/3.50 A | Breakdown torque | : 350 % |
| Insulation class | : F | | |

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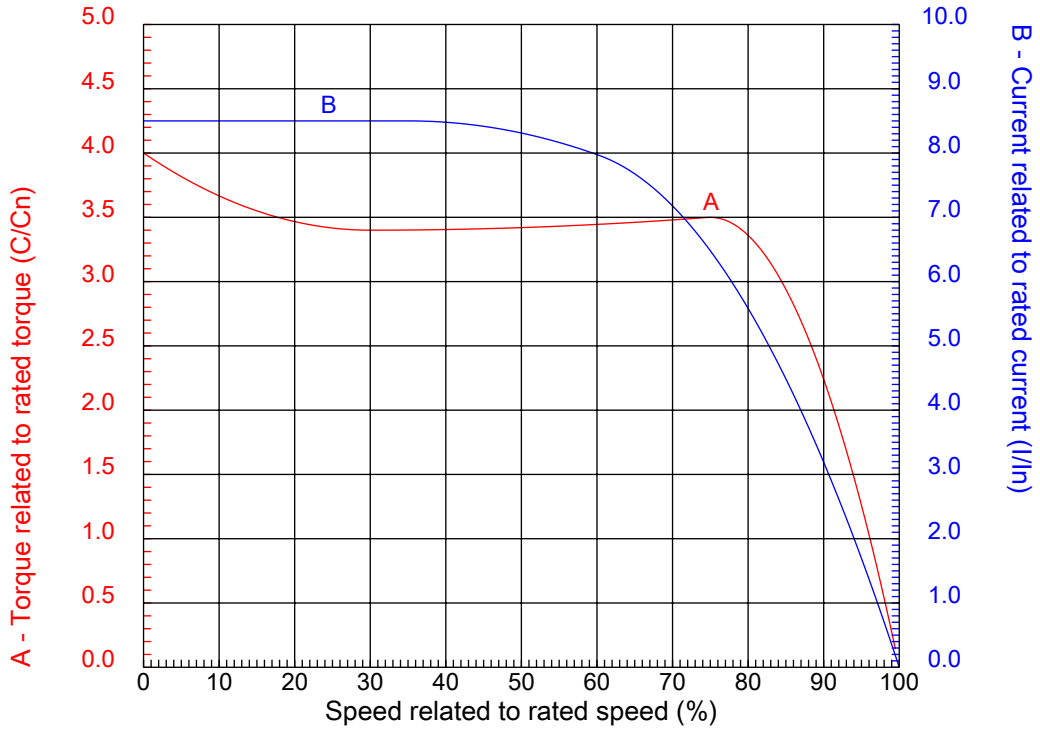
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CHARACTERISTIC CURVES RELATED TO SPEED

Three-phase induction motor - Squirrel cage rotor



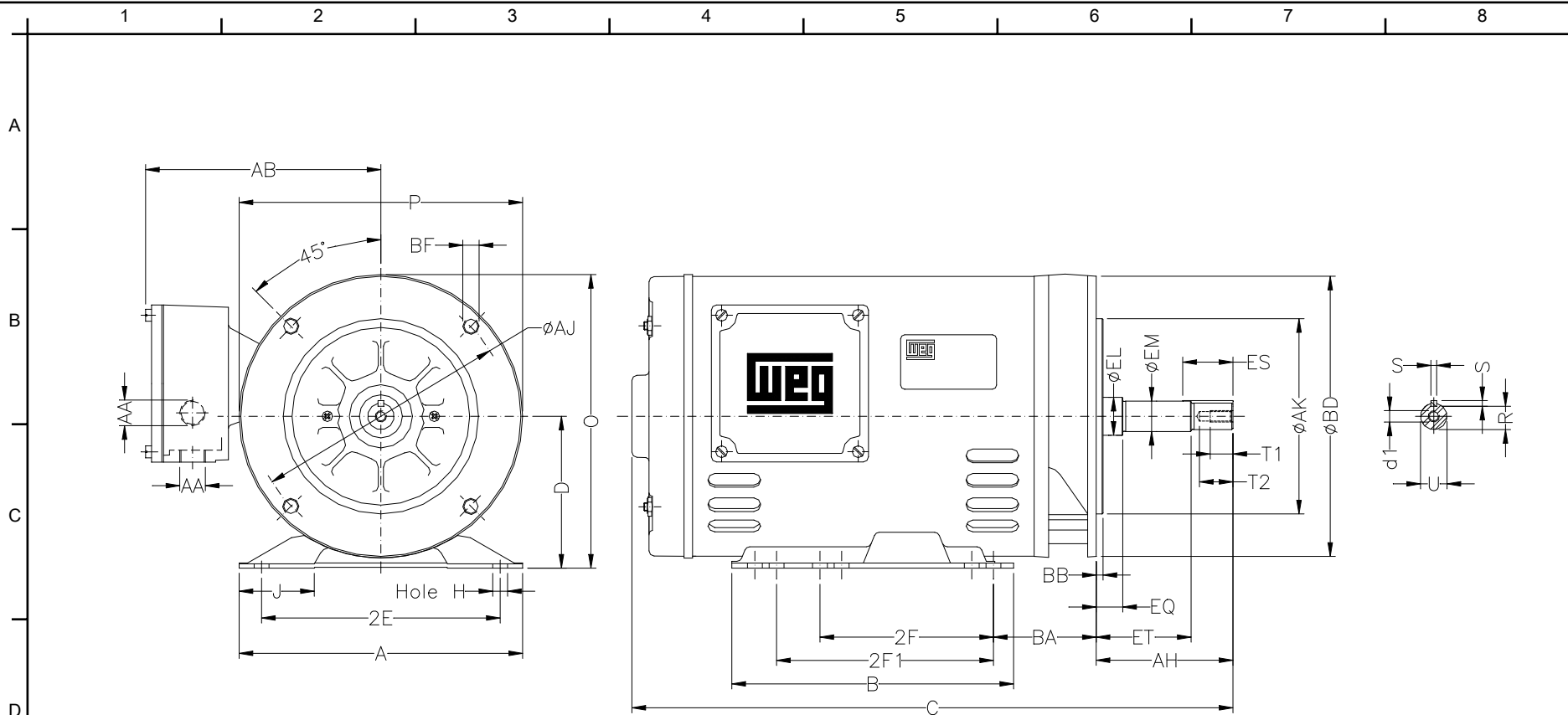
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 Product line : Close Coupled Pump : Three-Phase - "JM" Type - ODP - NEMA Premium

| | | | |
|------------------|--------------------|--|-----------------------|
| Frame | : F143/5JM | Locked rotor current (I _l /I _n) | : 8.5 |
| Output | : 3 HP | Duty cycle | : S1 |
| Frequency | : 60 Hz | Service factor | : 1.15 (1.00 at 208V) |
| Full load speed | : 3430 rpm | Design | : B |
| Voltage | : 208-230/460 V | Locked rotor torque | : 400 % |
| Rated current | : 7.80-7.00/3.50 A | Breakdown torque | : 350 % |
| Insulation class | : F | | |

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| | | | | |
|--------------------|------------------|----------------|-------------|-------------|
| 2E 5.500 | A 6.535 | 2F 4.000 | B 6.496 | J 1.732 |
| BA 2.250 | D 3.500 | G 0.120 | O 6.772 | P 6.535 |
| AB 5.433 | H 0.342 | AA NPT 1/2" | EQ 0.630 | ET 2.880 |
| U 22.21 | EM 1.000 | EL 1.156 | S 0.187 | R 0.768 |
| d1 DUNC 3/8"-16 | ES 1.654 | t1 0.748 | t2 1.102 | C 14.842 |
| CH 1.063 | Flange FC-149 | AJ 5.874 | AK 4.500 | BD 6.535 |
| BF UNC 3/8"x16 | BB 0.157 | AH 4.258 | | |

Performed by:
 Checked:
 Customer:
 Close Coupled Pump : Three-Phase - "JM" Type - ODP - NEMA Premium
 Three-phase induction motor
 Frame F143/5JM - IP21
 13-SEP-2016


1 2 3 4 5 6 7 8

A

LOW VOLTAGE

HIGH VOLTAGE

B



C



D

E

F

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Customer:

Close Coupled Pump : Three-Phase - "JM" Type - ODP - NEMA Premium

Three-phase induction motor
 Frame F143/5JM - IP21

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