



No.:

Date: 26-DEC-2012

Customer :

TECHNICAL PROPOSAL

Three-phase induction motor - Squirrel cage rotor

Product line : Close Coupled Pump: Three-Phase - W22 "JM" Type - TEFC - NEMA Premium

Catalog Number : 00118ET3E143JM-W22

List Price : \$613

Notes:

Performed by:

Checked:



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DATA SHEET

Three-phase induction motor - Squirrel cage rotor

Customer :
Product line : Close Coupled Pump: Three-Phase - W22 "JM" Type - TEFC - NEMA Premium

Frame : 143JM
Output : 1 HP
Frequency : 60 Hz
Poles : 4
Full load speed : 1760
Slip : 2.22 %
Voltage : 208-230/460 V
Rated current : 3.07-2.82/1.41 A
Locked rotor current : 23.7/11.8 A
Locked rotor current (I_L/I_n) : 8.4
No-load current : 1.54/0.770 A
Full load torque : 2.94 lb.ft
Locked rotor torque : 280 %
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
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.	Load	Power factor	Efficiency (%)
Bearings	6206 ZZ	6204 ZZ	100%	0.78	85.5
Regreasing interval	---	---	75%	0.70	84.0
Grease amount	---	---	50%	0.60	80.0

Notes:

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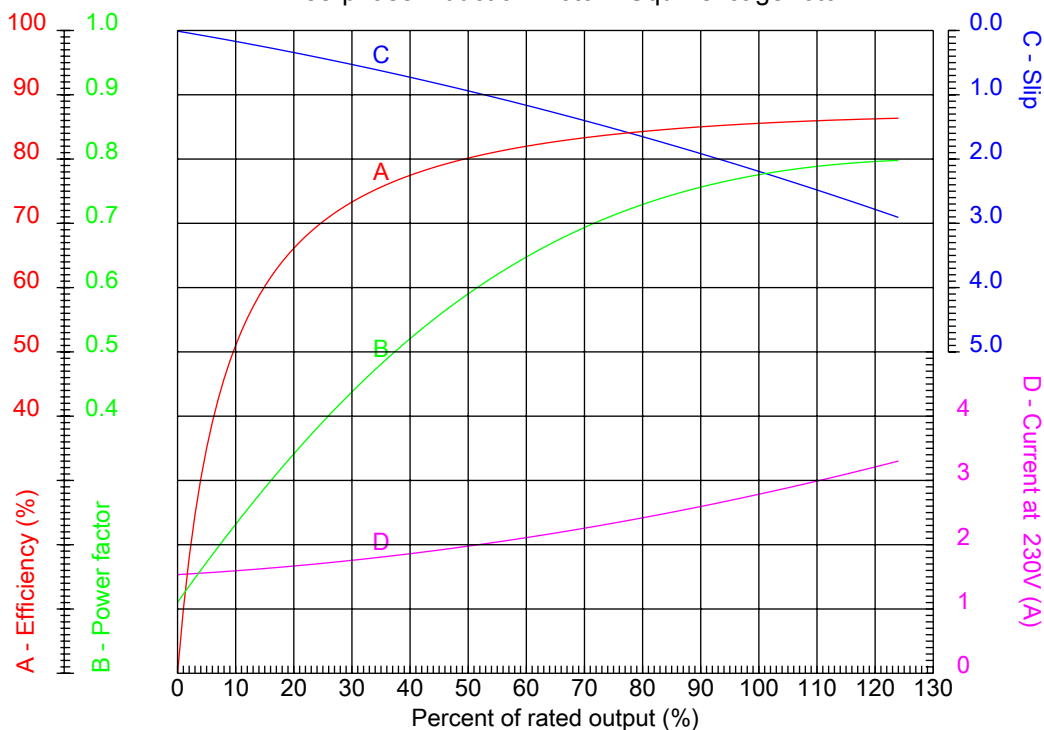


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PERFORMANCE CURVES RELATED TO RATED OUTPUT

Three-phase induction motor - Squirrel cage rotor



Customer :
Product line : Close Coupled Pump: Three-Phase - W22 "JM" Type - TEFC - NEMA Premium

Frame	: 143JM	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	Design	: B
Voltage	: 208-230/460 V	Locked rotor torque	: 280 %
Rated current	: 3.07-2.82/1.41 A	Breakdown torque	: 350 %
Insulation class	: F		

Notes:

Performed by

Checked

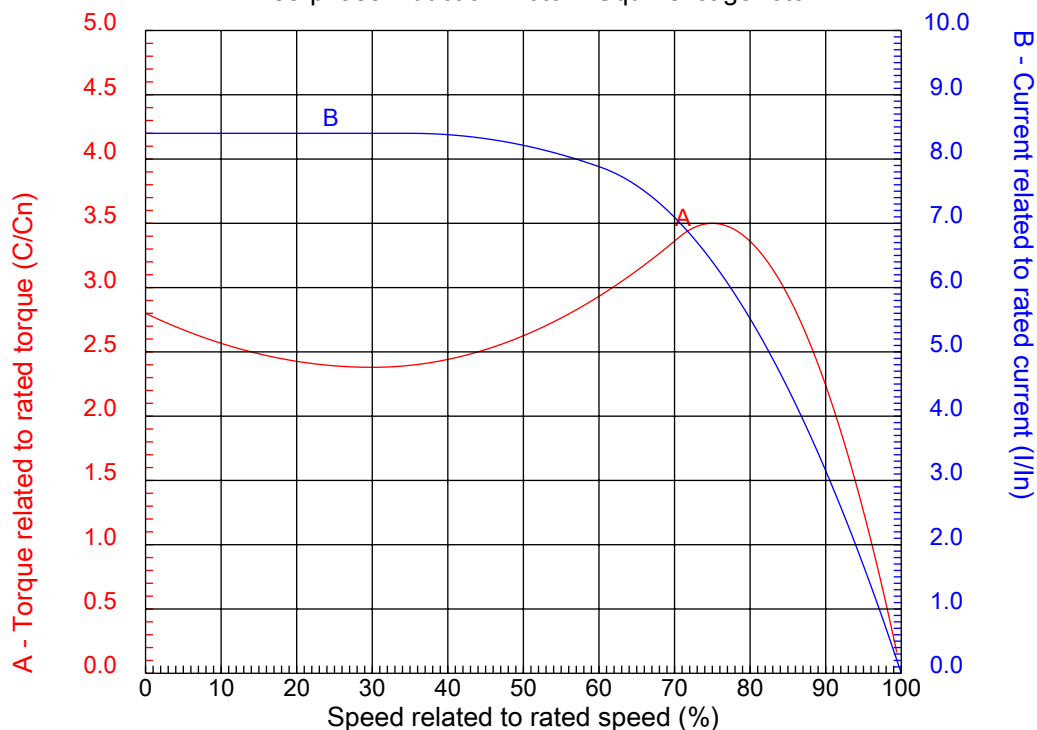


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CHARACTERISTIC CURVES RELATED TO SPEED

Three-phase induction motor - Squirrel cage rotor



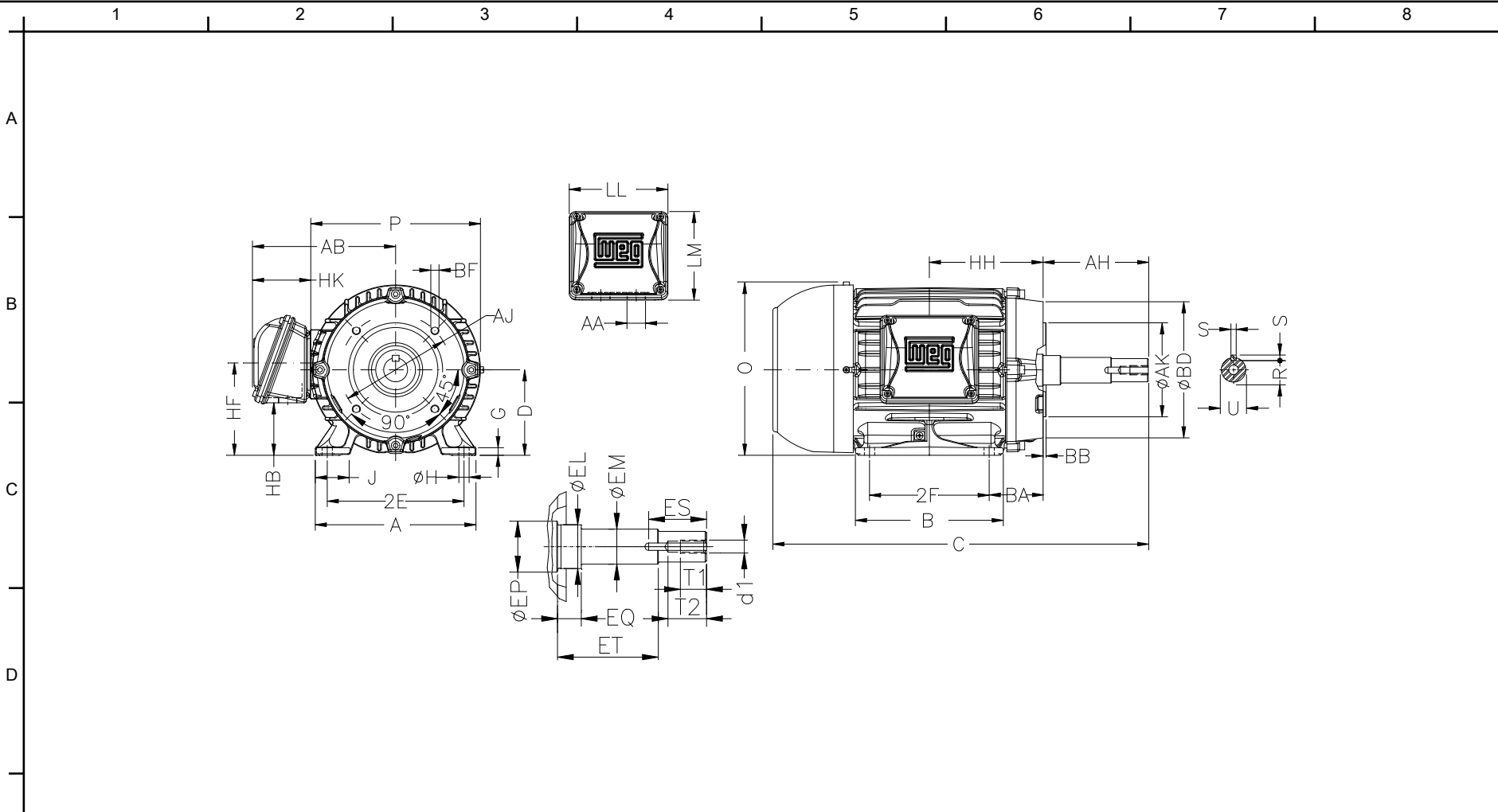
Customer :
Product line : Close Coupled Pump: Three-Phase - W22 "JM" Type - TEFC - NEMA Premium

Frame	: 143JM	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	Design	: B
Voltage	: 208-230/460 V	Locked rotor torque	: 280 %
Rated current	: 3.07-2.82/1.41 A	Breakdown torque	: 350 %
Insulation class	: F		

Notes:

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Notes:

2E 5.500	J 1.437	A 6.457	P 7.047	AB 6.181
2F 4.000	B 5.157	BA 2.560	D 3.500	G 0.354
O 7.122	H 0.344	AA NPT 3/4"	ER 4.258	EQ 0.630
ET 2.880	U 0.874	EM 1.000	EL 1.156	EP 1.179
ES 1.654	t1 0.748	t2 1.102	C 14.304	Flange FC-149
AJ 5.874	AK 4.500	BD 6.496	BF UNC 3/8"x16	BB 0.157
BC ---	AH 4.258			

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Customer:

Close Coupled Pump: Three-Phase - W22 "JM" Type - TEFC - NEMA Premium

Three-phase induction motor
Frame 143JM - IP55

26-DEC-2012

