



Dealers Industrial Equipment

No.:

Date: 23-SEP-2016

Customer :

TECHNICAL PROPOSAL

Three-phase induction motor - Squirrel cage rotor

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

Catalog Number : 01518EP3E254JP-W22

List Price : \$>(discontinued)</span>

Notes:

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Generated for Model #01518EP3E254JP-W22

Performed by:

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No.:

Date: 23-SEP-2016

## DATA SHEET Three-phase induction motor - Squirrel cage rotor

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

Frame : 254JP  
 Output : 15 HP  
 Frequency : 60 Hz  
 Poles : 4  
 Full load speed : 1765 rpm  
 Slip : 1.94 %  
 Voltage : 230/460 V  
 Rated current : 35.6/17.8 A  
 Locked rotor current : 214/107 A  
 Locked rotor current (I<sub>L</sub>/I<sub>n</sub>) : 6.0  
 No-load current : 16.0/8.00 A  
 Full load torque : 44.0 lb.ft  
 Locked rotor torque : 230 %  
 Breakdown torque : 260 %  
 Design : B  
 Insulation class : F  
 Temperature rise : 80 K  
 Locked rotor time : 15 s (hot)  
 Service factor : 1.25  
 Duty cycle : S1  
 Ambient temperature : -20°C - +40°C  
 Altitude : 1000 m  
 Degree of Protection : IP55  
 Approximate weight : 227 lb  
 Moment of inertia : 2.3818 sq.ft.lb  
 Noise level : 64 dB(A)

	D.E.	N.D.E.
Bearings	6309 C3	6209 C3
Regreasing interval	20000 h	20000 h
Grease amount	13 g	9 g

Load	Power factor	Efficiency (%)
100%	0.84	91.0
75%	0.80	91.0
50%	0.68	90.2

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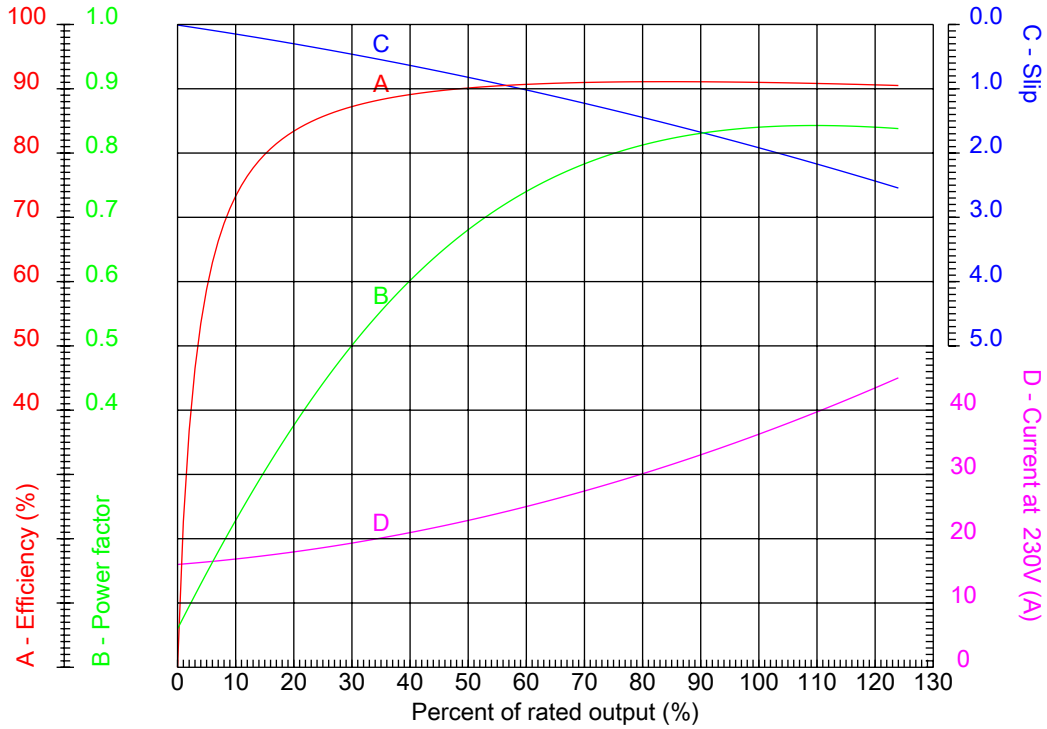
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## PERFORMANCE CURVES RELATED TO RATED OUTPUT

Three-phase induction motor - Squirrel cage rotor



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

Frame	: 254JP	Locked rotor current (I <sub>l</sub> /I <sub>n</sub> )	: 6.0
Output	: 15 HP	Duty cycle	: S1
Frequency	: 60 Hz	Service factor	: 1.25
Full load speed	: 1765 rpm	Design	: B
Voltage	: 230/460 V	Locked rotor torque	: 230 %
Rated current	: 35.6/17.8 A	Breakdown torque	: 260 %
Insulation class	: F		

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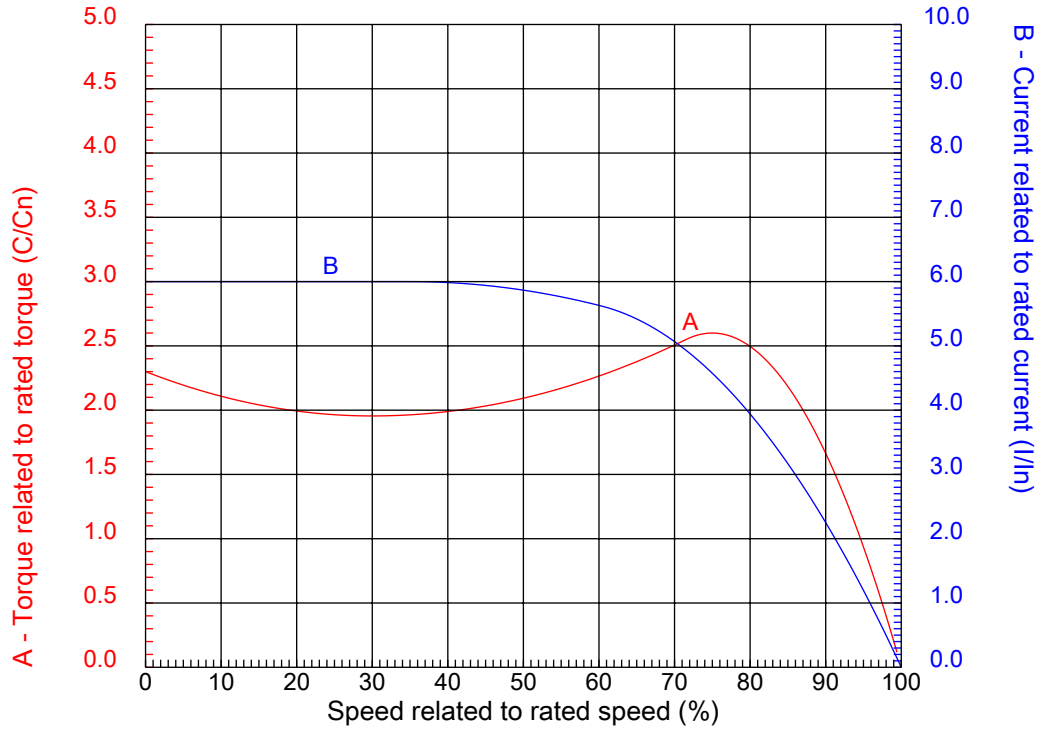
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## CHARACTERISTIC CURVES RELATED TO SPEED

Three-phase induction motor - Squirrel cage rotor



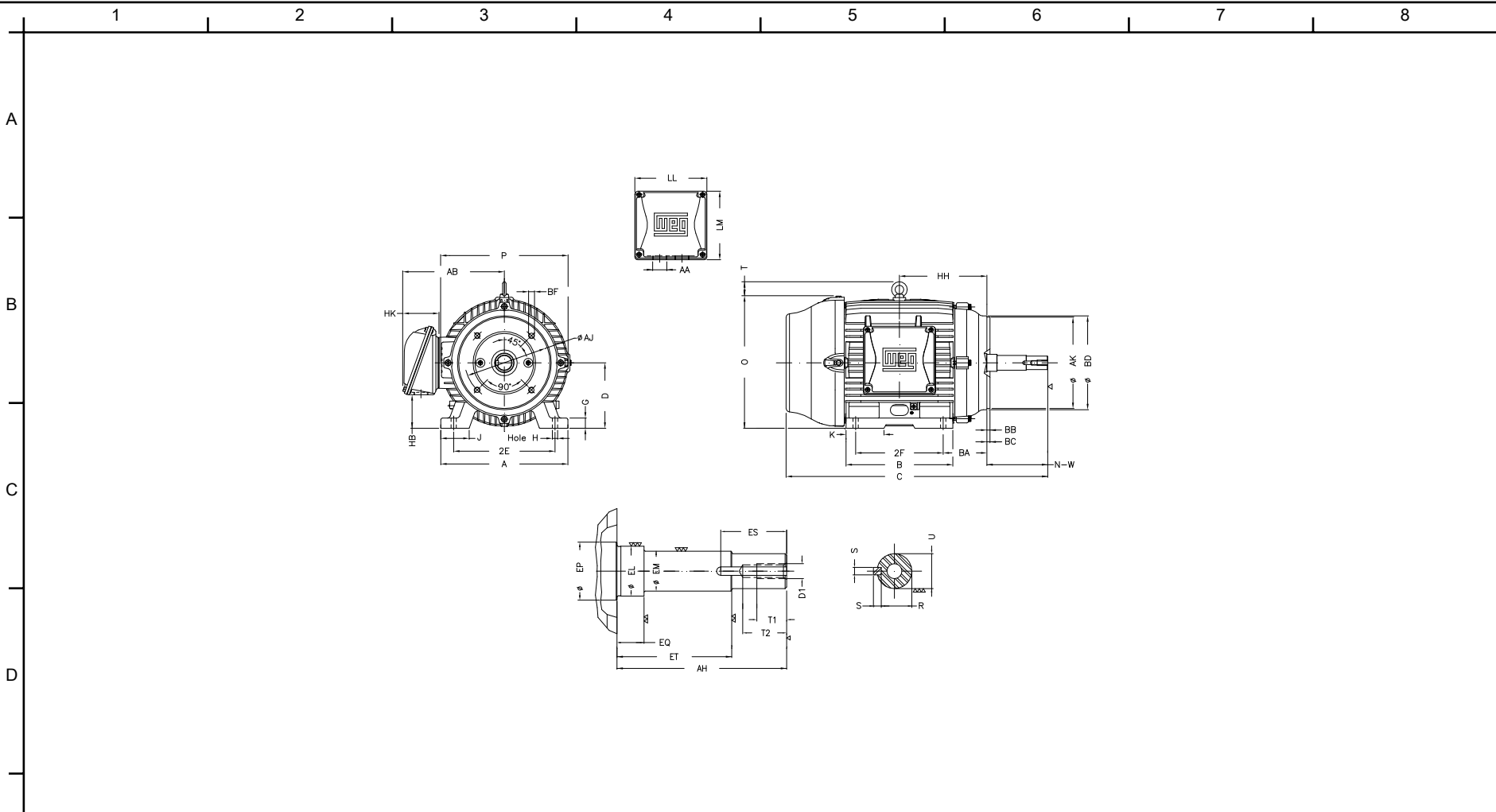
Customer :  
 Product line : Close Coupled Pump: Three-Phase - W22 "JP" Type - TEFC - High Efficiency

Frame	: 254JP	Locked rotor current (I <sub>l</sub> /I <sub>n</sub> )	: 6.0
Output	: 15 HP	Duty cycle	: S1
Frequency	: 60 Hz	Service factor	: 1.25
Full load speed	: 1765 rpm	Design	: B
Voltage	: 230/460 V	Locked rotor torque	: 230 %
Rated current	: 35.6/17.8 A	Breakdown torque	: 260 %
Insulation class	: F		

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2E	J	A	P	AB
10.000	2.539	12.126	12.953	10.483
2F	K	B	BA	D
8.252	2.559	10.000	4.250	6.250
G	O	T	H	AA
0.827	12.598	2.087	0.531	NPT 1 1/2"
EQ	ET	U	EM	EL
2.382	5.886	1.249	1.375	1.750
EP	ES	t1	t2	C
1.770	2.480	0.984	1.496	27.358
d1	HH	HK	HB	LL
EUNC 1/2"-13	8.376	3.976	3.061	7.815
LM	S	R	Flange	AJ
7.480	0.250	1.110	FC-184	7.252
AK	BD	BF	BB	AH
8.500	8.858	UNC 1/2"x13	0.248	8.130

Performed by:

Checked:

Customer:

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

Three-phase induction motor  
 Frame 254JP - IP55

23-SEP-2016

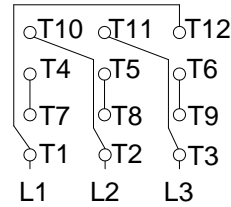
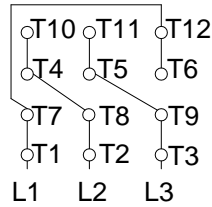


1 2 3 4 5 6 7 8

A  
B  
C  
D  
E  
F

LOW VOLTAGE

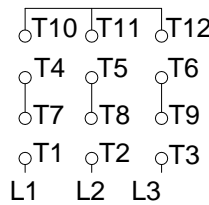
HIGH VOLTAGE



CONNECTIONS FOR STARTING ONLY:

LOW VOLTAGE

HIGH VOLTAGE



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Three-phase induction motor  
Frame 254JP - IP55

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