



No.:

Date: 30-JUN-2015

Customer : SPP Pumps Ltd

TECHNICAL PROPOSAL

Three-phase induction motor - Squirrel cage rotor

Product line : W22 - Cast Iron Frame - Standard Efficiency - IE1

Catalog Number :

List Price : \$

Notes:

160 kW 2 pole, IE1 TEFV WEG motor
400/3/50

Performed by:
J Smith

Checked:



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DATA SHEET

Three-phase induction motor - Squirrel cage rotor

Customer : SPP Pumps Ltd
Product line : W22 - Cast Iron Frame - Standard Efficiency - IE1

Frame : 315S/M
Output : 160 kW
Frequency : 50 Hz
Poles : 2
Full load speed : 2980
Slip : 0.67 %
Voltage : 400/690 V
Rated current : 272/158 A
Locked rotor current : 2070/1200 A
Locked rotor current (I_L/I_n) : 7.6
No-load current : 82.0/47.5 A
Full load torque : 513 Nm
Locked rotor torque : 200 %
Breakdown torque : 280 %
Design : ---
Insulation class : F
Temperature rise : 80 K
Locked rotor time : 21 s (hot)
Service factor : 1.00
Duty cycle : S1
Ambient temperature : -20°C - +40°C
Altitude : 1000
Degree of Protection : IP55
Approximate weight : 950 kg
Moment of inertia : 2.0356 kgm²
Noise level : 77 dB(A)

	D.E.	N.D.E.
Bearings	6314 C3	6314 C3
Regreasing interval	5000 h	5000 h
Grease amount	27 g	27 g

Load	Power factor	Efficiency (%)
100%	0.90	94.5
75%	0.87	94.5
50%	0.80	94.0

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Efficiencies according to the indirect method of IEC 60034-2-1:2007 with stray load losses determined from measurement.

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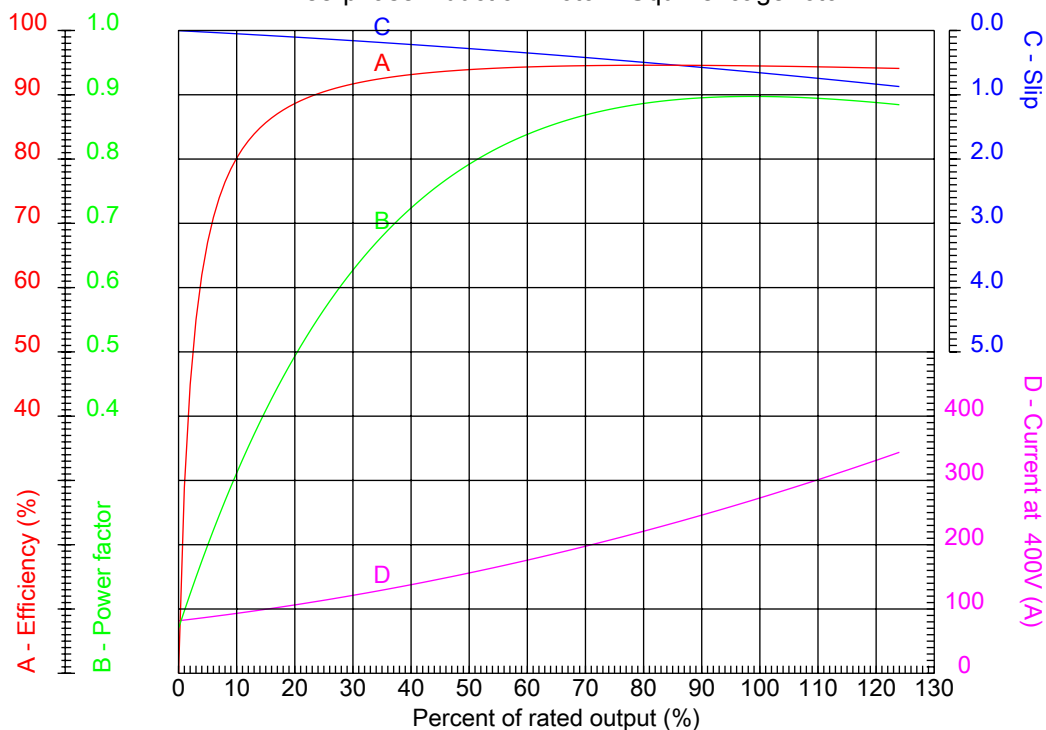


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PERFORMANCE CURVES RELATED TO RATED OUTPUT

Three-phase induction motor - Squirrel cage rotor



Customer : SPP Pumps Ltd
Product line : W22 - Cast Iron Frame - Standard Efficiency - IE1

Frame	: 315S/M	Locked rotor current (I _L /I _n)	: 7.6
Output	: 160 kW	Duty cycle	: S1
Frequency	: 50 Hz	Service factor	: 1.00
Full load speed	: 2980	Design	: ---
Voltage	: 400/690 V	Locked rotor torque	: 200 %
Rated current	: 272/158 A	Breakdown torque	: 280 %
Insulation class	: F		

Notes:
160 kW 2 pole, IE1 TEFV WEG motor
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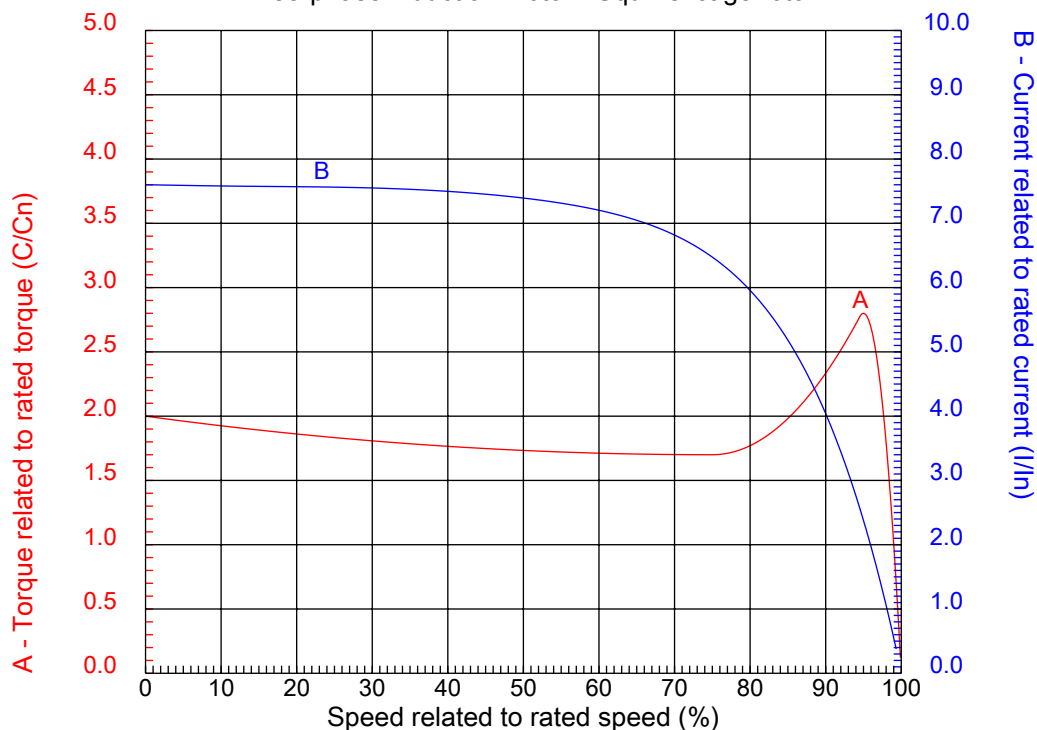


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CHARACTERISTIC CURVES RELATED TO SPEED

Three-phase induction motor - Squirrel cage rotor



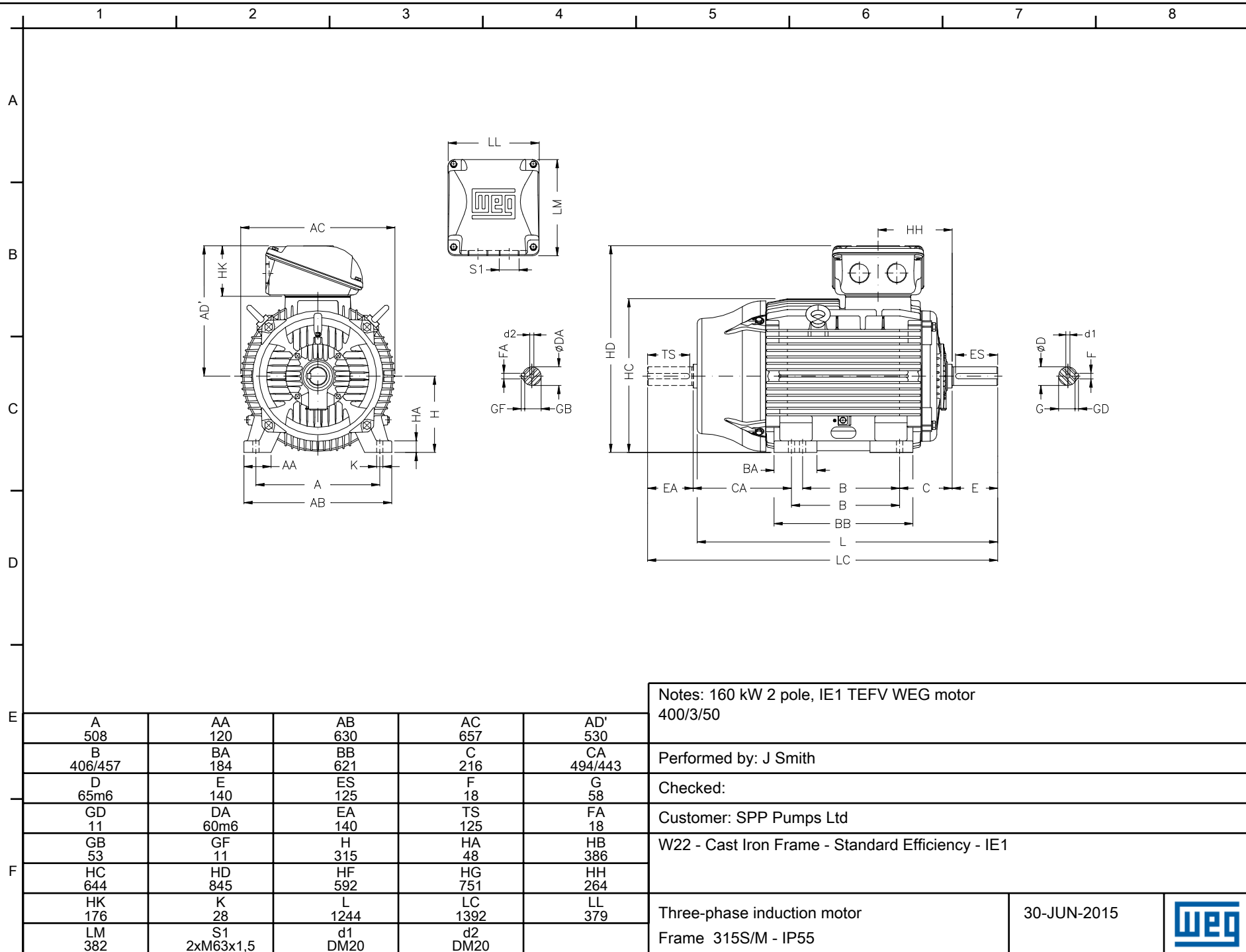
Customer	: SPP Pumps Ltd
Product line	: W22 - Cast Iron Frame - Standard Efficiency - IE1

Frame	: 315S/M	Locked rotor current (I _L /I _n)	: 7.6
Output	: 160 kW	Duty cycle	: S1
Frequency	: 50 Hz	Service factor	: 1.00
Full load speed	: 2980	Design	: ---
Voltage	: 400/690 V	Locked rotor torque	: 200 %
Rated current	: 272/158 A	Breakdown torque	: 280 %
Insulation class	: F		

Notes:
160 kW 2 pole, IE1 TEFV WEG motor
400/3/50

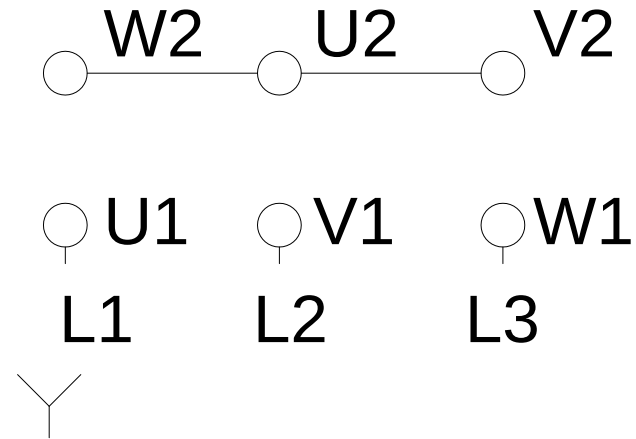
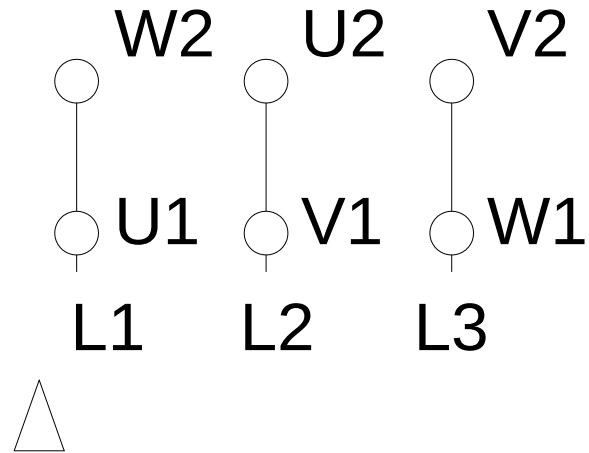
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LOW VOLTAGE

HIGH VOLTAGE



Notes: 160 kW 2 pole, IE1 TEFV WEG motor
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W22 - Cast Iron Frame - Standard Efficiency - IE1

Three-phase induction motor
Frame 315S/M - IP55

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