



WEG (UK) Limited

No.: 05872

Date: 10-MAR-2014

DATA SHEET

Three-phase induction motor - Squirrel cage rotor

Customer : The Inverter Supermarket
Product line : W22 - Cast Iron Frame - Premium Efficiency - IE3

Frame : 100L
Output : 3 kW
Frequency : 50 Hz
Poles : 2
Full load speed : 2910
Slip : 3.00 %
Voltage : 230/400 V
Rated current : 10.0/5.77 A
Locked rotor current : 85.3/49.0 A
Locked rotor current (I_L/I_n) : 8.5
No-load current : 4.52/2.60 A
Full load torque : 9.85 Nm
Locked rotor torque : 340 %
Breakdown torque : 340 %
Design : N
Insulation class : F
Temperature rise : 80 K
Locked rotor time : 15 s (hot)
Service factor : 1.00
Duty cycle : S1
Ambient temperature : -20°C - +40°C
Altitude : 1000
Degree of Protection : IP55
Approximate weight : 32 kg
Moment of inertia : 0.00641 kgm²
Noise level : 67 dB(A)

	D.E.	N.D.E.
Bearings	6206 ZZ	6205 ZZ
Regreasing interval	---	---
Grease amount	---	---

Load	Power factor	Efficiency (%)
100%	0.86	87.3
75%	0.81	87.3
50%	0.69	85.5

Notes:

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

Performed by
B. Bhamra

Checked



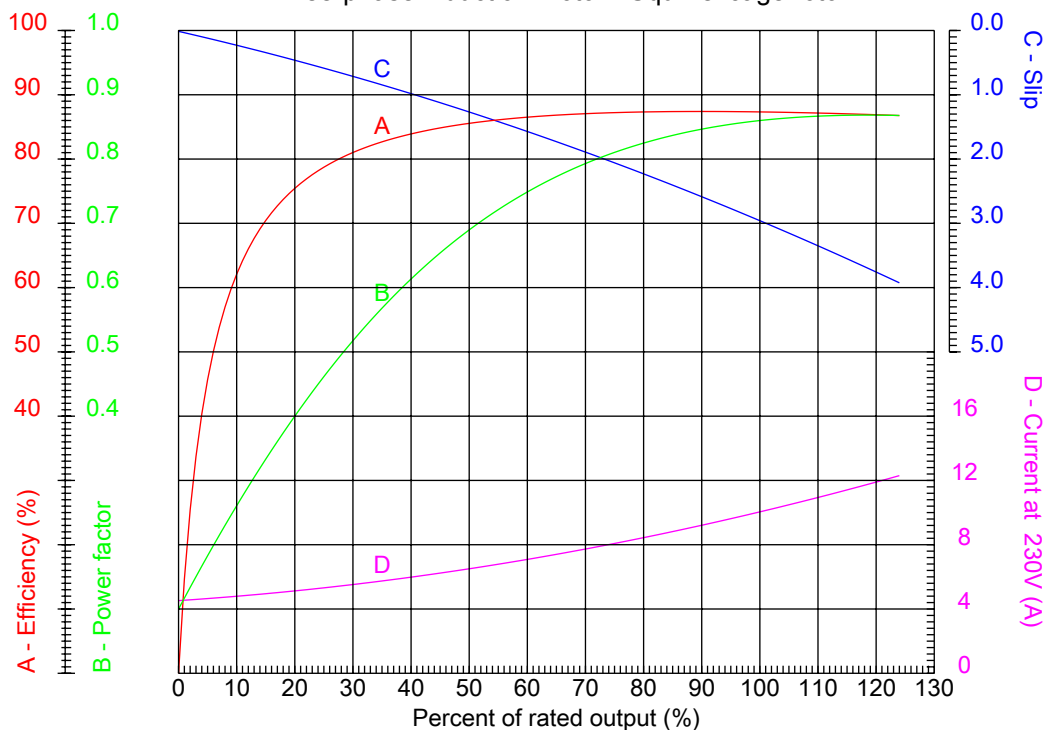
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PERFORMANCE CURVES RELATED TO RATED OUTPUT

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Frame	: 100L	Locked rotor current (I _L /I _n)	: 8.5
Output	: 3 kW	Duty cycle	: S1
Frequency	: 50 Hz	Service factor	: 1.00
Full load speed	: 2910	Design	: N
Voltage	: 230/400 V	Locked rotor torque	: 340 %
Rated current	: 10.0/5.77 A	Breakdown torque	: 340 %
Insulation class	: F		

Notes:

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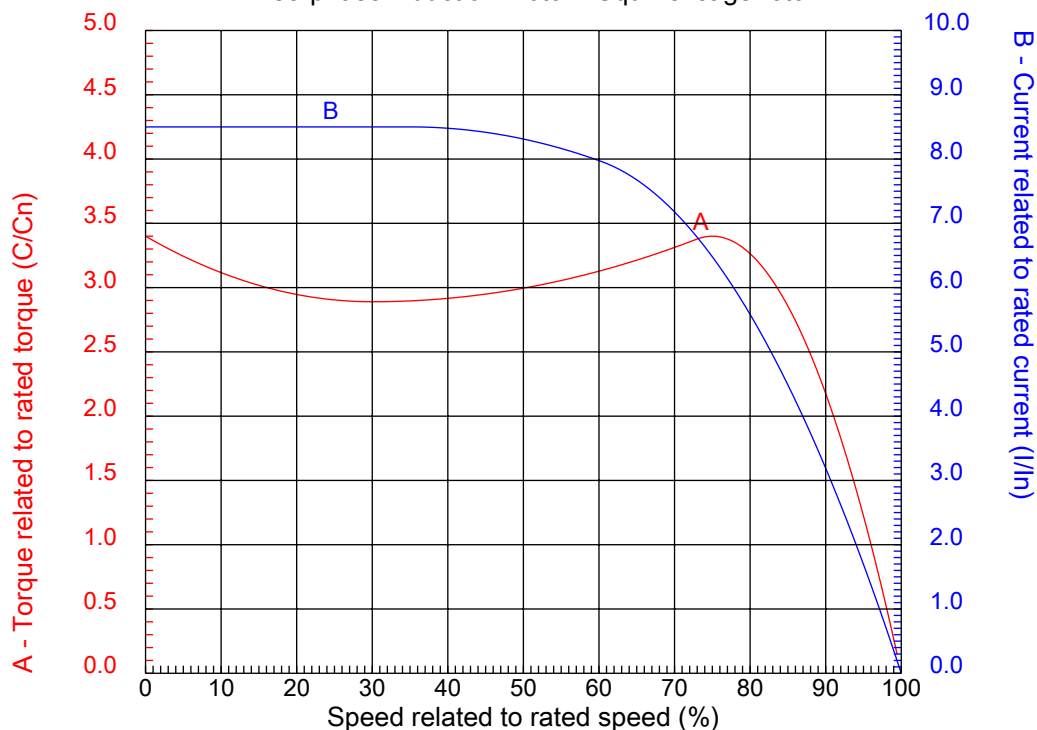
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CHARACTERISTIC CURVES RELATED TO SPEED

Three-phase induction motor - Squirrel cage rotor



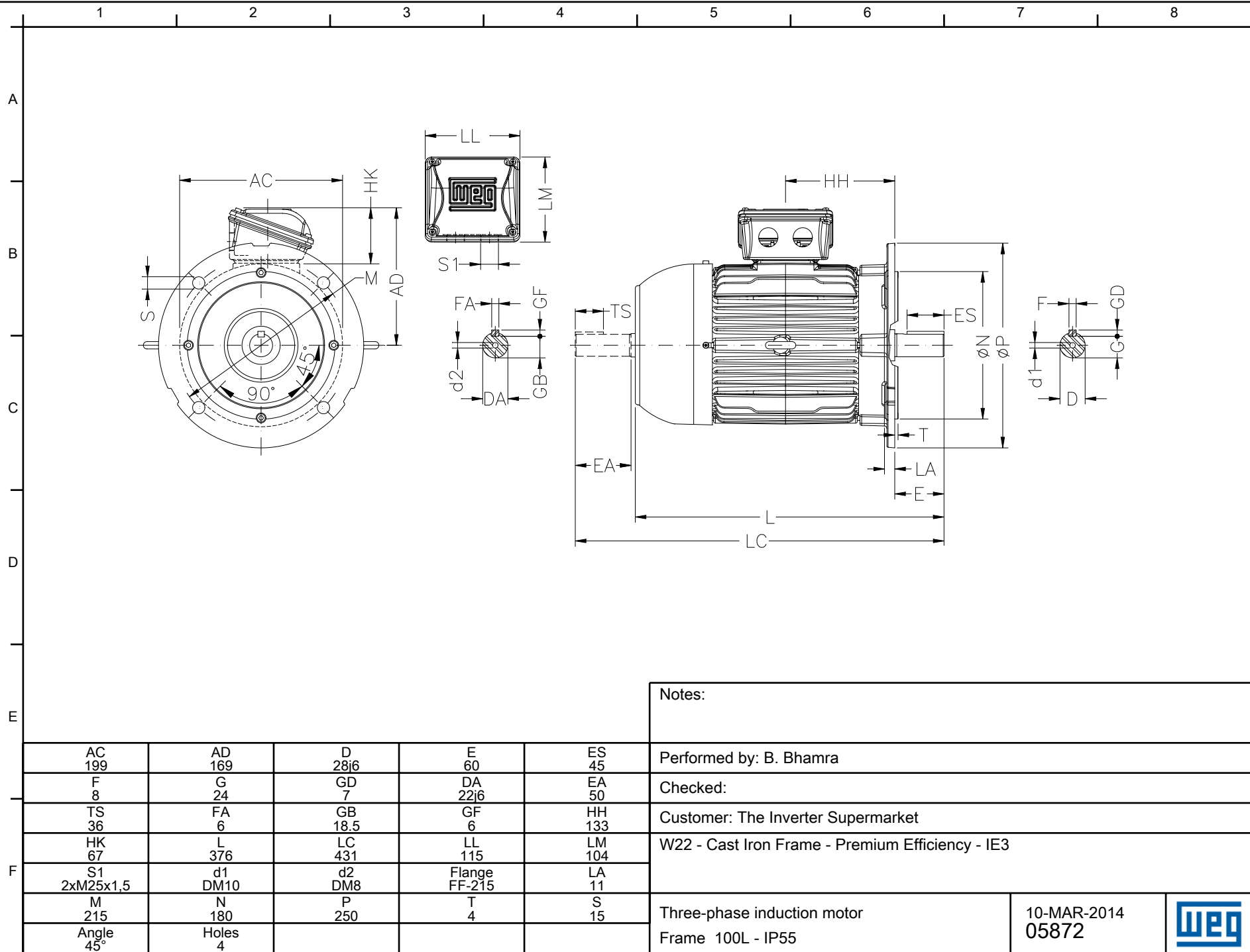
Customer : The Inverter Supermarket
Product line : W22 - Cast Iron Frame - Premium Efficiency - IE3

Frame	: 100L	Locked rotor current (I _L /I _n)	: 8.5
Output	: 3 kW	Duty cycle	: S1
Frequency	: 50 Hz	Service factor	: 1.00
Full load speed	: 2910	Design	: N
Voltage	: 230/400 V	Locked rotor torque	: 340 %
Rated current	: 10.0/5.77 A	Breakdown torque	: 340 %
Insulation class	: F		

Notes:

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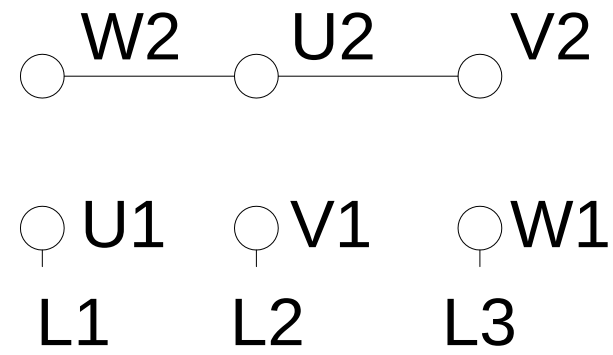
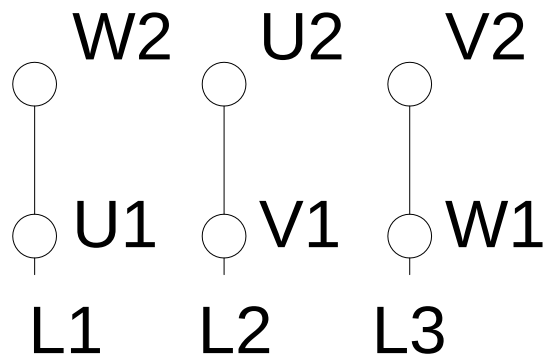


Notes:			
Performed by: B. Bhamra			
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W22 - Cast Iron Frame - Premium Efficiency - IE3			
Three-phase induction motor Frame 100L - IP55		10-MAR-2014 05872	

AC	AD	D	E	ES
199	169	28j6	60	45
F	G	GD	DA	EA
8	24	7	22j6	50
TS	FA	GB	GF	HH
36	6	18.5	6	133
HK	L	LC	LL	LM
67	376	431	115	104
S1	d1	d2	Flange	LA
2xM25x1,5	DM10	DM8	FF-215	11
M	N	P	T	S
215	180	250	4	15
Angle	Holes			
45°	4			

LOW VOLTAGE

HIGH VOLTAGE



Notes:

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Three-phase induction motor
Frame 100L - IP55

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