



Dealers Industrial Equipment

No.:

Date: 12-SEP-2016

Customer :

TECHNICAL PROPOSAL

Three-phase induction motor - Squirrel cage rotor

Product line : Three-Phase: W01 (Rolled Steel) - TEFC - Premium Efficiency (DOE)

Catalog Number : 00158ET3E56CFL-S

List Price : \$463

Notes:

Downloaded from <http://dealerselectric.com>

Generated for Model #00158ET3E56CFL-S

Performed by:

Checked:



Dealers Industrial Equipment

No.:

Date: 12-SEP-2016

DATA SHEET Three-phase induction motor - Squirrel cage rotor

Customer :
Product line : Three-Phase: W01 (Rolled Steel) - TEFC - Premium Efficiency (DOE)

Frame : 56
Output : 1.5 HP
Frequency : 60 Hz
Poles : 4
Full load speed : 1750 rpm
Slip : 2.78 %
Voltage : 208-230/460 V
Rated current : 4.47-4.04/2.02 A
Locked rotor current : 33.1/16.6 A
Locked rotor current (I_L/I_n) : 8.2
No-load current : 2.17/1.08 A
Full load torque : 4.44 lb.ft
Locked rotor torque : 270 %
Breakdown torque : 300 %
Design : B
Insulation class : F
Temperature rise : 80 K
Locked rotor time : 21 s (hot)
Service factor : 1.15
Duty cycle : S1
Ambient temperature : -20°C - +40°C
Altitude : 1000 m
Degree of Protection : IP55
Approximate weight : 38 lb
Moment of inertia : 0.11011 sq.ft.lb
Noise level : 52 dB(A)

| | D.E. | N.D.E. |
|---------------------|---------|---------|
| Bearings | 6204 ZZ | 6202 ZZ |
| Regreasing interval | --- | --- |
| Grease amount | --- | --- |

| Load | Power factor | Efficiency (%) |
|------|--------------|----------------|
| 100% | 0.79 | 86.5 |
| 75% | 0.72 | 86.5 |
| 50% | 0.59 | 85.5 |

Notes:
Downloaded from <http://dealerselectric.com>
Generated for Model #00158ET3E56CFL-S

Performed by

Checked



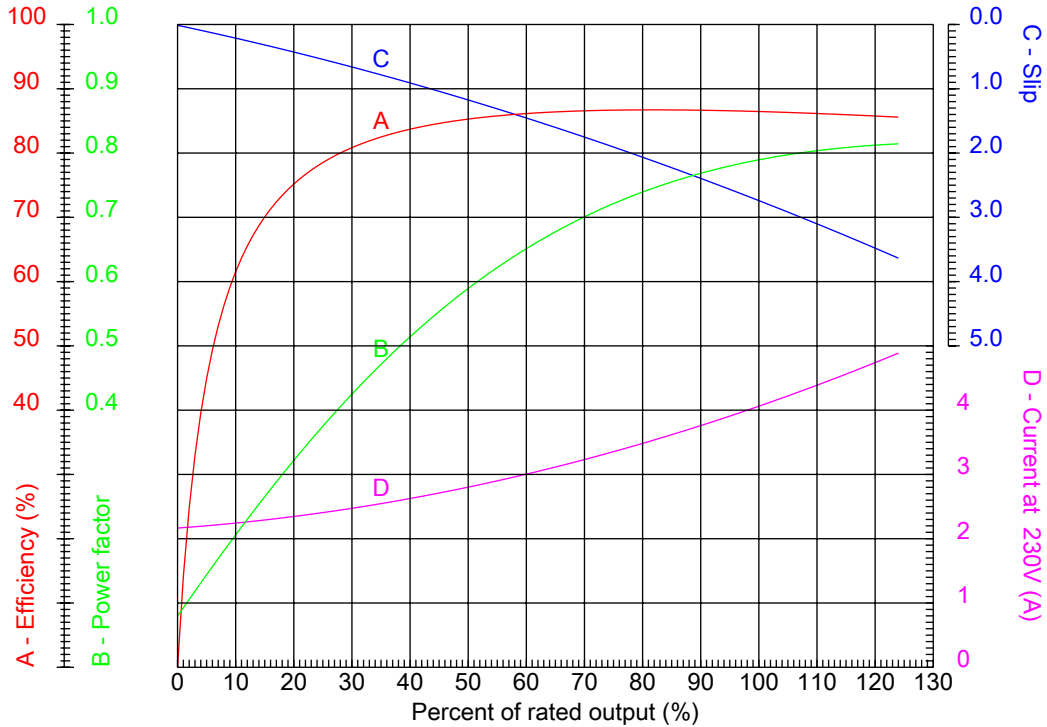
Dealers Industrial Equipment

No.:

Date: 12-SEP-2016

PERFORMANCE CURVES RELATED TO RATED OUTPUT

Three-phase induction motor - Squirrel cage rotor



Customer :
 Product line : Three-Phase: W01 (Rolled Steel) - TEFC - Premium Efficiency (DOE)

| | |
|----------------------------------|--|
| Frame : 56 | Locked rotor current (I _L /I _n) : 8.2 |
| Output : 1.5 HP | Duty cycle : S1 |
| Frequency : 60 Hz | Service factor : 1.15 |
| Full load speed : 1750 rpm | Design : B |
| Voltage : 208-230/460 V | Locked rotor torque : 270 % |
| Rated current : 4.47-4.04/2.02 A | Breakdown torque : 300 % |
| Insulation class : F | |

Notes:
 Downloaded from <http://dealerselectric.com>
 Generated for Model #00158ET3E56CFL-S

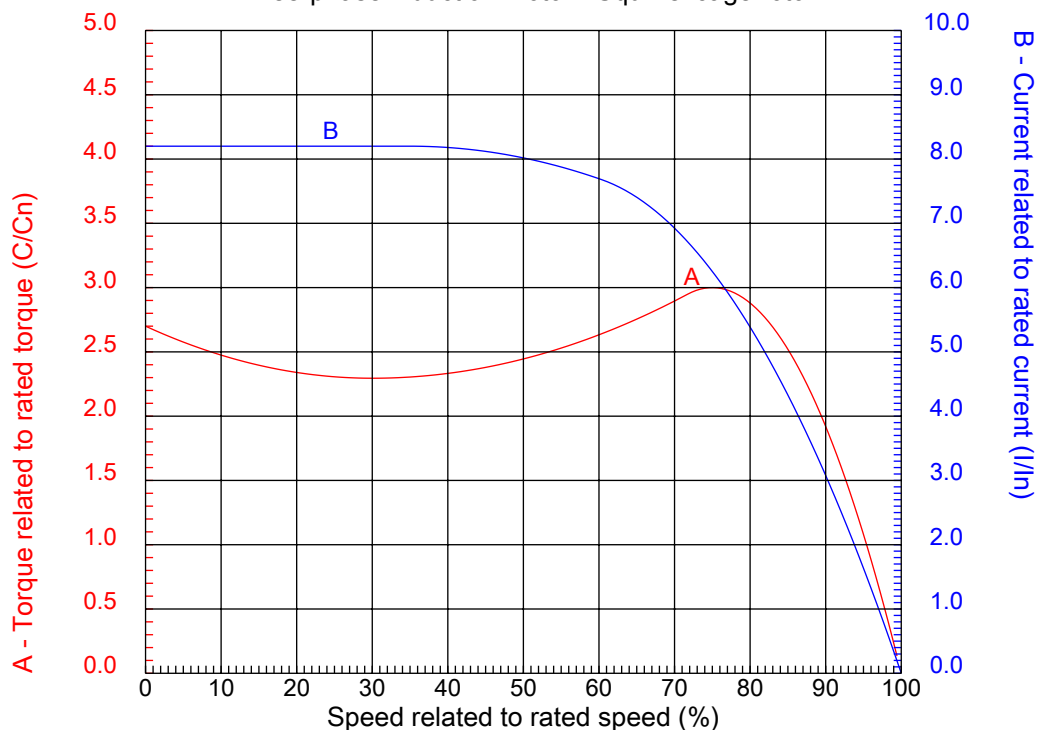
Performed by

Checked



CHARACTERISTIC CURVES RELATED TO SPEED

Three-phase induction motor - Squirrel cage rotor



Customer :
Product line : Three-Phase: W01 (Rolled Steel) - TEFC - Premium Efficiency (DOE)

| | | | |
|------------------|--------------------|--|---------|
| Frame | : 56 | Locked rotor current (I _l /I _n) | : 8.2 |
| Output | : 1.5 HP | Duty cycle | : S1 |
| Frequency | : 60 Hz | Service factor | : 1.15 |
| Full load speed | : 1750 rpm | Design | : B |
| Voltage | : 208-230/460 V | Locked rotor torque | : 270 % |
| Rated current | : 4.47-4.04/2.02 A | Breakdown torque | : 300 % |
| Insulation class | : F | | |

Notes:
Downloaded from <http://dealerselectric.com>
Generated for Model #00158ET3E56CFL-S

Performed by

Checked

1 2 3 4 5 6 7 8

A

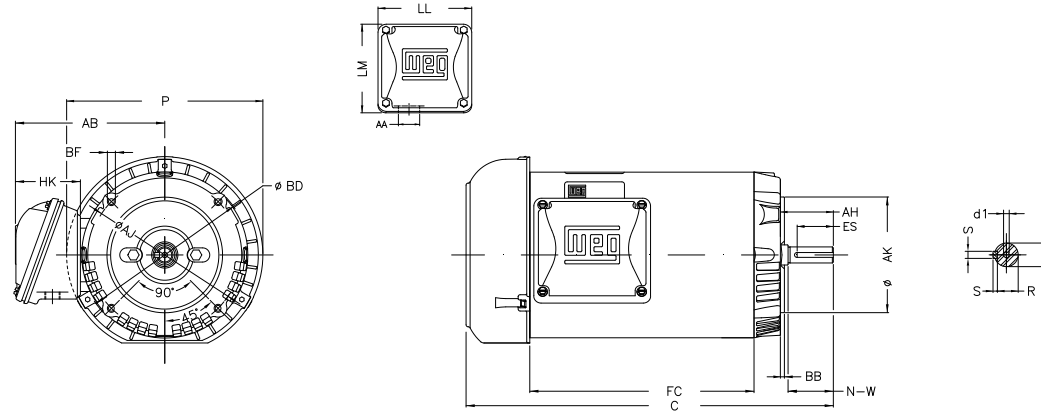
B

C

D

E

F



Notes: Downloaded from <http://dealerselectric.com>
Generated for Model #00158ET3E56CFL-S

Performed by:

Checked:

Customer:

Three-Phase: W01 (Rolled Steel) - TEFC - Premium Efficiency (DOE)

| | | | | |
|--------|-------|--------|-------|----------------|
| P | AB | HK | FC | C |
| 7.638 | 5.882 | 2.638 | 7.874 | 13.504 |
| N-W | ES | d1 | S | U |
| 1.874 | 1.417 | A 3.15 | 0.187 | 0.625 |
| AA | depth | R | LL | LM |
| 0.881" | 0.187 | 0.517 | 4.543 | 4.106 |
| Flange | AJ | AK | BD | BF |
| FC-149 | 5.874 | 4.500 | 6.450 | UNC 3/8"x16-2B |
| BB | AH | | | |
| 0.157 | 2.062 | | | |

Three-phase induction motor
Frame 56 - IP55

12-SEP-2016

