



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 : 00156ET3E143JM-W22

List Price : \$710

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 : 1.5 HP
Frequency : 60 Hz
Poles : 2
Full load speed : 3490
Slip : 3.06 %
Voltage : 208-230/460 V
Rated current : 4.20-3.82/1.91 A
Locked rotor current : 34.0/17.0 A
Locked rotor current (I_L/I_n) : 8.9
No-load current : 1.50/0.750 A
Full load torque : 2.23 lb.ft
Locked rotor torque : 350 %
Breakdown torque : 380 %
Design : B
Insulation class : F
Temperature rise : 80 K
Locked rotor time : 21 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 : 0.04699 sq.ft.lb
Noise level : 68 dB(A)

	D.E.	N.D.E.	Load	Power factor	Efficiency (%)
Bearings	6206 ZZ	6204 ZZ	100%	0.86	84.0
Regreasing interval	---	---	75%	0.82	84.0
Grease amount	---	---	50%	0.72	81.5

Notes:

Performed by

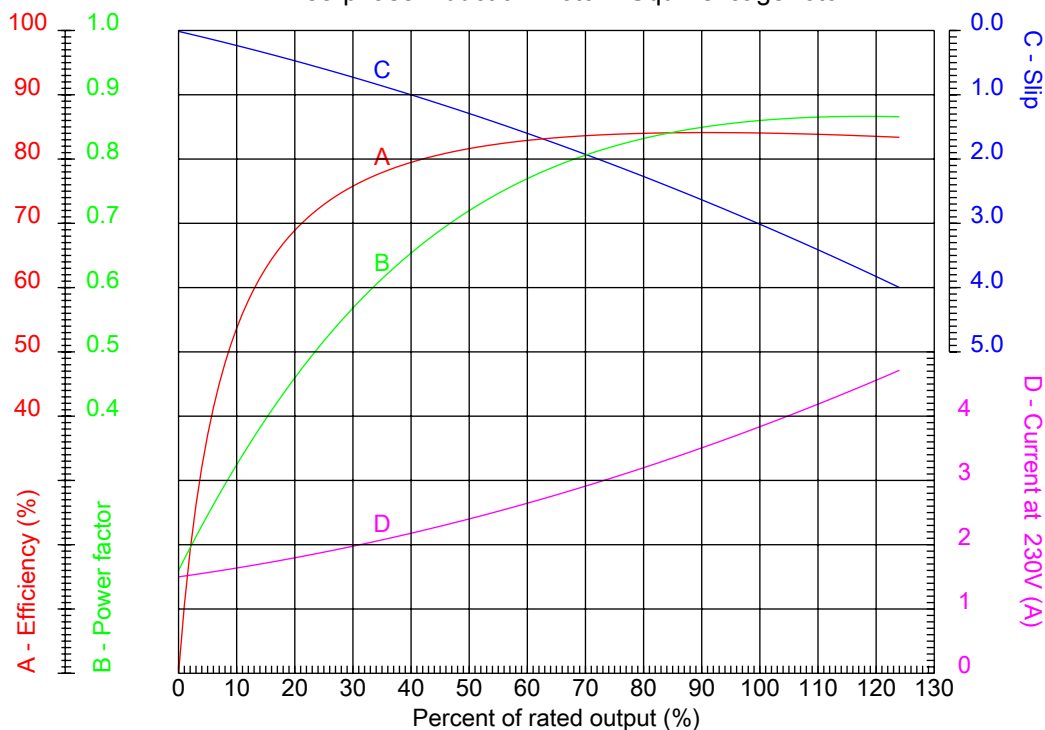
Checked



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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)	: 8.9
Output	: 1.5 HP	Duty cycle	: S1
Frequency	: 60 Hz	Service factor	: 1.25
Full load speed	: 3490	Design	: B
Voltage	: 208-230/460 V	Locked rotor torque	: 350 %
Rated current	: 4.20-3.82/1.91 A	Breakdown torque	: 380 %
Insulation class	: F		

Notes:

Performed by

Checked

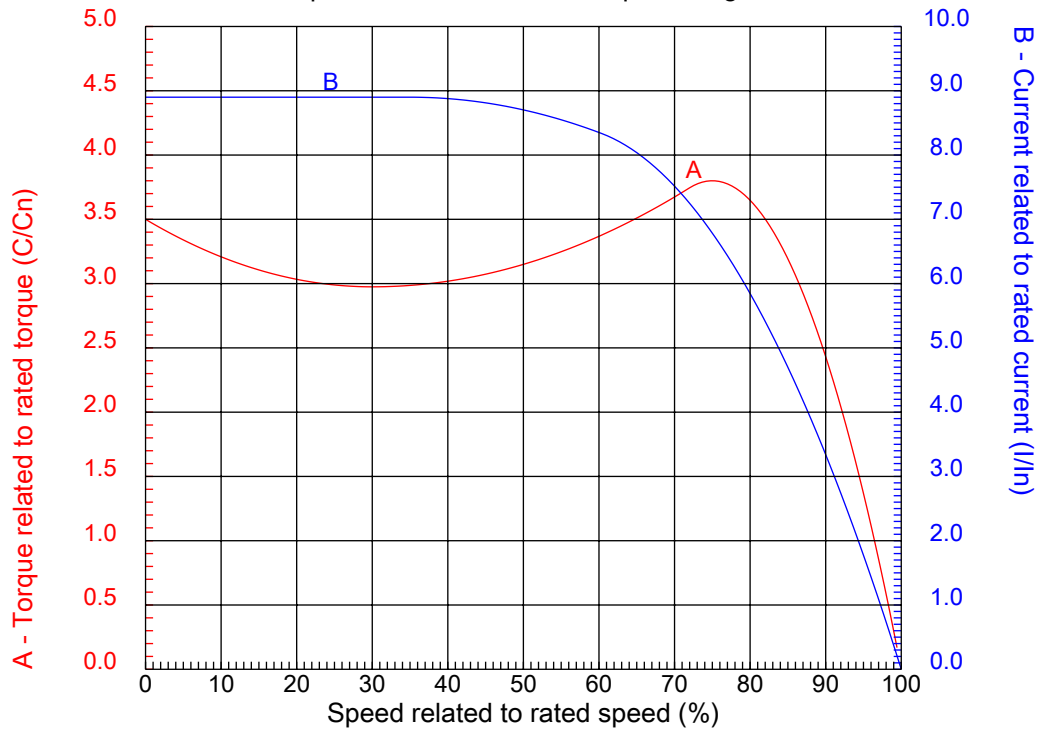


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CHARACTERISTIC CURVES RELATED TO SPEED

Three-phase induction motor - Squirrel cage rotor



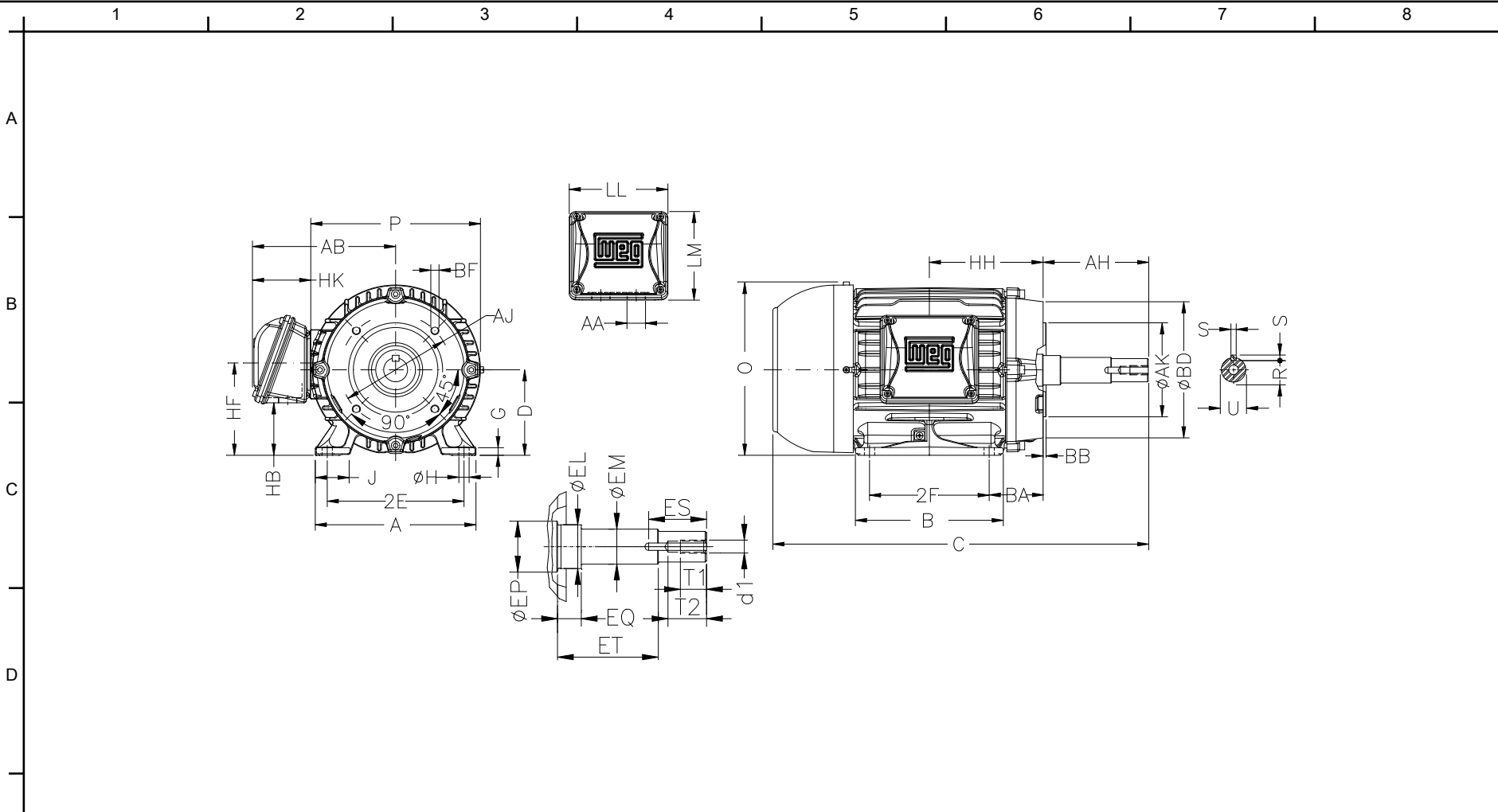
Customer :
Product line : Close Coupled Pump: Three-Phase - W22 "JM" Type - TEFC - NEMA Premium

Frame	: 143JM	Locked rotor current (I _l /I _n)	: 8.9
Output	: 1.5 HP	Duty cycle	: S1
Frequency	: 60 Hz	Service factor	: 1.25
Full load speed	: 3490	Design	: B
Voltage	: 208-230/460 V	Locked rotor torque	: 350 %
Rated current	: 4.20-3.82/1.91 A	Breakdown torque	: 380 %
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

