



Dealers Industrial Equipment

No.:

Date: 12-SEP-2016

Customer :

TECHNICAL PROPOSAL

Three-phase induction motor - Squirrel cage rotor

Product line : W22 NEMA Premium - Ball Bearings

Catalog Number : 00118ET3ER143TC-W22

List Price : \$572

Notes:

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Dealers Industrial Equipment

No.:

Date: 12-SEP-2016

DATA SHEET Three-phase induction motor - Squirrel cage rotor

Customer :
 Product line : W22 NEMA Premium - Ball Bearings

Frame : 143T
 Output : 1 HP
 Frequency : 60 Hz
 Poles : 4
 Full load speed : 1760 rpm
 Slip : 2.22 %
 Voltage : 208-230/460 V
 Rated current : 3.07-2.94/1.47 A
 Locked rotor current : 24.7/12.3 A
 Locked rotor current (I_L/I_n) : 8.4
 No-load current : 1.88/0.940 A
 Full load torque : 2.94 lb.ft
 Locked rotor torque : 320 %
 Breakdown torque : 350 %
 Design : B
 Insulation class : F
 Temperature rise : 80 K
 Locked rotor time : 18 s (hot)
 Service factor : 1.25
 Duty cycle : S1
 Ambient temperature : -20°C - +40°C
 Altitude : 1000 m
 Degree of Protection : IP55
 Approximate weight : 41 lb
 Moment of inertia : 0.11723 sq.ft.lb
 Noise level : 51 dB(A)

	D.E.	N.D.E.
Bearings	6205 ZZ	6204 ZZ
Regreasing interval	---	---
Grease amount	---	---

Load	Power factor	Efficiency (%)
100%	0.75	85.5
75%	0.68	84.0
50%	0.55	80.0

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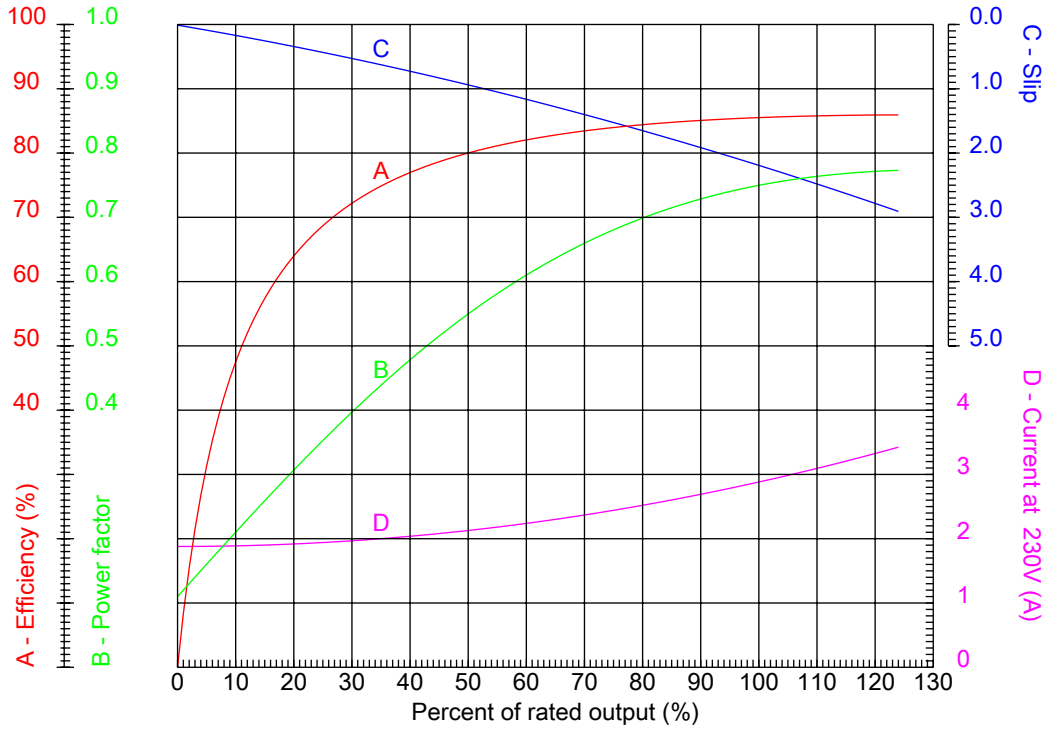
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No.:

Date: 12-SEP-2016

PERFORMANCE CURVES RELATED TO RATED OUTPUT

Three-phase induction motor - Squirrel cage rotor



Customer :
 Product line : W22 NEMA Premium - Ball Bearings

Frame : 143T	Locked rotor current (I _L /I _n) : 8.4
Output : 1 HP	Duty cycle : S1
Frequency : 60 Hz	Service factor : 1.25
Full load speed : 1760 rpm	Design : B
Voltage : 208-230/460 V	Locked rotor torque : 320 %
Rated current : 3.07-2.94/1.47 A	Breakdown torque : 350 %
Insulation class : F	

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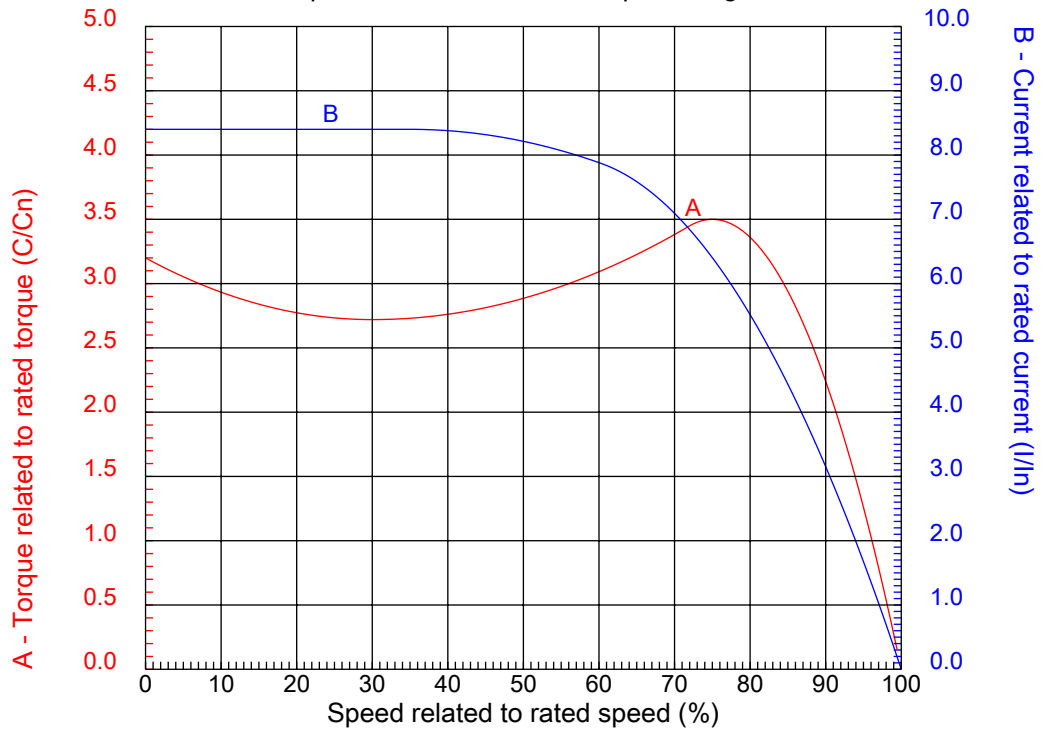
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CHARACTERISTIC CURVES RELATED TO SPEED

Three-phase induction motor - Squirrel cage rotor



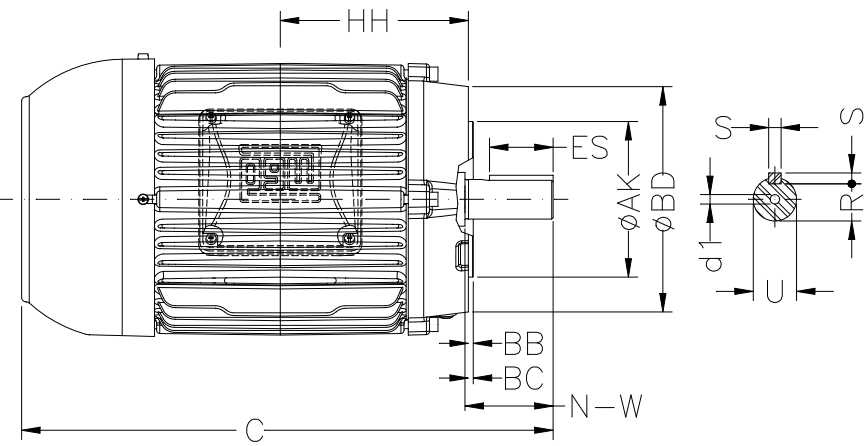
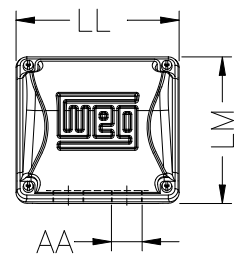
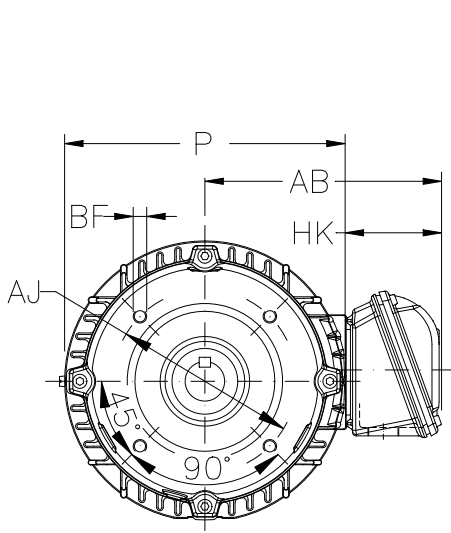
Customer :
Product line : W22 NEMA Premium - Ball Bearings

Frame	: 143T	Locked rotor current (I _l /I _n)	: 8.4
Output	: 1 HP	Duty cycle	: S1
Frequency	: 60 Hz	Service factor	: 1.25
Full load speed	: 1760 rpm	Design	: B
Voltage	: 208-230/460 V	Locked rotor torque	: 320 %
Rated current	: 3.07-2.94/1.47 A	Breakdown torque	: 350 %
Insulation class	: F		

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Customer:

W22 NEMA Premium - Ball Bearings

Three-phase induction motor
Frame 143T - IP55

12-SEP-2016



P	AB	U	N-W	ES
7.244	6.260	0.875	2.250	1.575
S	R	depth	HH	HK
0.187	0.771	0.187	4.250	2.638
C	LL	LM	AA	d1
12.346	4.528	4.094	NPT 3/4"	A 3,15
Flange	AJ	AK	BD	BF
FC-149	5.875	4.500	6.500	UNC 3/8"x16
BB	BC	AH		
0.157	0.125	2.125		

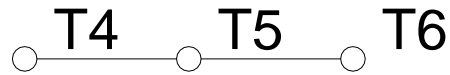
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A

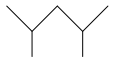
LOW VOLTAGE

HIGH VOLTAGE

B



C



D

E

F

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Customer:		
W22 NEMA Premium - Ball Bearings		
Three-phase induction motor Frame 143T - IP55	12-SEP-2016	