



No.:

Date: 28-DEC-2012

Customer :

TECHNICAL PROPOSAL

Single-phase induction motor - Squirrel cage rotor

Product line : Pool & Spa Motors : C-Face - Start Capacitor - Low Service Factor

Catalog Number : PCJ125

List Price : \$486

Notes:

Performed by:

Checked:



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DATA SHEET

Single-phase induction motor - Squirrel cage rotor

Customer :
Product line : Pool & Spa Motors : C-Face - Start Capacitor - Low Service Factor

Frame : M56J
Output : 2.5 HP
Frequency : 60 Hz
Poles : 2
Full load speed : 3450
Slip : 4.17 %
Voltage : 230 V
Rated current : 10.8 A
Locked rotor current : 63.7 A
Locked rotor current (I_L/I_n) : 5.9
No-load current : 4.00 A
Full load torque : 3.75 lb.ft
Locked rotor torque : 170 %
Breakdown torque : 210 %
Design : ---
Insulation class : B
Temperature rise : 80 K
Locked rotor time : 6 s (hot)
Service factor : 1.04
Duty cycle : S1
Ambient temperature : -20°C - +50°C
Altitude : 1000
Degree of Protection : IP21
Approximate weight : 33 lb
Moment of inertia : 0.04461 sq.ft.lb
Noise level : ---

| | D.E. | N.D.E. | Load | Power factor | Efficiency (%) |
|---------------------|----------|---------|------|--------------|----------------|
| Bearings | 6203 2RS | 6203 ZZ | 100% | 0.93 | 80.7 |
| Regreasing interval | --- | --- | 75% | 0.86 | 79.0 |
| Grease amount | --- | --- | 50% | 0.81 | 74.0 |

Notes:

Performed by

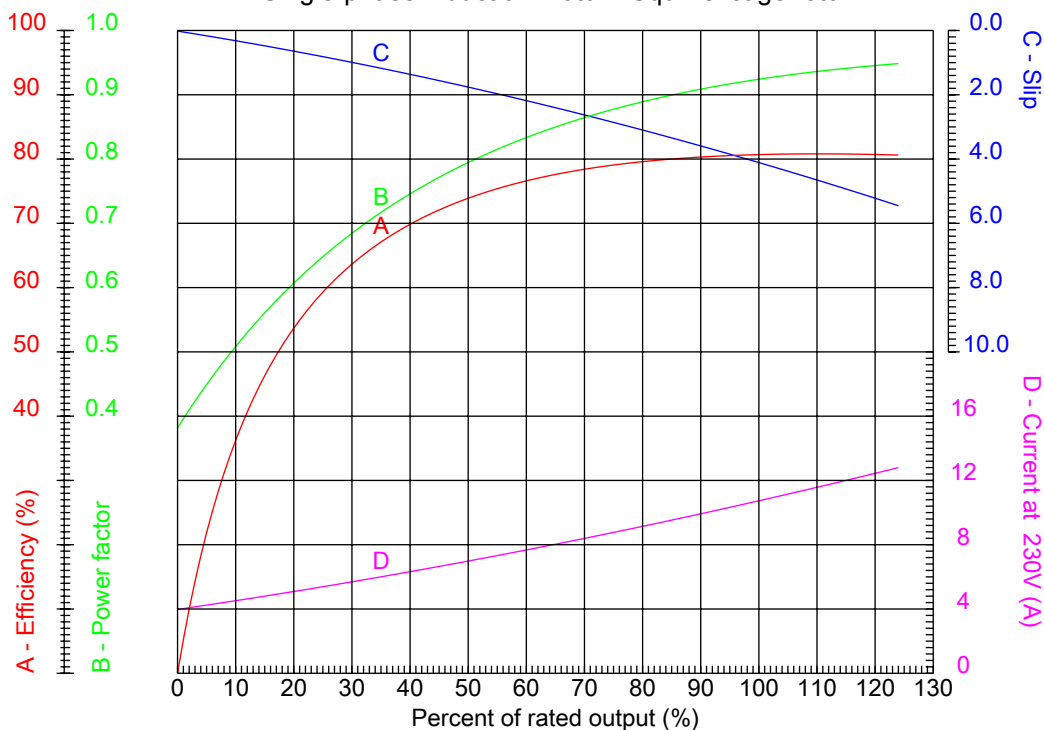
Checked



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PERFORMANCE CURVES RELATED TO RATED OUTPUT Single-phase induction motor - Squirrel cage rotor



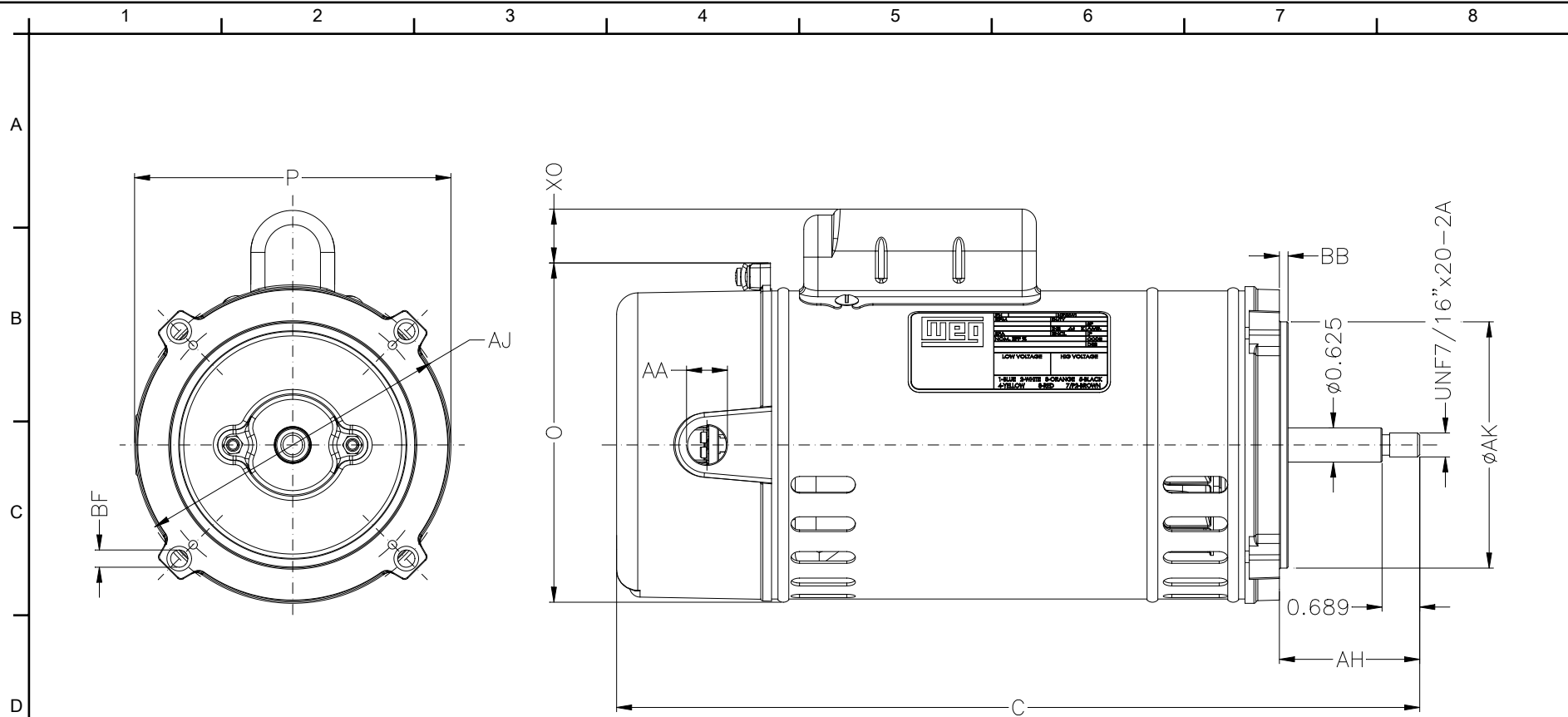
Customer :
Product line : Pool & Spa Motors : C-Face - Start Capacitor - Low Service Factor

| | | | |
|------------------|----------|--|---------|
| Frame | : M56J | Locked rotor current (I _l /I _n) | : 5.9 |
| Output | : 2.5 HP | Duty cycle | : S1 |
| Frequency | : 60 Hz | Service factor | : 1.04 |
| Full load speed | : 3450 | Design | : --- |
| Voltage | : 230 V | Locked rotor torque | : 170 % |
| Rated current | : 10.8 A | Breakdown torque | : 210 % |
| Insulation class | : B | | |

Notes:

Performed by

Checked



| | |
|---|-------------|
| Notes: | |
| Performed by: | |
| Checked: | |
| Customer: | |
| Pool & Spa Motors : C-Face - Start Capacitor - Low Service Factor | |
| Single-phase induction motor Frame M56J - IP21 | 28-DEC-2012 |

| | | | | |
|-------------|-------------|-------------------|------------------|-------------|
| P 6.535 | C 15.079 | AA NPT 1/2" | Flange FC-149 | AJ 5.874 |
| AK 4.500 | BD 6.535 | BF UNC 3/8"x16 | BB 0.157 | BC --- |
| AH 2.563 | | | | |

