



No.:

Date: 28-DEC-2012

Customer :

TECHNICAL PROPOSAL

Single-phase induction motor - Squirrel cage rotor

Product line : Pool & Spa Motors : Square Flange - Start Capacitor - High Service Factor

Catalog Number : PCQ107H

List Price : \$275

Notes:

Performed by:

Checked:



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DATA SHEET

Single-phase induction motor - Squirrel cage rotor

Customer :
 Product line : Pool & Spa Motors : Square Flange - Start Capacitor - High Service Factor

Frame : K48Y
 Output : 0.75 HP
 Frequency : 60 Hz
 Poles : 2
 Full load speed : 3510
 Slip : 2.50 %
 Voltage : 115/230 V
 Rated current : 11.2/5.60 A
 Locked rotor current : 70.6/35.3 A
 Locked rotor current (I_L/I_n) : 6.3
 No-load current : 8.30/4.15 A
 Full load torque : 1.11 lb.ft
 Locked rotor torque : 190 %
 Breakdown torque : 340 %
 Design : ---
 Insulation class : B
 Temperature rise : 80 K
 Locked rotor time : 6 s (hot)
 Service factor : 1.65
 Duty cycle : S1
 Ambient temperature : -20°C - +50°C
 Altitude : 1000
 Degree of Protection : IP21
 Approximate weight : 27 lb
 Moment of inertia : 0.02966 sq.ft.lb
 Noise level : ---

| | D.E. | N.D.E. | Load | Power factor | Efficiency (%) |
|---------------------|----------|---------|------|--------------|----------------|
| Bearings | 6203 2RS | 6203 ZZ | 100% | 0.66 | 65.8 |
| Regreasing interval | --- | --- | 75% | 0.58 | 63.0 |
| Grease amount | --- | --- | 50% | 0.48 | 54.0 |

Notes:

Performed by

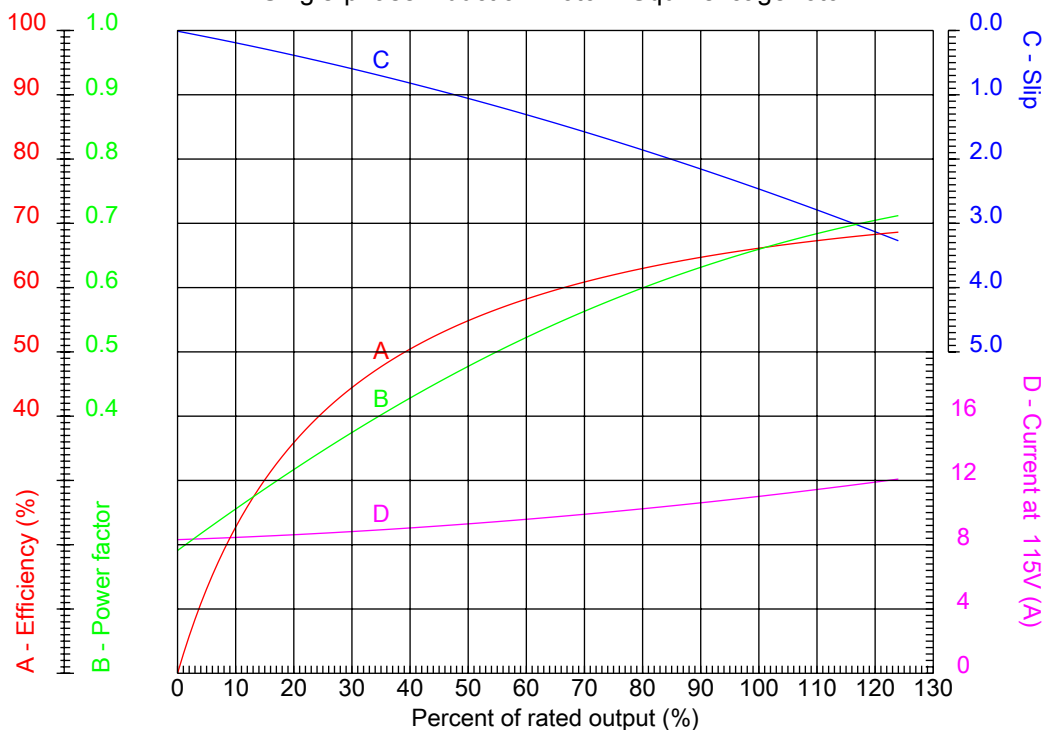
Checked



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



Customer :
Product line : Pool & Spa Motors : Square Flange - Start Capacitor - High Service Factor

| | | | |
|------------------|---------------|--|---------|
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| Rated current | : 11.2/5.60 A | Breakdown torque | : 340 % |
| Insulation class | : B | | |

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