



No.:

Date: 27-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 : 02036ET3E256JM-W22

List Price : \$2,965

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 : 256JM  
Output : 20 HP  
Frequency : 60 Hz  
Poles : 2  
Full load speed : 3520  
Slip : 2.22 %  
Voltage : 208-230/460 V  
Rated current : 51.3-46.4/23.2 A  
Locked rotor current : 278/139 A  
Locked rotor current (I<sub>L</sub>/I<sub>n</sub>) : 6.0  
No-load current : 13.0/6.50 A  
Full load torque : 29.4 lb.ft  
Locked rotor torque : 200 %  
Breakdown torque : 240 %  
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 : 269 lb  
Moment of inertia : 1.5356 sq.ft.lb  
Noise level : 72 dB(A)

	D.E.	N.D.E.	Load	Power factor	Efficiency (%)
Bearings	6309 C3	6209 C3	100%	0.89	91.0
Regreasing interval	19000 h	20000 h	75%	0.87	91.7
Grease amount	13 g	9 g	50%	0.82	91.0

Notes:

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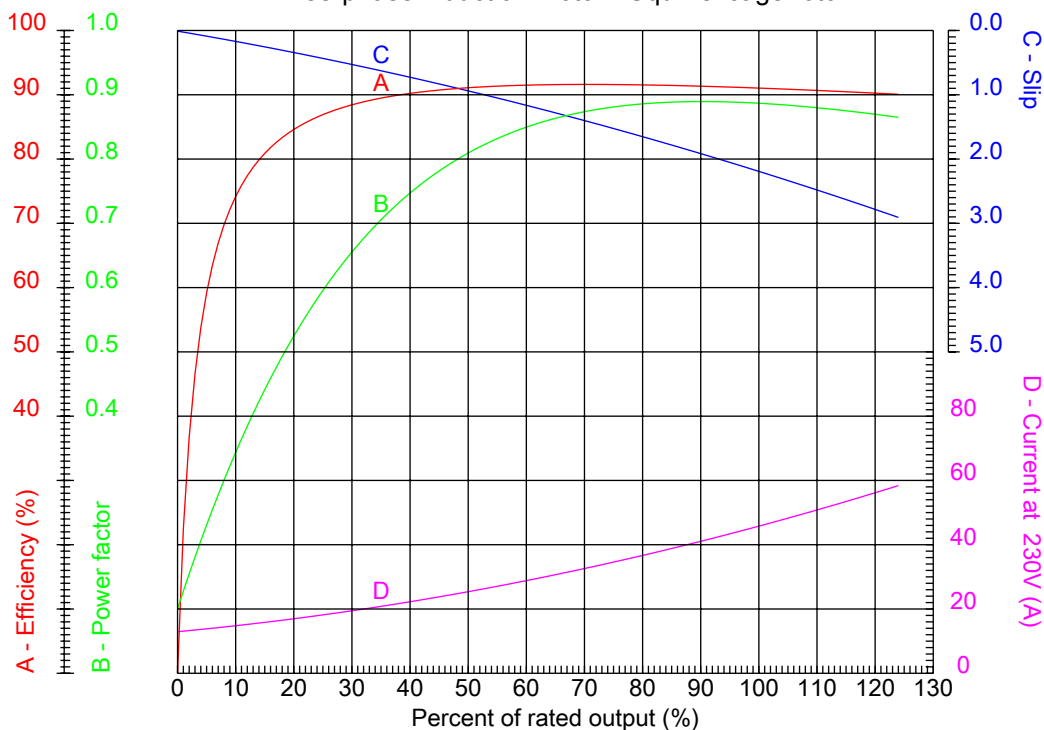
Checked



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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	: 256JM	Locked rotor current (I <sub>l</sub> /I <sub>n</sub> )	: 6.0
Output	: 20 HP	Duty cycle	: S1
Frequency	: 60 Hz	Service factor	: 1.25
Full load speed	: 3520	Design	: B
Voltage	: 208-230/460 V	Locked rotor torque	: 200 %
Rated current	: 51.3-46.4/23.2 A	Breakdown torque	: 240 %
Insulation class	: F		

Notes:

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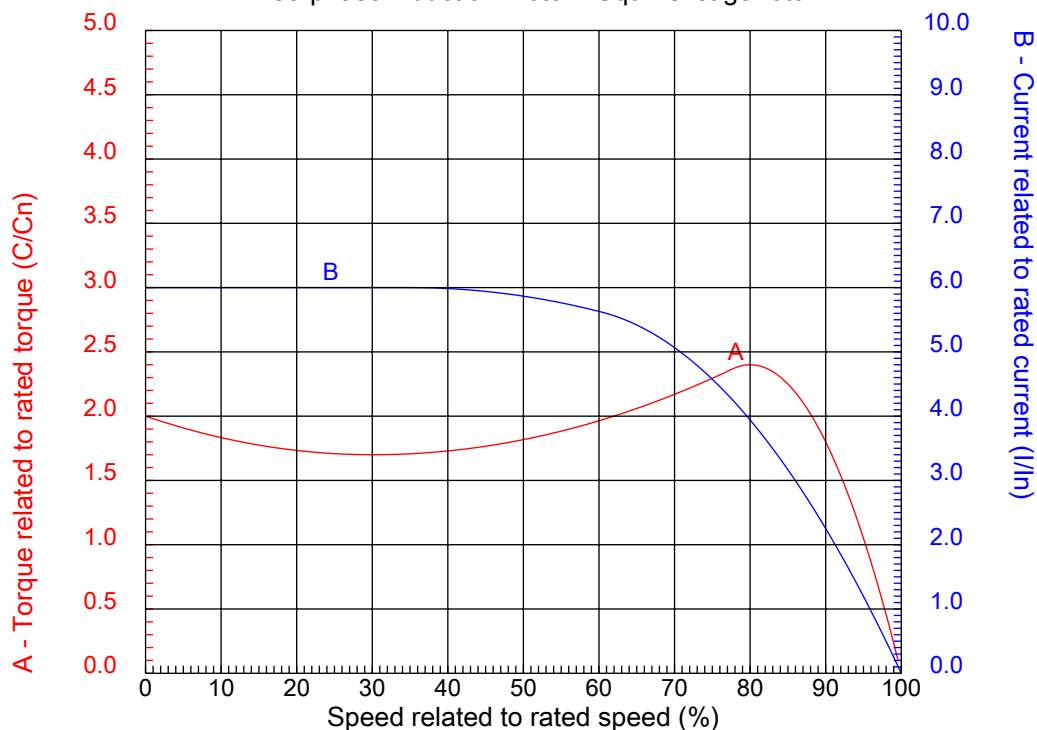


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### CHARACTERISTIC CURVES RELATED TO SPEED

Three-phase induction motor - Squirrel cage rotor



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

Frame	: 256JM	Locked rotor current (I <sub>l</sub> /I <sub>n</sub> )	: 6.0
Output	: 20 HP	Duty cycle	: S1
Frequency	: 60 Hz	Service factor	: 1.25
Full load speed	: 3520	Design	: B
Voltage	: 208-230/460 V	Locked rotor torque	: 200 %
Rated current	: 51.3-46.4/23.2 A	Breakdown torque	: 240 %
Insulation class	: F		

Notes:

Performed by

Checked

