



Dealers Industrial Equipment

No.:

Date: 12-SEP-2016

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 : \$>(discontinued)

Notes:

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Dealers Industrial Equipment

No.:

Date: 12-SEP-2016

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 rpm
 Slip : 4.03 %
 Voltage : 230/460 V
 Rated current : 3.98/1.99 A
 Locked rotor current : 27.1/13.5 A
 Locked rotor current (I_L/I_n) : 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 m
 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.
Bearings	6206 ZZ	6204 ZZ
Regreasing interval	---	---
Grease amount	---	---

Load	Power factor	Efficiency (%)
100%	0.84	82.5
75%	0.78	82.5
50%	0.68	78.5

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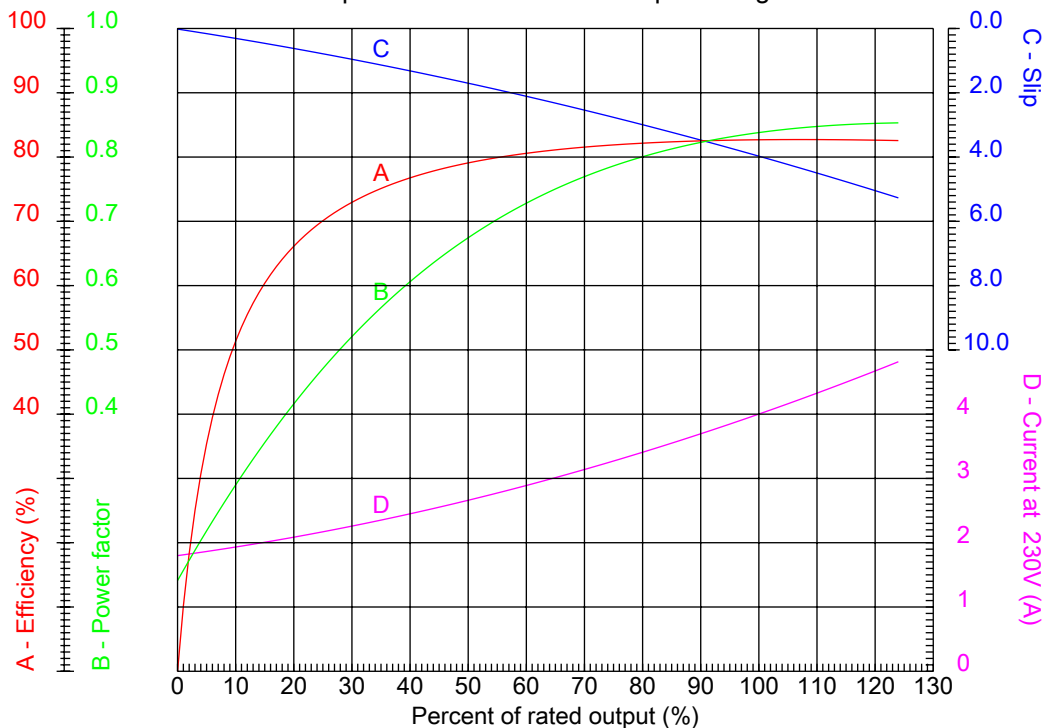
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No.:

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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 _l /I _n)	: 6.8
Output	: 1.5 HP	Duty cycle	: S1
Frequency	: 60 Hz	Service factor	: 1.25
Full load speed	: 3455 rpm	Design	: B
Voltage	: 230/460 V	Locked rotor torque	: 250 %
Rated current	: 3.98/1.99 A	Breakdown torque	: 300 %
Insulation class	: F		

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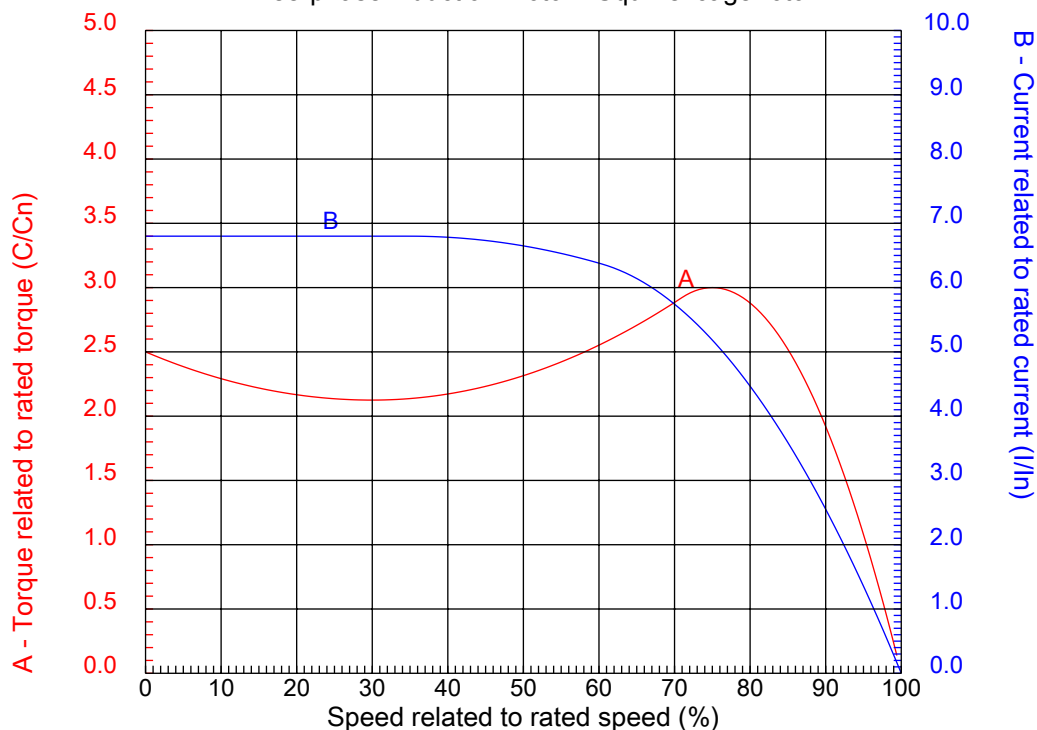
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CHARACTERISTIC CURVES RELATED TO SPEED

Three-phase induction motor - Squirrel cage rotor



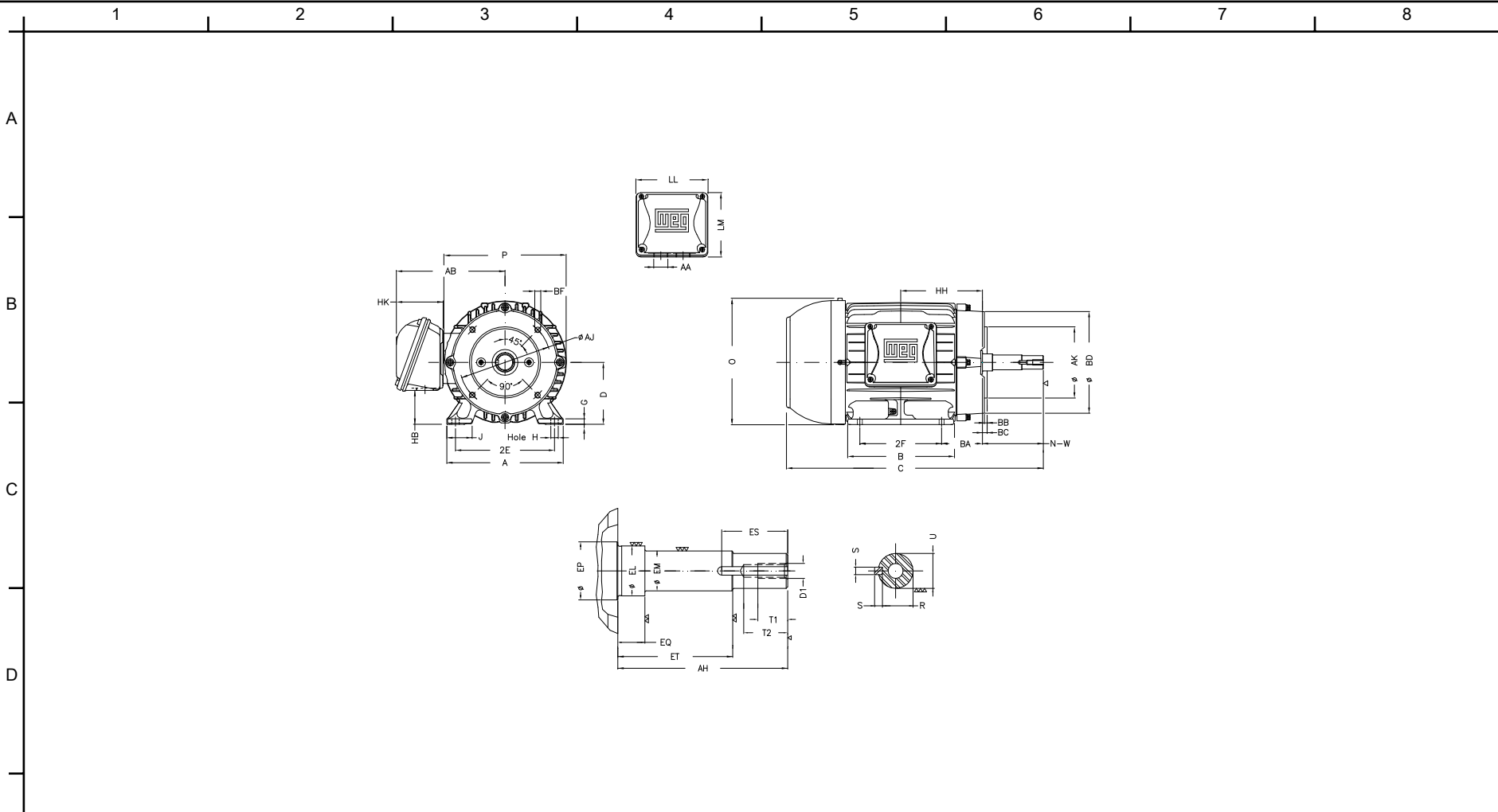
Customer :
Product line : Close Coupled Pump: Three-Phase - W22 "JM" Type - TEFC - High Efficiency

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

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2E	J	A	P	AB
5.500	1.437	6.457	7.047	6.260
2F	B	BA	D	G
4.000	5.157	2.560	3.500	0.354
O	H	AA	EQ	ET
7.122	0.344	NPT 3/4"	0.630	2.880
U	EM	EL	EP	ES
0.874	1.000	1.156	1.179	1.654
t1	t2	C	d1	HH
0.748	1.102	14.691	EUNC 3/8"-16	4.250
HK	HB	LL	LM	S
2.638	1.787	4.528	4.094	0.187
R	Flange	AJ	AK	BD
0.768	FC-149	5.874	4.500	6.496
BF	BB	AH		
UNC 3/8"x16	0.157	4.258		

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Customer:

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

Three-phase induction motor
 Frame 143JM - IP55

12-SEP-2016



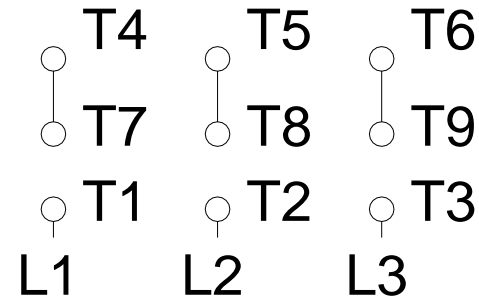
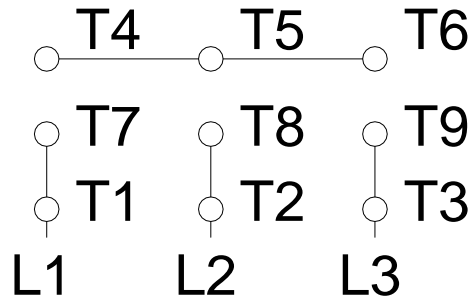
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A

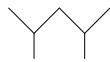
LOW VOLTAGE

HIGH VOLTAGE

B



C



D

E

F

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Three-phase induction motor
 Frame 143JM - IP55

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