



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 : 00158ET3H145JM-W22

List Price : \$643

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 : 145JM
Output : 1.5 HP
Frequency : 60 Hz
Poles : 4
Full load speed : 1755
Slip : 2.50 %
Voltage : 575 V
Rated current : 1.62 A
Locked rotor current : 13.4 A
Locked rotor current (I_L/I_n) : 8.3
No-load current : 0.840 A
Full load torque : 4.43 lb.ft
Locked rotor torque : 250 %
Breakdown torque : 340 %
Design : B
Insulation class : F
Temperature rise : 80 K
Locked rotor time : 14 s (hot)
Service factor : 1.25
Duty cycle : S1
Ambient temperature : -20°C - +40°C
Altitude : 1000
Degree of Protection : IP55
Approximate weight : 49 lb
Moment of inertia : 0.14309 sq.ft.lb
Noise level : 51 dB(A)

	D.E.	N.D.E.	Load	Power factor	Efficiency (%)
Bearings	6206 ZZ	6204 ZZ	100%	0.79	86.5
Regreasing interval	---	---	75%	0.70	85.5
Grease amount	---	---	50%	0.60	82.5

Notes:

Performed by

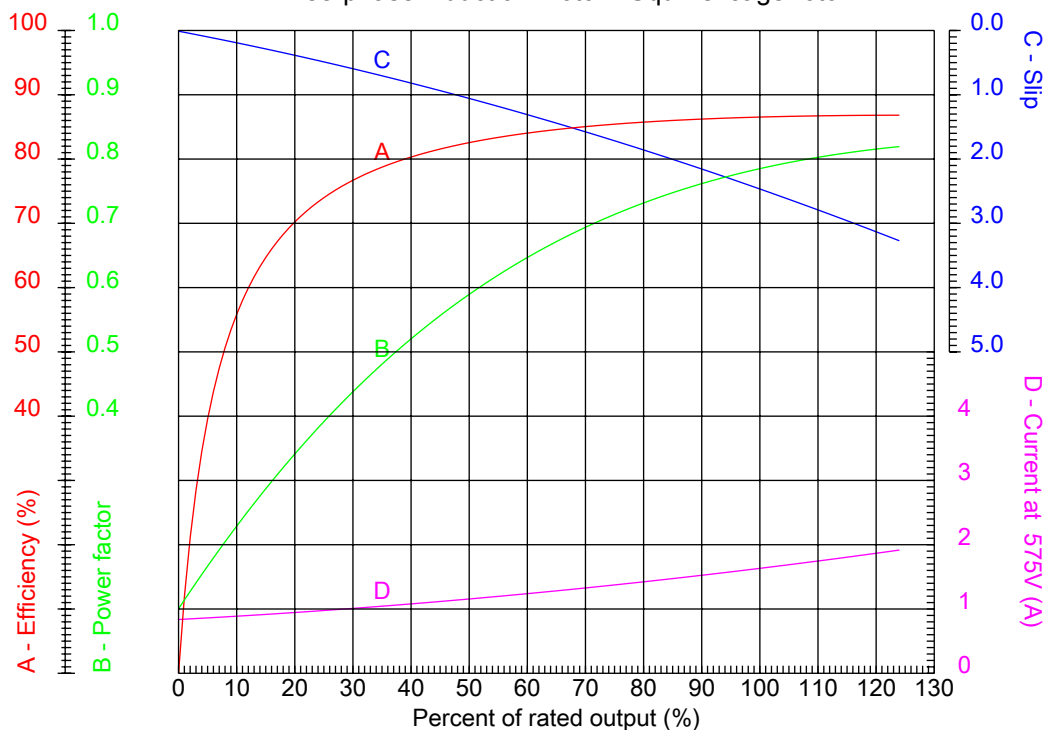
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PERFORMANCE CURVES RELATED TO RATED OUTPUT Three-phase induction motor - Squirrel cage rotor



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

Frame	: 145JM	Locked rotor current (I _L /I _n)	: 8.3
Output	: 1.5 HP	Duty cycle	: S1
Frequency	: 60 Hz	Service factor	: 1.25
Full load speed	: 1755	Design	: B
Voltage	: 575 V	Locked rotor torque	: 250 %
Rated current	: 1.62 A	Breakdown torque	: 340 %
Insulation class	: F		

Notes:

Performed by

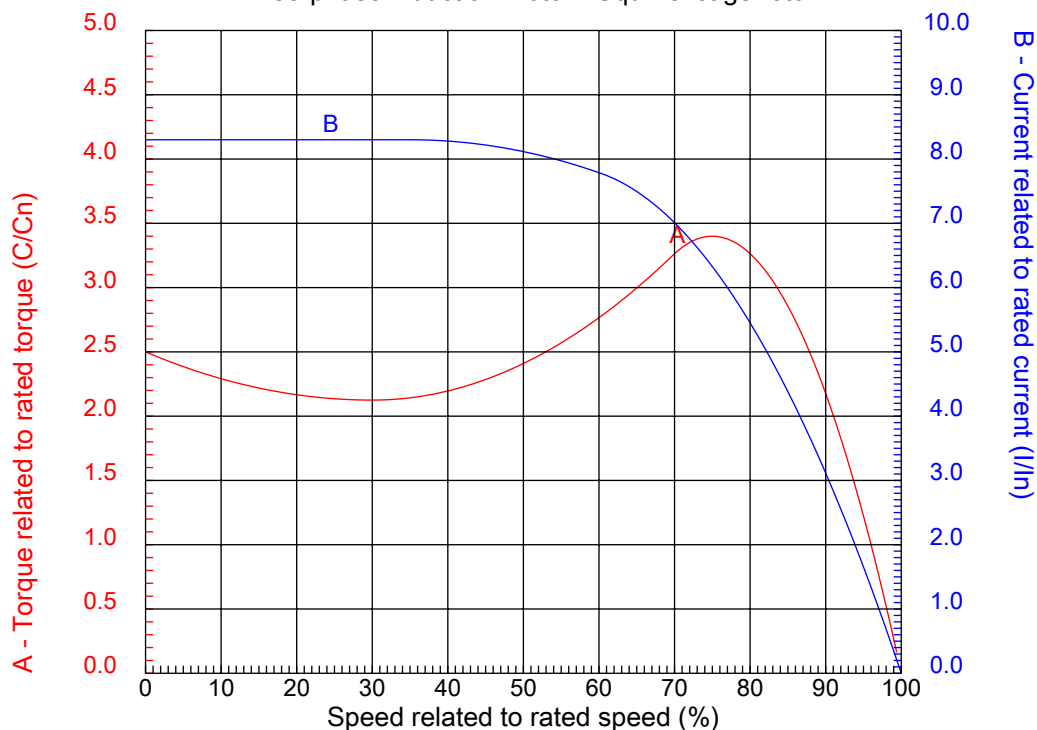
Checked



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CHARACTERISTIC CURVES RELATED TO SPEED Three-phase induction motor - Squirrel cage rotor



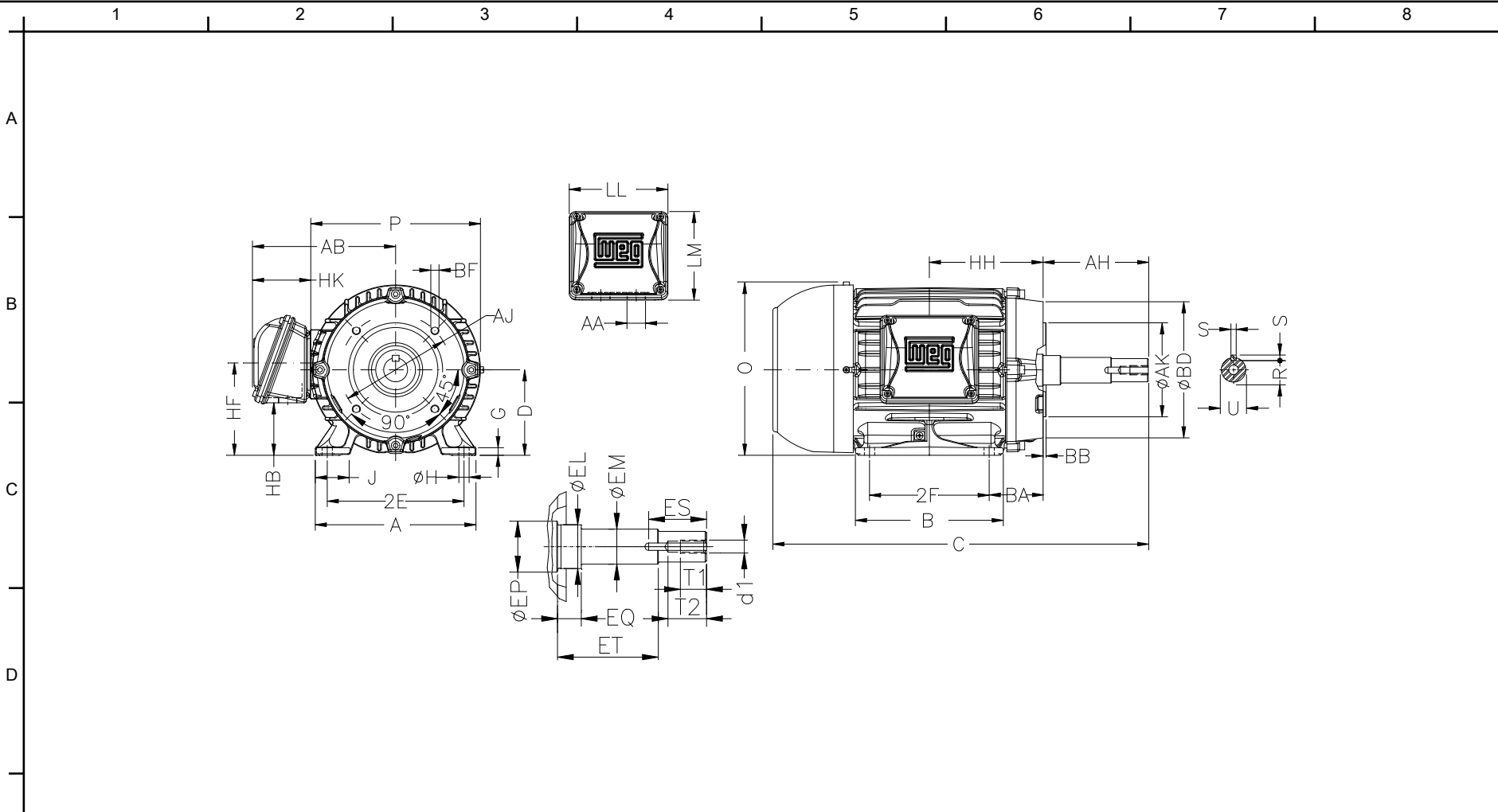
Customer :
Product line : Close Coupled Pump: Three-Phase - W22 "JM" Type - TEFC - NEMA Premium

Frame	: 145JM	Locked rotor current (I _l /I _n)	: 8.3
Output	: 1.5 HP	Duty cycle	: S1
Frequency	: 60 Hz	Service factor	: 1.25
Full load speed	: 1755	Design	: B
Voltage	: 575 V	Locked rotor torque	: 250 %
Rated current	: 1.62 A	Breakdown torque	: 340 %
Insulation class	: F		

Notes:

Performed by

Checked



Notes:

2E 5.500	J 1.437	A 6.457	P 7.047	AB 6.181
2F 5.000	B 6.142	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 15.304	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 145JM - IP55

26-DEC-2012

