



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 - NEMA Premium Efficiency

Catalog Number : 00236ET3H145TC-S

List Price : \$539

Notes:

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DATA SHEET

Three-phase induction motor - Squirrel cage rotor

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

Frame : 143/5T
 Output : 2 HP
 Frequency : 60 Hz
 Poles : 2
 Full load speed : 3520 rpm
 Slip : 2.22 %
 Voltage : 575 V
 Rated current : 1.98 A
 Locked rotor current : 19.6 A
 Locked rotor current (I_L/I_n) : 9.9
 No-load current : 0.850 A
 Full load torque : 2.94 lb.ft
 Locked rotor torque : 250 %
 Breakdown torque : 300 %
 Design : B
 Insulation class : F
 Temperature rise : 80 K
 Locked rotor time : 13 s (hot)
 Service factor : 1.15
 Duty cycle : S1
 Ambient temperature : -20°C - +40°C
 Altitude : 1000 m
 Degree of Protection : IP55
 Approximate weight : 40 lb
 Moment of inertia : 0.12790 sq.ft.lb
 Noise level : 68 dB(A)

	D.E.	N.D.E.
Bearings	6205 ZZ	6203 ZZ
Regreasing interval	---	---
Grease amount	---	---

Load	Power factor	Efficiency (%)
100%	0.89	85.5
75%	0.83	85.5
50%	0.73	82.5

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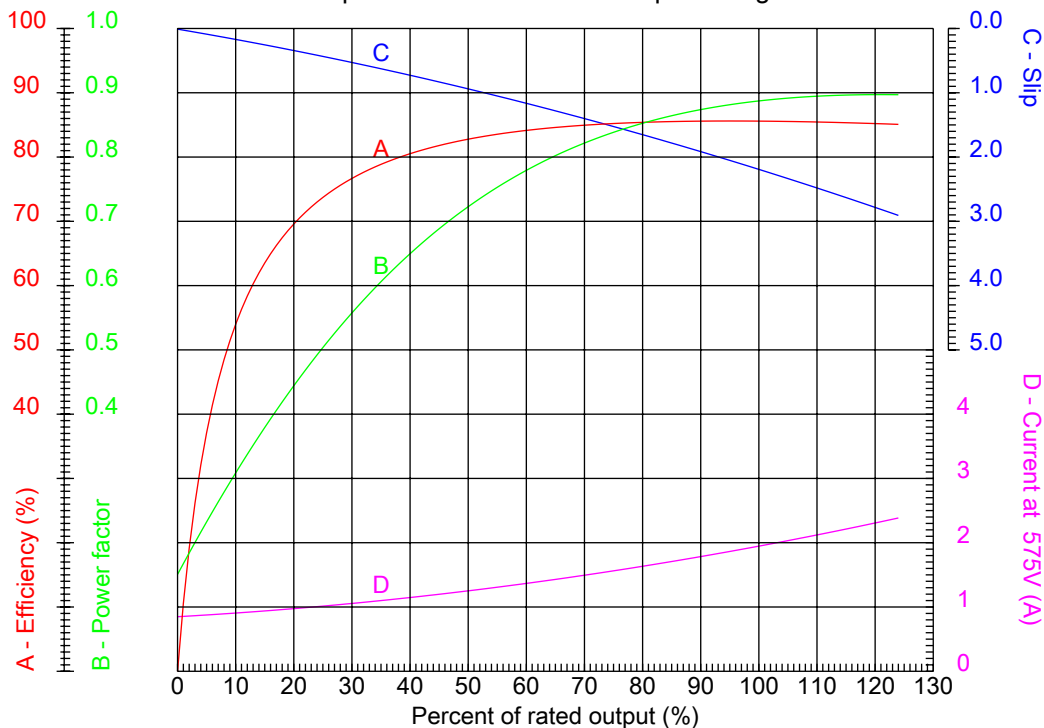


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PERFORMANCE CURVES RELATED TO RATED OUTPUT Three-phase induction motor - Squirrel cage rotor



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

Frame	: 143/5T	Locked rotor current (I _l /I _n)	: 9.9
Output	: 2 HP	Duty cycle	: S1
Frequency	: 60 Hz	Service factor	: 1.15
Full load speed	: 3520 rpm	Design	: B
Voltage	: 575 V	Locked rotor torque	: 250 %
Rated current	: 1.98 A	Breakdown torque	: 300 %
Insulation class	: F		

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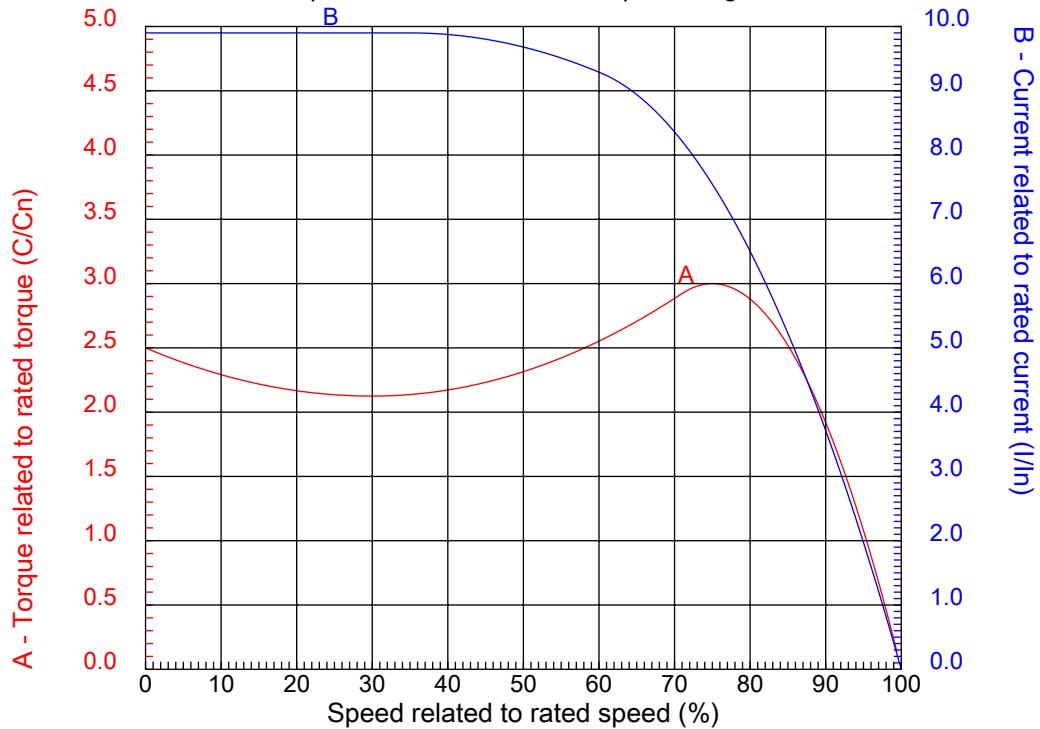
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CHARACTERISTIC CURVES RELATED TO SPEED

Three-phase induction motor - Squirrel cage rotor



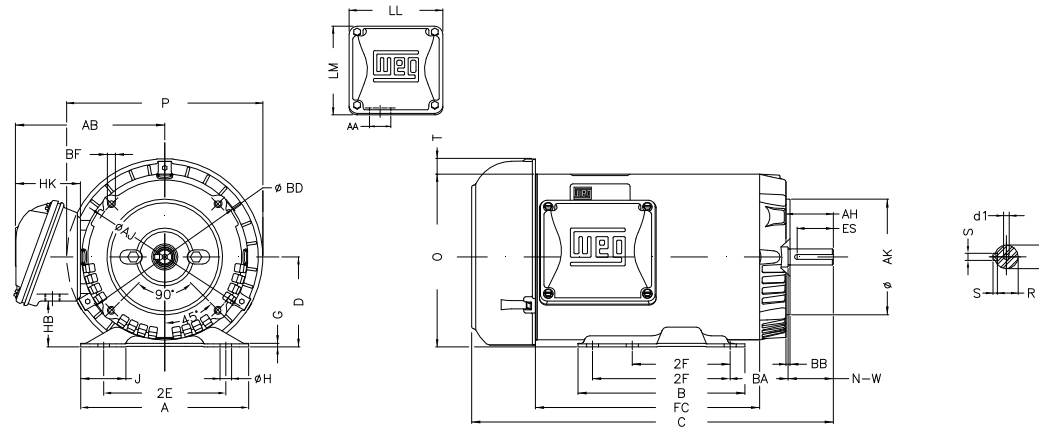
Customer :
Product line : Three Phase: W01 (Rolled Steel) - TEFC - NEMA Premium Efficiency

Frame	: 143/5T	Locked rotor current (I _l /I _n)	: 9.9
Output	: 2 HP	Duty cycle	: S1
Frequency	: 60 Hz	Service factor	: 1.15
Full load speed	: 3520 rpm	Design	: B
Voltage	: 575 V	Locked rotor torque	: 250 %
Rated current	: 1.98 A	Breakdown torque	: 300 %
Insulation class	: F		

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P	AB	J	2E	A
7.638	5.882	1.732	5.500	6.535
H	G	HB	HK	T
0.343	0.120	1.783	2.638	0.603
O	FC	2F	B	C
6.724	8.268	4.000/5.000	6.496	13.976
BA	N-W	ES	d1	S
2.750	2.250	1.417	A 3.15	0.187
U	AA	depth	R	LL
0.875	1.118"	0.187	0.771	4.543
LM	D	CH	Flange	AJ
4.106	3.500	1.377	FC-149	5.874
AK	BD	BF	BB	AH
4.500	6.450	UNC 3/8"x16	0.157	2.132

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Checked:

Customer:

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

Three-phase induction motor
Frame 143/5T - IP55

12-SEP-2016



1 2 3 4 5 6 7 8

A
B
C
D
E
F

RUN



ONLY FOR START



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Checked:		
Customer:		
Three Phase: W01 (Rolled Steel) - TEFC - NEMA Premium Efficiency		
Three-phase induction motor Frame 143/5T - IP55	12-SEP-2016	