



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 - High Efficiency

Catalog Number : 00156EP3E143JM-W22

List Price : \$527

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 - High Efficiency

Frame : 143JM  
Output : 1.5 HP  
Frequency : 60 Hz  
Poles : 2  
Full load speed : 3455  
Slip : 4.03 %  
Voltage : 208-230/460 V  
Rated current : 4.40-3.98/1.99 A  
Locked rotor current : 27.1/13.5 A  
Locked rotor current (I<sub>L</sub>/I<sub>n</sub>) : 6.8  
No-load current : 1.80/0.900 A  
Full load torque : 2.25 lb.ft  
Locked rotor torque : 250 %  
Breakdown torque : 300 %  
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  
Degree of Protection : IP55  
Approximate weight : 39 lb  
Moment of inertia : 0.03702 sq.ft.lb  
Noise level : 68 dB(A)

	D.E.	N.D.E.	Load	Power factor	Efficiency (%)
Bearings	6206 ZZ	6204 ZZ	100%	0.84	82.5
Regreasing interval	---	---	75%	0.78	82.5
Grease amount	---	---	50%	0.68	78.5

Notes:

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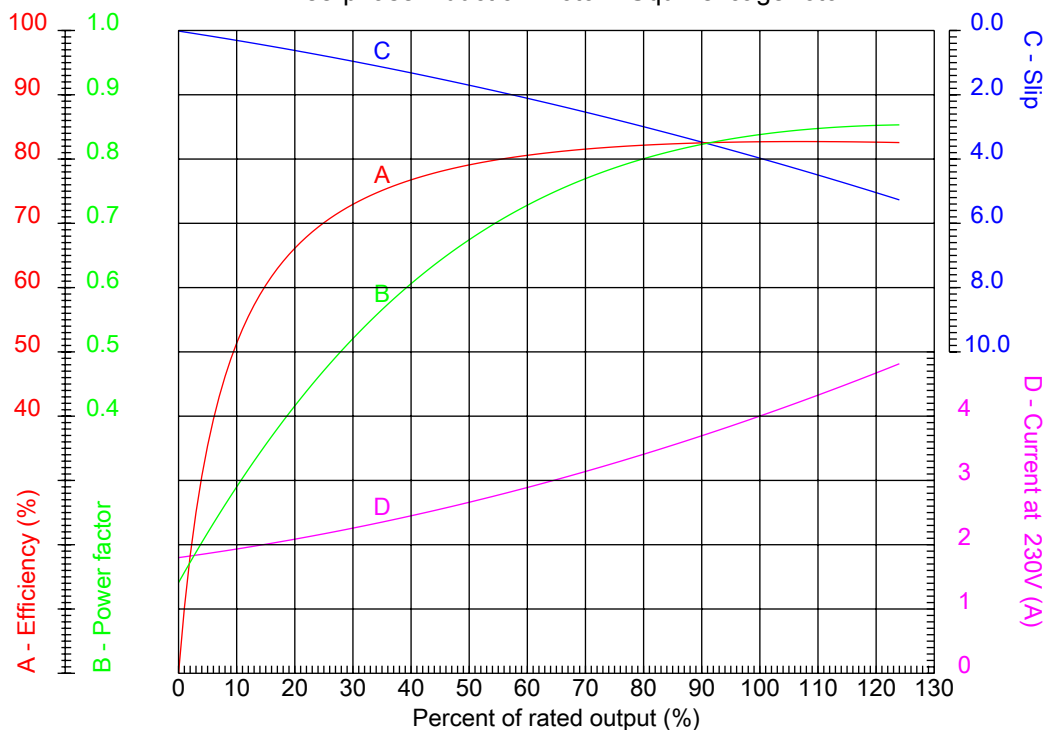
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### PERFORMANCE CURVES RELATED TO RATED OUTPUT Three-phase induction motor - Squirrel cage rotor



Customer :  
Product line : Close Coupled Pump: Three-Phase - W22 "JM" Type - TEFC - High Efficiency

Frame	: 143JM	Locked rotor current (I <sub>l</sub> /I <sub>n</sub> )	: 6.8
Output	: 1.5 HP	Duty cycle	: S1
Frequency	: 60 Hz	Service factor	: 1.25
Full load speed	: 3455	Design	: B
Voltage	: 208-230/460 V	Locked rotor torque	: 250 %
Rated current	: 4.40-3.98/1.99 A	Breakdown torque	: 300 %
Insulation class	: F		

Notes:

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Checked

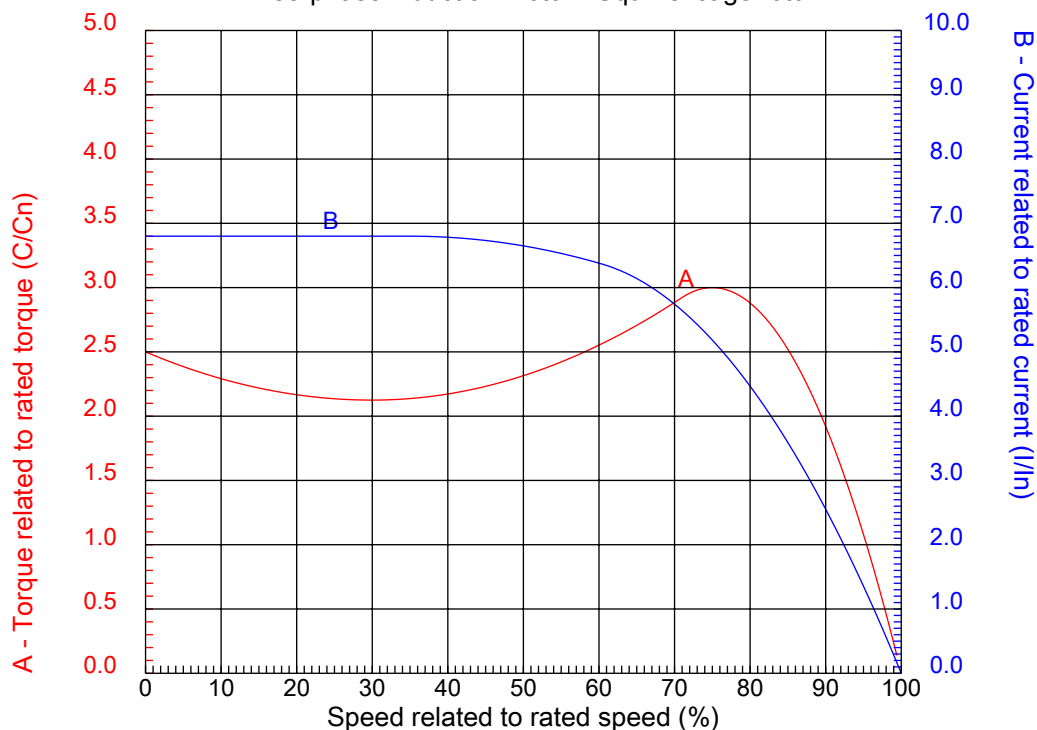


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### CHARACTERISTIC CURVES RELATED TO SPEED

Three-phase induction motor - Squirrel cage rotor



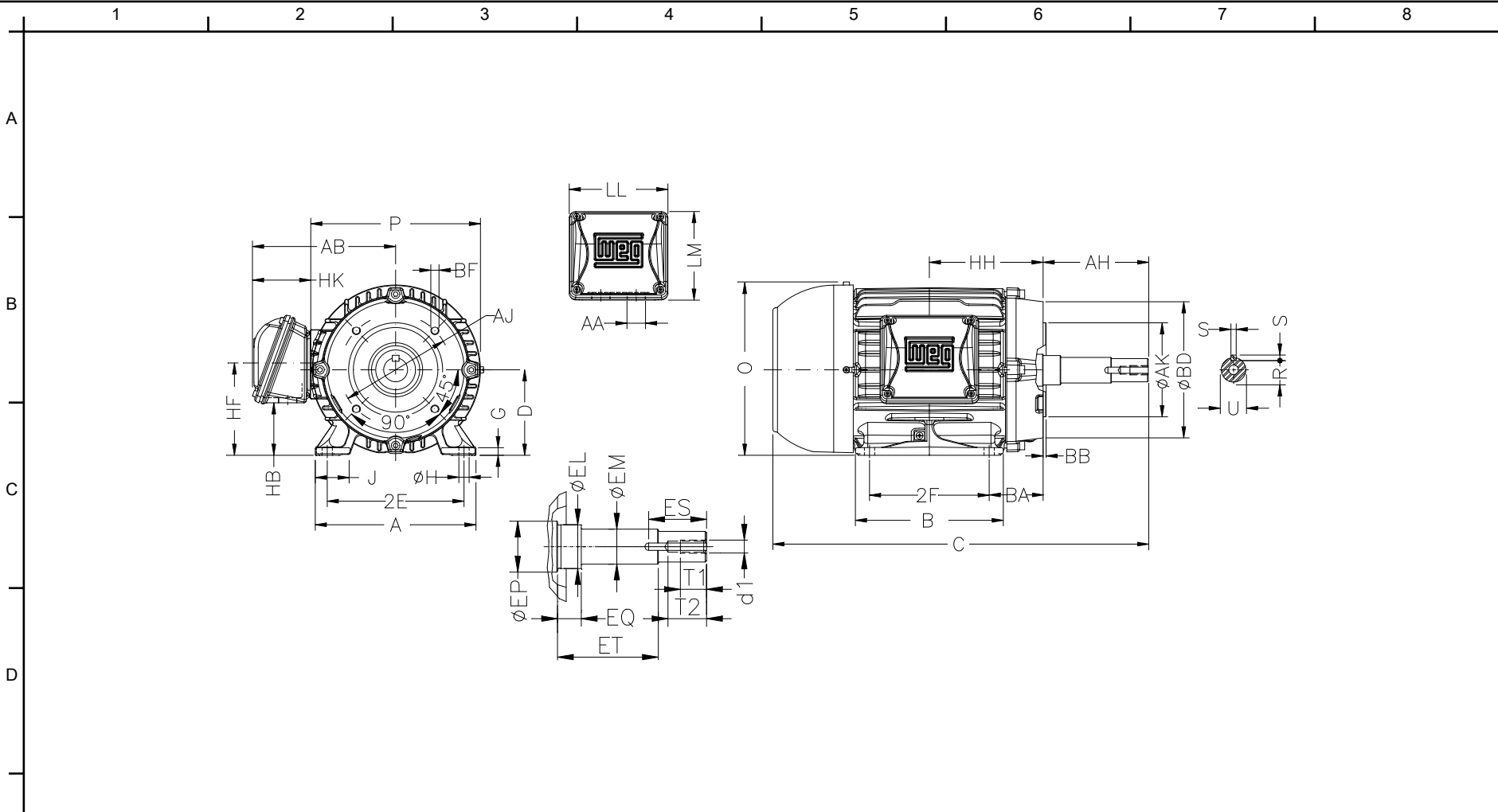
Customer :  
Product line : Close Coupled Pump: Three-Phase - W22 "JM" Type - TEFC - High Efficiency

Frame	: 143JM	Locked rotor current (I <sub>l</sub> /I <sub>n</sub> )	: 6.8
Output	: 1.5 HP	Duty cycle	: S1
Frequency	: 60 Hz	Service factor	: 1.25
Full load speed	: 3455	Design	: B
Voltage	: 208-230/460 V	Locked rotor torque	: 250 %
Rated current	: 4.40-3.98/1.99 A	Breakdown torque	: 300 %
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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Checked:	
Customer:	
Close Coupled Pump: Three-Phase - W22 "JM" Type - TEFC - High Efficiency	
Three-phase induction motor Frame 143JM - IP55	26-DEC-2012

