



Dealers Industrial Equipment

No.:

Date: 12-SEP-2016

Customer :

TECHNICAL PROPOSAL

Three-phase induction motor - Squirrel cage rotor

Product line : Three-Phase : NEMA 56 Frames - ODP

Catalog Number : 00236OS3ED56CFL

List Price : \$355

Notes:

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DATA SHEET Three-phase induction motor - Squirrel cage rotor

Customer :
Product line : Three-Phase : NEMA 56 Frames - ODP

Frame : D56
Output : 2 HP
Frequency : 60 Hz
Poles : 2
Full load speed : 3460 rpm
Slip : 3.89 %
Voltage : 208-230/460 V
Rated current : 5.36/2.68 A
Locked rotor current : 43.4/21.7 A
Locked rotor current (I_L/I_n) : 8.1
No-load current : 2.58/1.29 A
Full load torque : 2.99 lb.ft
Locked rotor torque : 350 %
Breakdown torque : 340 %
Design : A
Insulation class : B
Temperature rise : 80 K
Locked rotor time : 10 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 : 37 lb
Moment of inertia : 0.04129 sq.ft.lb
Noise level : ---

| | D.E. | N.D.E. |
|---------------------|---------|---------|
| Bearings | 6204 ZZ | 6203 ZZ |
| Regreasing interval | --- | --- |
| Grease amount | --- | --- |

| Load | Power factor | Efficiency (%) |
|------|--------------|----------------|
| 100% | 0.87 | 81.0 |
| 75% | 0.80 | 80.5 |
| 50% | 0.68 | 78.0 |

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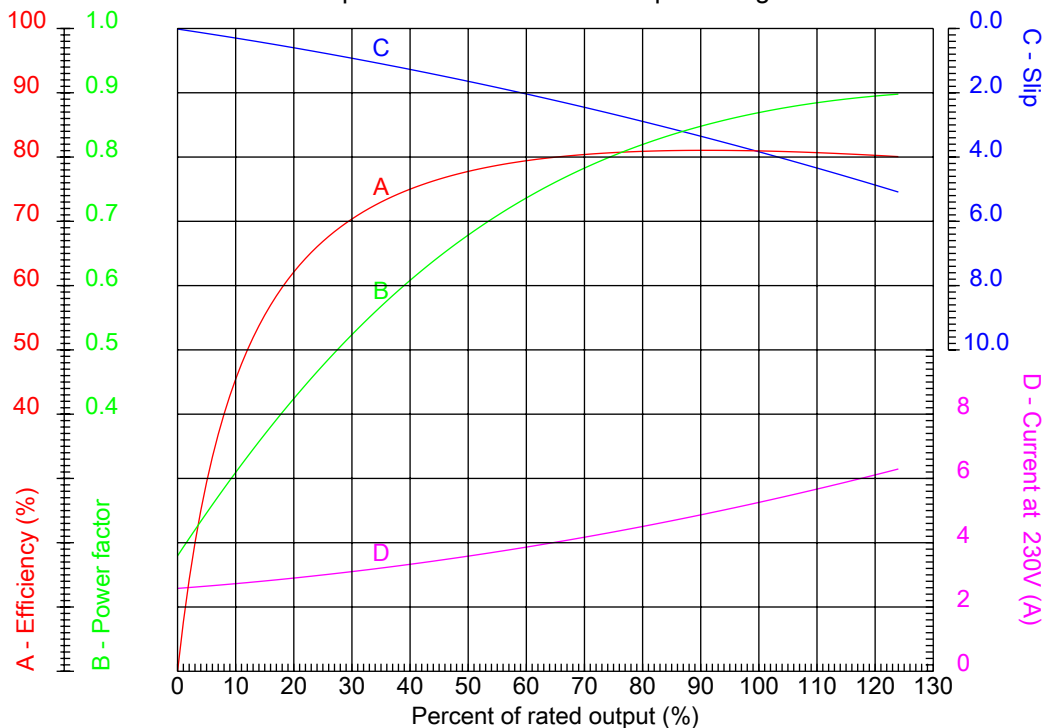
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PERFORMANCE CURVES RELATED TO RATED OUTPUT

Three-phase induction motor - Squirrel cage rotor



Customer :
Product line : Three-Phase : NEMA 56 Frames - ODP

| | |
|-----------------------------|--|
| Frame : D56 | Locked rotor current (I _L /I _n) : 8.1 |
| Output : 2 HP | Duty cycle : S1 |
| Frequency : 60 Hz | Service factor : 1.15 (1.00 at 208V) |
| Full load speed : 3460 rpm | Design : A |
| Voltage : 208-230/460 V | Locked rotor torque : 350 % |
| Rated current : 5.36/2.68 A | Breakdown torque : 340 % |
| Insulation class : B | |

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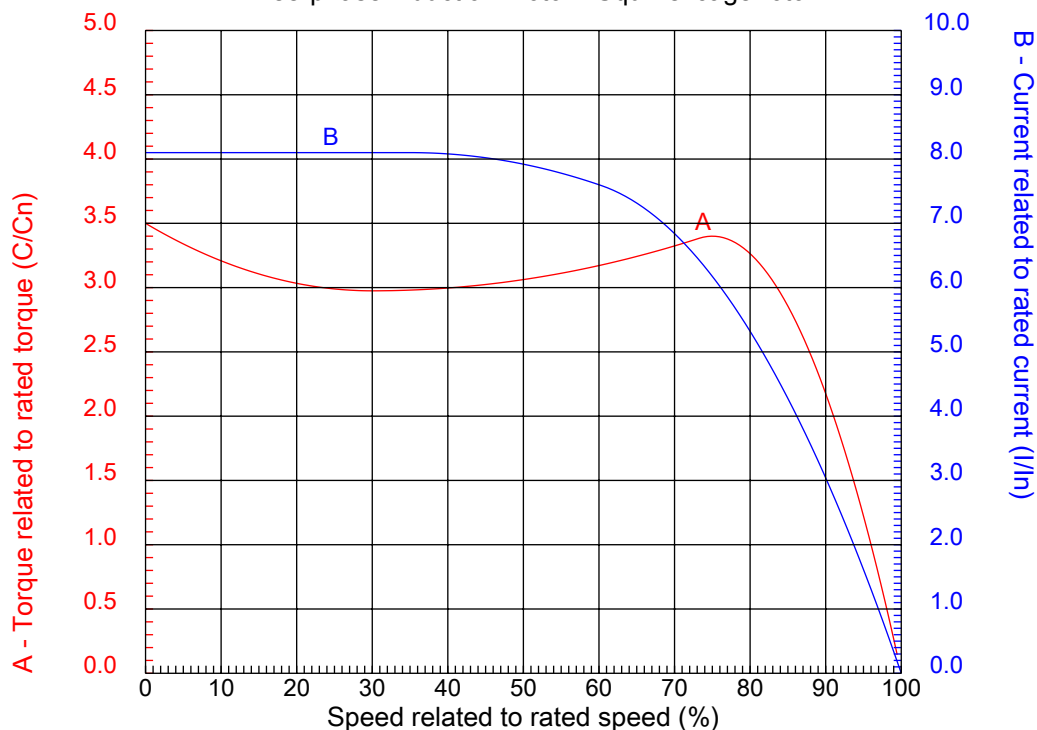
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CHARACTERISTIC CURVES RELATED TO SPEED

Three-phase induction motor - Squirrel cage rotor



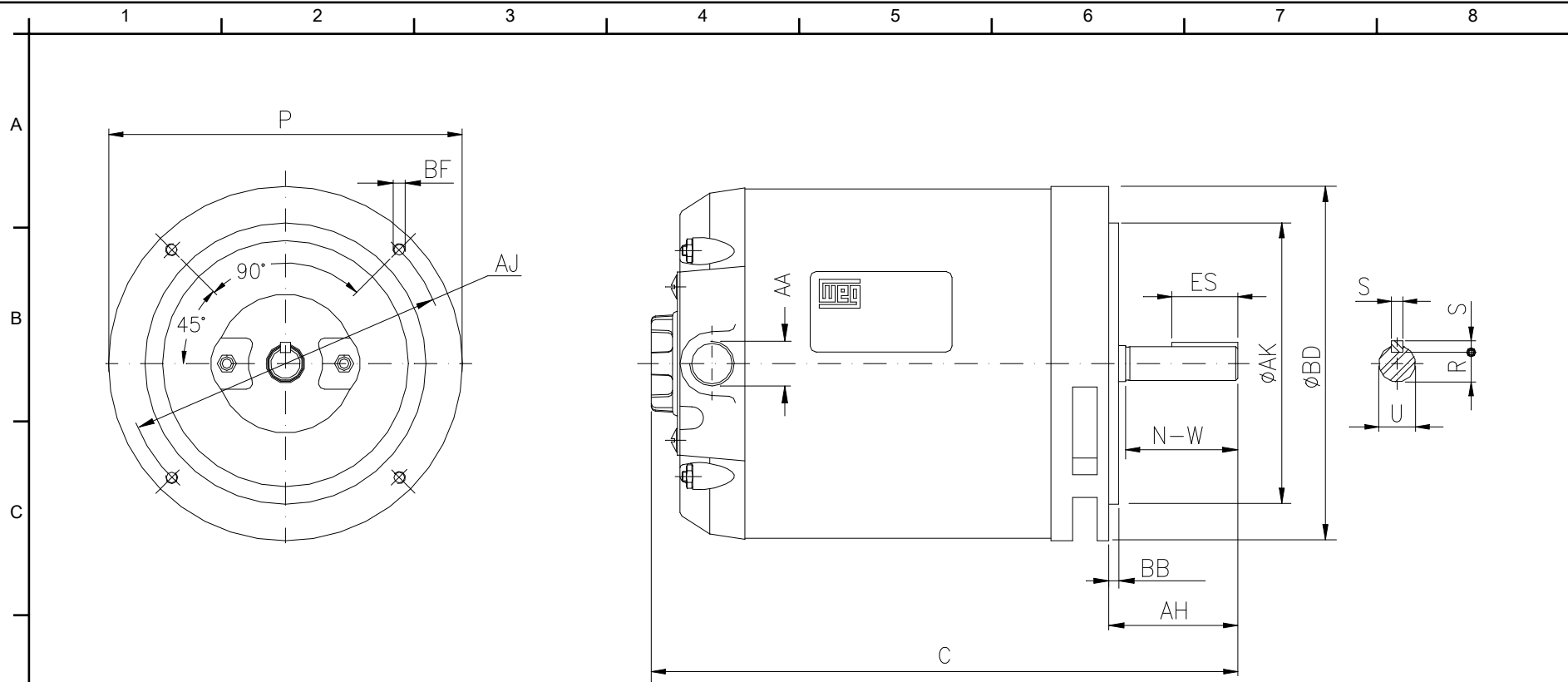
Customer :
Product line : Three-Phase : NEMA 56 Frames - ODP

| | | | |
|------------------|-----------------|--|-----------------------|
| Frame | : D56 | Locked rotor current (I _l /I _n) | : 8.1 |
| Output | : 2 HP | Duty cycle | : S1 |
| Frequency | : 60 Hz | Service factor | : 1.15 (1.00 at 208V) |
| Full load speed | : 3460 rpm | Design | : A |
| Voltage | : 208-230/460 V | Locked rotor torque | : 350 % |
| Rated current | : 5.36/2.68 A | Breakdown torque | : 340 % |
| Insulation class | : B | | |

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Customer:

Three-Phase : NEMA 56 Frames - ODP

| | | | | |
|--------|-------|--------|--------|----------------|
| P | ES | S | N-W | depth |
| 6.457 | 1.102 | 0.187 | 1.874 | 0.187 |
| U | R | d1 | C | AA |
| 0.6250 | 0.517 | A 3,15 | 12.283 | NPT 1/2" |
| Flange | AJ | AK | BD | BF |
| FC-149 | 5.874 | 4.500 | 6.500 | UNC 3/8"x16-2B |
| BB | | | | |
| 0.157 | | | | |

Three-phase induction motor
 Frame D56 - IP21

12-SEP-2016



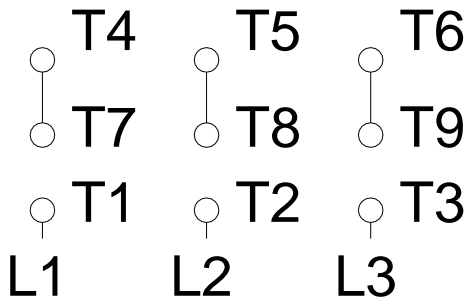
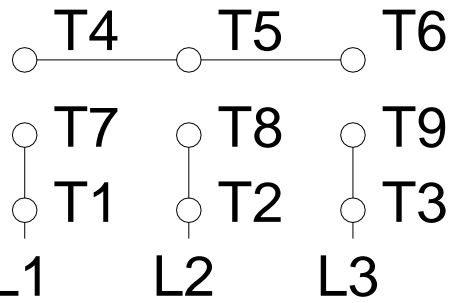
1 2 3 4 5 6 7 8

A

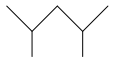
LOW VOLTAGE

HIGH VOLTAGE

B



C



D

E

F

| | | |
|--|-------------|--|
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| Checked: | | |
| Customer: | | |
| Three-Phase : NEMA 56 Frames - ODP | | |
| Three-phase induction motor Frame D56 - IP21 | 12-SEP-2016 | |