



Dealers Industrial Equipment

No.:

Date: 27-SEP-2016

Customer :

TECHNICAL PROPOSAL

Three-phase induction motor - Squirrel cage rotor

Product line : W22 NEMA Premium - Ball Bearings

Catalog Number : 10018ET3E405TC-W22

List Price : \$12,179

Notes:

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No.:

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DATA SHEET Three-phase induction motor - Squirrel cage rotor

Customer :
 Product line : W22 NEMA Premium - Ball Bearings

Frame : 404/5T
 Output : 100 HP
 Frequency : 60 Hz
 Poles : 4
 Full load speed : 1775 rpm
 Slip : 1.39 %
 Voltage : 208-230/460 V
 Rated current : 245-222/111 A
 Locked rotor current : 1620/810 A
 Locked rotor current (I_L/I_n) : 7.3
 No-load current : 76.0/38.0 A
 Full load torque : 292 lb.ft
 Locked rotor torque : 240 %
 Breakdown torque : 260 %
 Design : B
 Insulation class : F
 Temperature rise : 80 K
 Locked rotor time : 13 s (hot)
 Service factor : 1.25
 Duty cycle : S1
 Ambient temperature : -20°C - +40°C
 Altitude : 1000 m
 Degree of Protection : IP55
 Approximate weight : 1140 lb
 Moment of inertia : 29.894 sq.ft.lb
 Noise level : 68 dB(A)

	D.E.	N.D.E.
Bearings	6316 C3	6314 C3
Regreasing interval	10000 h	12000 h
Grease amount	34 g	27 g

Load	Power factor	Efficiency (%)
100%	0.88	95.4
75%	0.84	95.0
50%	0.77	95.0

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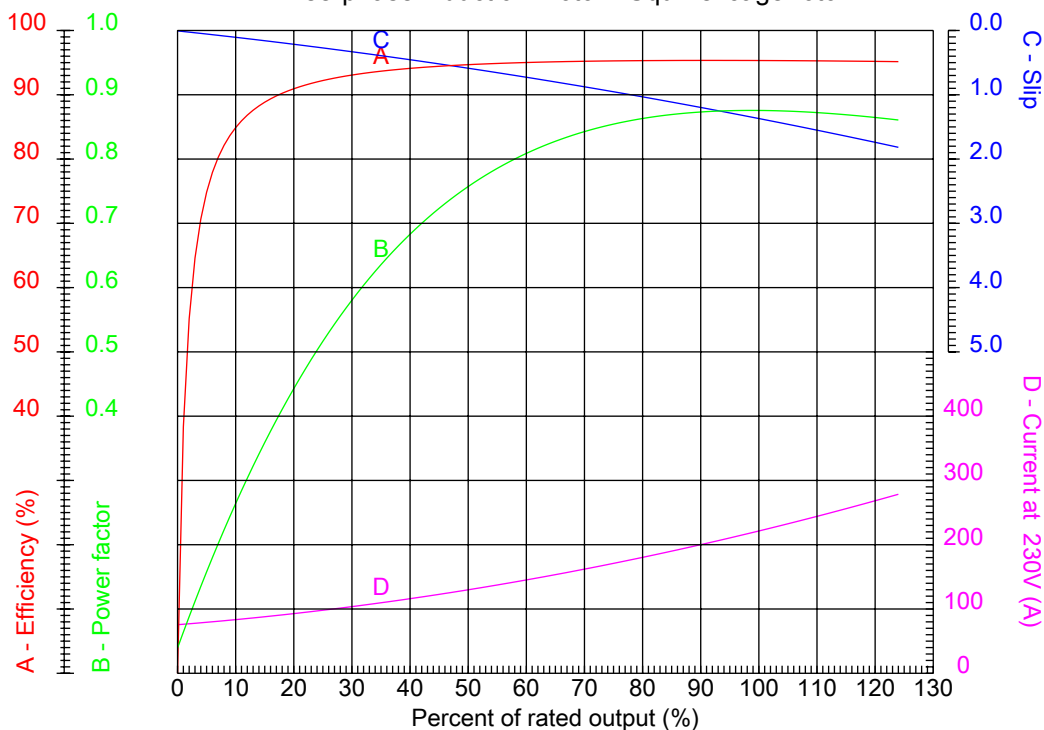
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PERFORMANCE CURVES RELATED TO RATED OUTPUT

Three-phase induction motor - Squirrel cage rotor



Customer :
Product line : W22 NEMA Premium - Ball Bearings

Frame	: 404/5T	Locked rotor current (I _l /I _n)	: 7.3
Output	: 100 HP	Duty cycle	: S1
Frequency	: 60 Hz	Service factor	: 1.25
Full load speed	: 1775 rpm	Design	: B
Voltage	: 208-230/460 V	Locked rotor torque	: 240 %
Rated current	: 245-222/111 A	Breakdown torque	: 260 %
Insulation class	: F		

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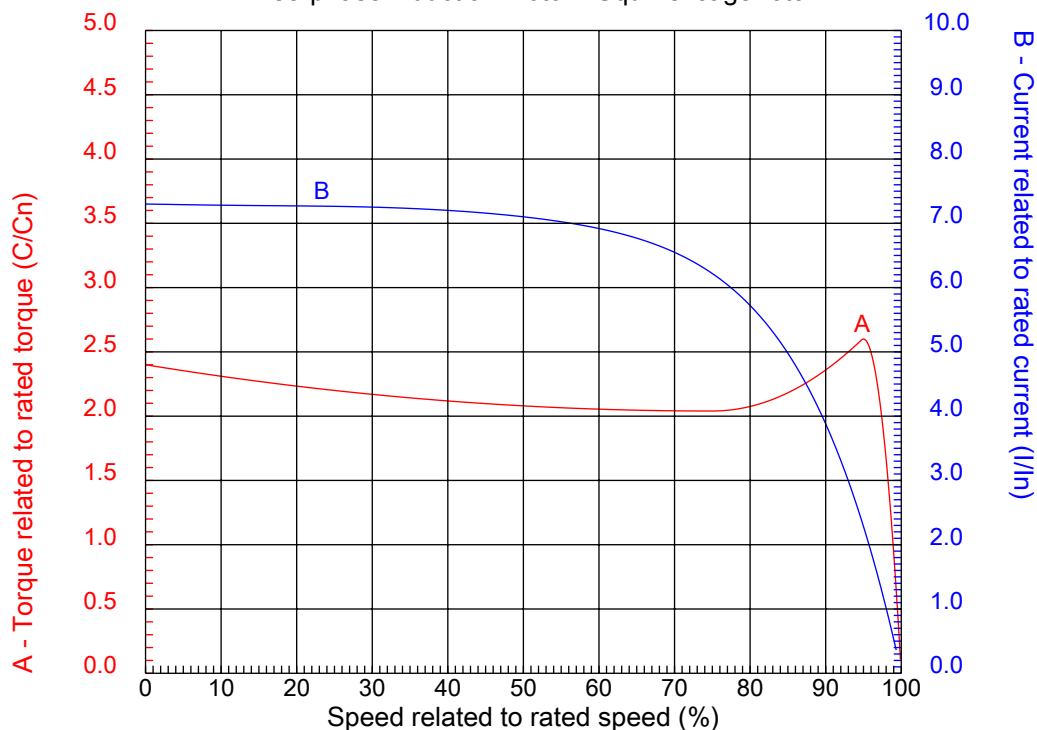
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CHARACTERISTIC CURVES RELATED TO SPEED

Three-phase induction motor - Squirrel cage rotor



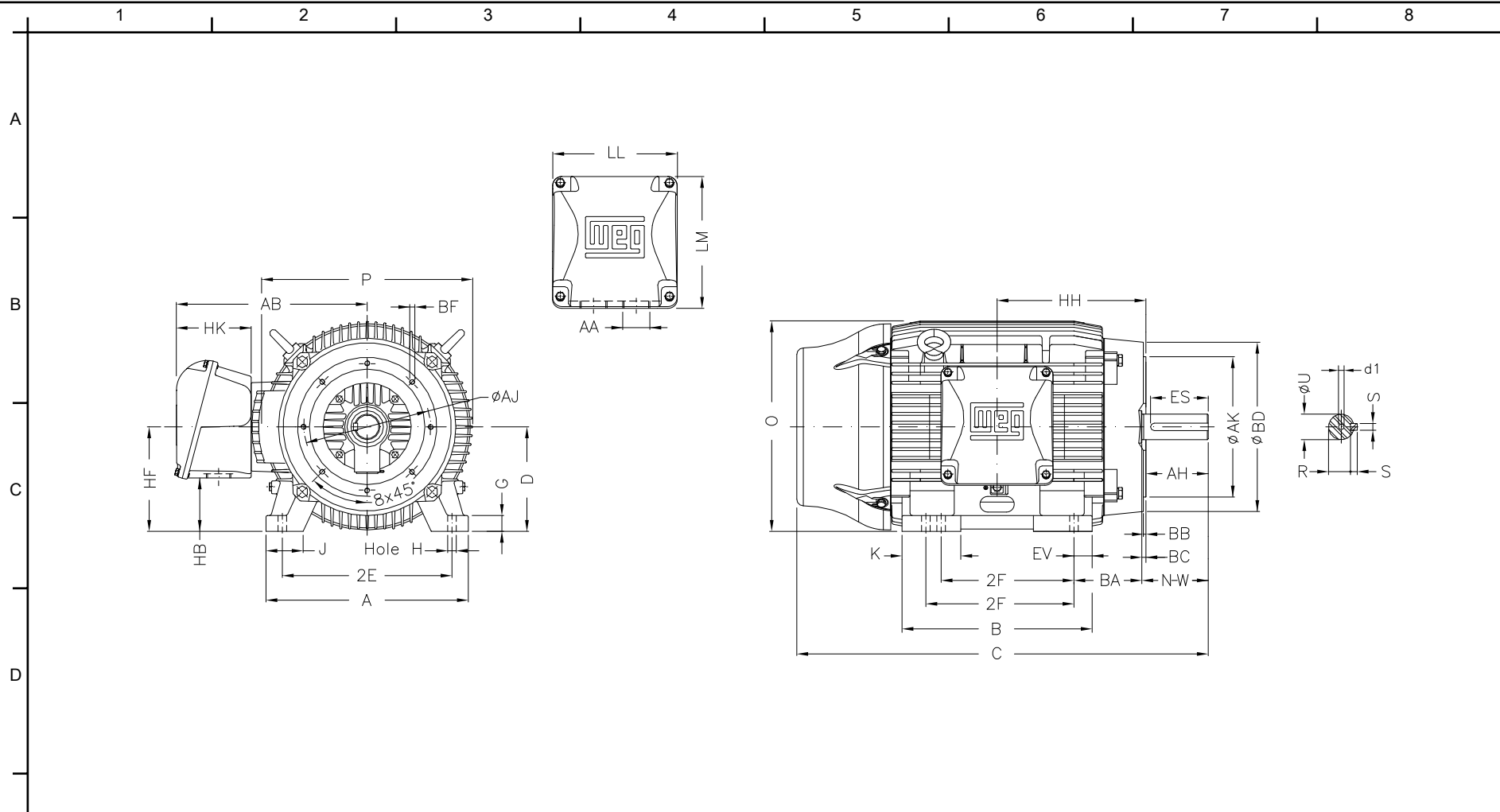
Customer :
Product line : W22 NEMA Premium - Ball Bearings

Frame	: 404/5T	Locked rotor current (I _l /I _n)	: 7.3
Output	: 100 HP	Duty cycle	: S1
Frequency	: 60 Hz	Service factor	: 1.25
Full load speed	: 1775 rpm	Design	: B
Voltage	: 208-230/460 V	Locked rotor torque	: 240 %
Rated current	: 245-222/111 A	Breakdown torque	: 260 %
Insulation class	: F		

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E	2E 15.984	J 3.937	A 19.921	P 19.134	AB 16.016
	2F 12.244/13.740	K 5.669	B 18.386	BA 6.625	FBA 13.926
	U 2.875	N-W 7.250	ES 5.512	S 0.750	R 2.449
	depth 0.750	D 10.000	G 1.811	HB 5.252	O 19.566
	HH 13.496	HK 6.024	EV 2.323	H 0.810	C 39.730
F	FC 45.295	LL 10.591	LM 11.267	AA NPT 3"	d1 DUNC 3/4"-10
	Flange FC-279	AJ 11.000	AK 12.500	BD 15.55	BF UNC 5/8"x11
	BB 0.250	BC 0.250	AH 7.000		

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Customer:

W22 NEMA Premium - Ball Bearings

Three-phase induction motor
 Frame 404/5T - IP55

27-SEP-2016



1 2 3 4 5 6 7 8

A
B
C
D
E
F

LOW VOLTAGE

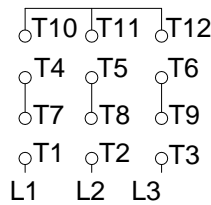
HIGH VOLTAGE



CONNECTIONS FOR STARTING ONLY:

LOW VOLTAGE

HIGH VOLTAGE



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Three-phase induction motor
Frame 404/5T - IP55

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