



Dealers Industrial Equipment

No.:

Date: 29-SEP-2016

Customer :

TECHNICAL PROPOSAL

Three-phase induction motor - Squirrel cage rotor

Product line : W40 - Open Induction Motors – NEMA Premium Efficiency

Catalog Number : 55036OT3G447/9TS-W40

List Price : \$32,629

Notes:

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DATA SHEET Three-phase induction motor - Squirrel cage rotor

Customer :
 Product line : W40 - Open Induction Motors – NEMA Premium Efficiency

Frame : 447/9TS
 Output : 550 HP
 Frequency : 60 Hz
 Poles : 2
 Full load speed : 3565 rpm
 Slip : 0.97 %
 Voltage : 460 V
 Rated current : 580 A
 Locked rotor current : 4180 A
 Locked rotor current (I_L/I_n) : 7.2
 No-load current : 122 A
 Full load torque : 799 lb.ft
 Locked rotor torque : 200 %
 Breakdown torque : 250 %
 Design : A
 Insulation class : F
 Temperature rise : 80 K
 Locked rotor time : 14 s (hot)
 Service factor : 1.15
 Duty cycle : S1
 Ambient temperature : -20°C - +40°C
 Altitude : 1000 m
 Degree of Protection : IP23
 Approximate weight : 2271 lb
 Moment of inertia : 50.262 sq.ft.lb
 Noise level : 87 dB(A)

	D.E.	N.D.E.
Bearings	6314 C3	6314 C3
Regreasing interval	14418 h	14418 h
Grease amount	27 g	27 g

Load	Power factor	Efficiency (%)
100%	0.90	96.2
75%	0.89	96.2
50%	0.84	95.8

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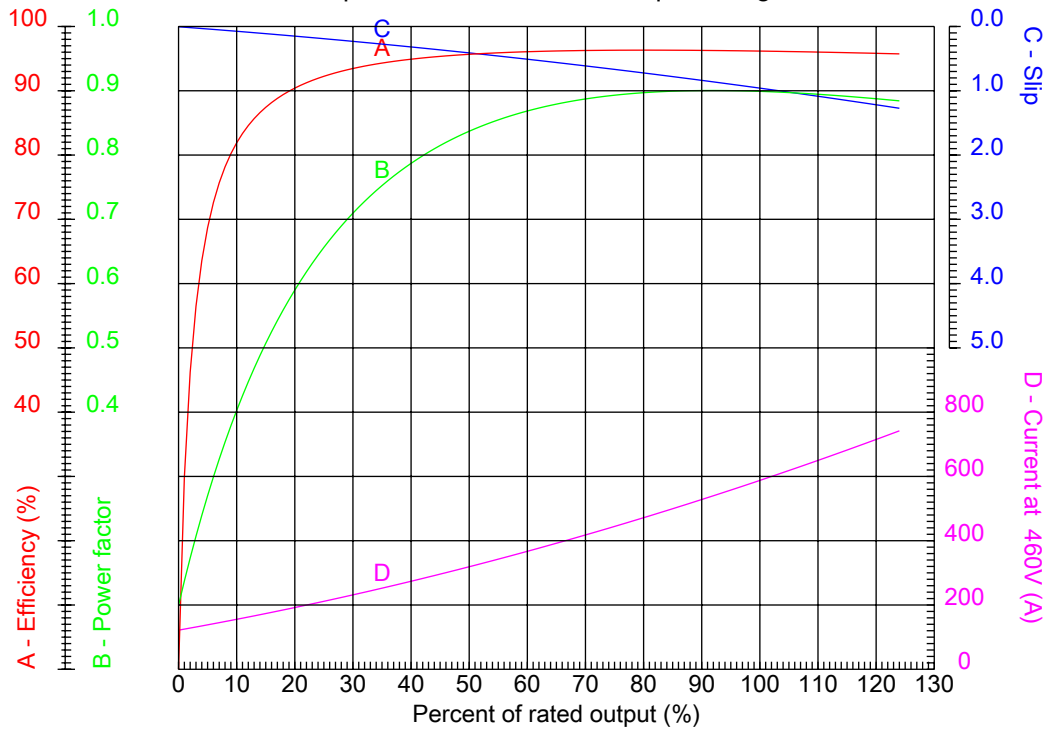
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PERFORMANCE CURVES RELATED TO RATED OUTPUT

Three-phase induction motor - Squirrel cage rotor



Customer :
Product line : W40 - Open Induction Motors – NEMA Premium Efficiency

Frame : 447/9TS	Locked rotor current (I _l /I _n) : 7.2
Output : 550 HP	Duty cycle : S1
Frequency : 60 Hz	Service factor : 1.15
Full load speed : 3565 rpm	Design : A
Voltage : 460 V	Locked rotor torque : 200 %
Rated current : 580 A	Breakdown torque : 250 %
Insulation class : F	

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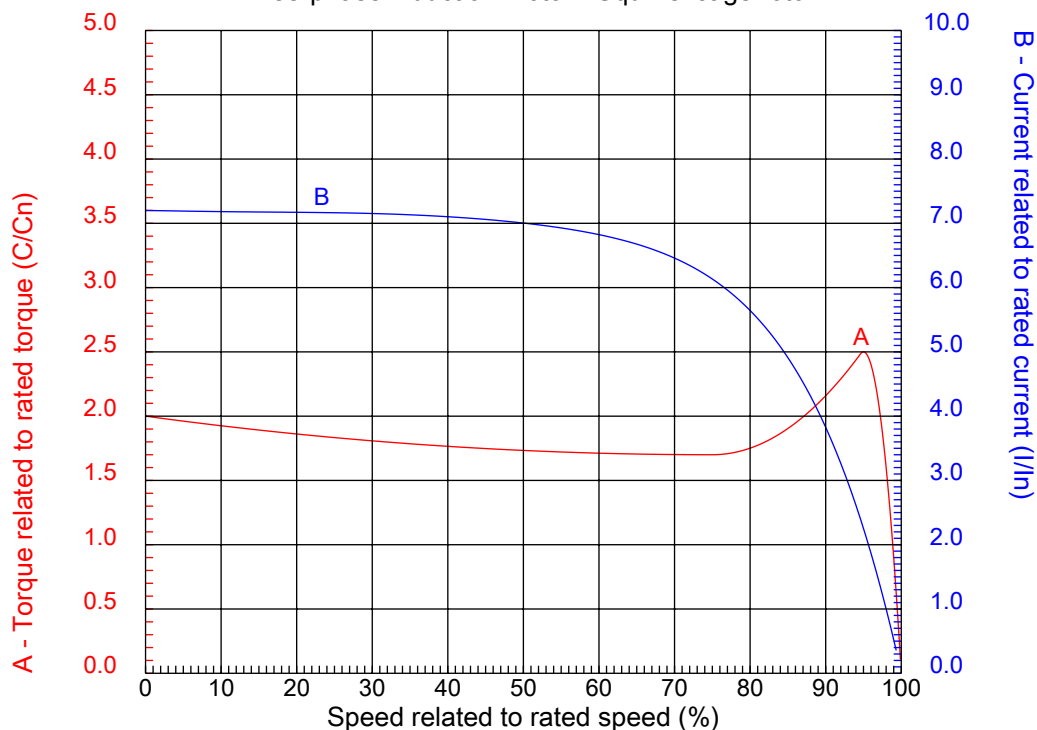
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CHARACTERISTIC CURVES RELATED TO SPEED

Three-phase induction motor - Squirrel cage rotor



Customer :
Product line : W40 - Open Induction Motors – NEMA Premium Efficiency

Frame	: 447/9TS	Locked rotor current (I _l /I _n)	: 7.2
Output	: 550 HP	Duty cycle	: S1
Frequency	: 60 Hz	Service factor	: 1.15
Full load speed	: 3565 rpm	Design	: A
Voltage	: 460 V	Locked rotor torque	: 200 %
Rated current	: 580 A	Breakdown torque	: 250 %
Insulation class	: F		

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1 2 3 4 5 6 7 8

A

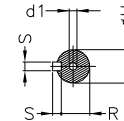
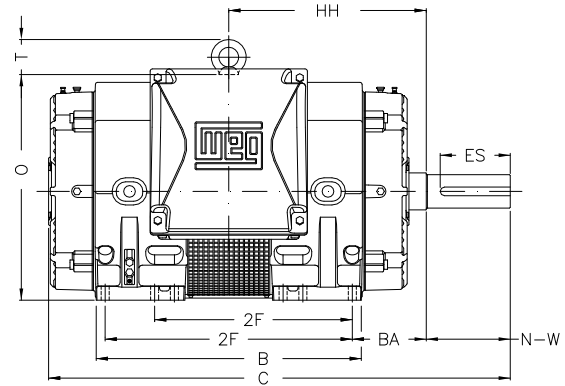
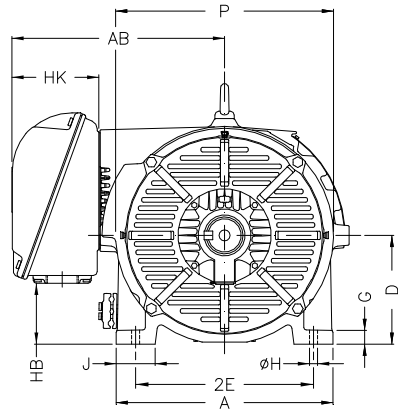
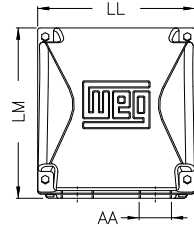
B

C

D

E

F



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2E 18.000	J 3.983	A 21.929	P 25.197	AB 21.505
2F 20.000/25.000	K 8.971	B 26.820	FK 8.971	EV 0.910
BA 7.480	U 2.375	d1 DUNC 3/4"-10	N-W 4.750	ES 3.000
S 0.625	R 2.021	depth 0.625	D 11.000	G 1.397
O 22.811	T 3.543	HH 19.980	H 0.810	C 42.959
AA 2xNPT 3"	DM NPT 3/4"	LL 15.904	LM 17.225	HK 8.907
HB 6.158				

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Customer:

W40 - Open Induction Motors – NEMA Premium Efficiency

Three-phase induction motor
Frame 447/9TS - IP23

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