



ERIKS bv

No.: 12552073

Date: 04-JAN-2014

Customer :

TECHNICAL PROPOSAL

Three-phase induction motor - Squirrel cage rotor

Product line : W21 - Aluminium Frame - High Efficiency - IE2

Catalog Number :

List Price : \$

Notes:

Performed by:  
R.M. Hoogeveen

Checked:



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## DATA SHEET

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

Customer :  
Product line : W21 - Aluminium Frame - High Efficiency - IE2

Frame : 80  
Output : 0.55 kW  
Frequency : 50 Hz  
Poles : 4  
Full load speed : 1420  
Slip : 5.33 %  
Voltage : 230/400 V  
Rated current : 2.28/1.31 A  
Locked rotor current : 13.7/7.86 A  
Locked rotor current (I<sub>L</sub>/I<sub>n</sub>) : 6.0  
No-load current : 1.74/1.00 A  
Full load torque : 3.70 Nm  
Locked rotor torque : 220 %  
Breakdown torque : 250 %  
Design : N  
Insulation class : F  
Temperature rise : 80 K  
Locked rotor time : 18 s (hot)  
Service factor : 1.00  
Duty cycle : S1  
Ambient temperature : -20°C - +40°C  
Altitude : 1000  
Degree of Protection : IP55  
Approximate weight : 15 kg  
Moment of inertia : 0.00289 kgm<sup>2</sup>  
Noise level : 44 dB(A)

	D.E.	N.D.E.	Load	Power factor	Efficiency (%)
Bearings	6204 ZZ	6203 ZZ	100%	0.82	74.0
Regreasing interval	---	---	75%	0.73	73.8
Grease amount	---	---	50%	0.60	72.0

Notes:

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

Performed by  
R.M. Hoogeveen

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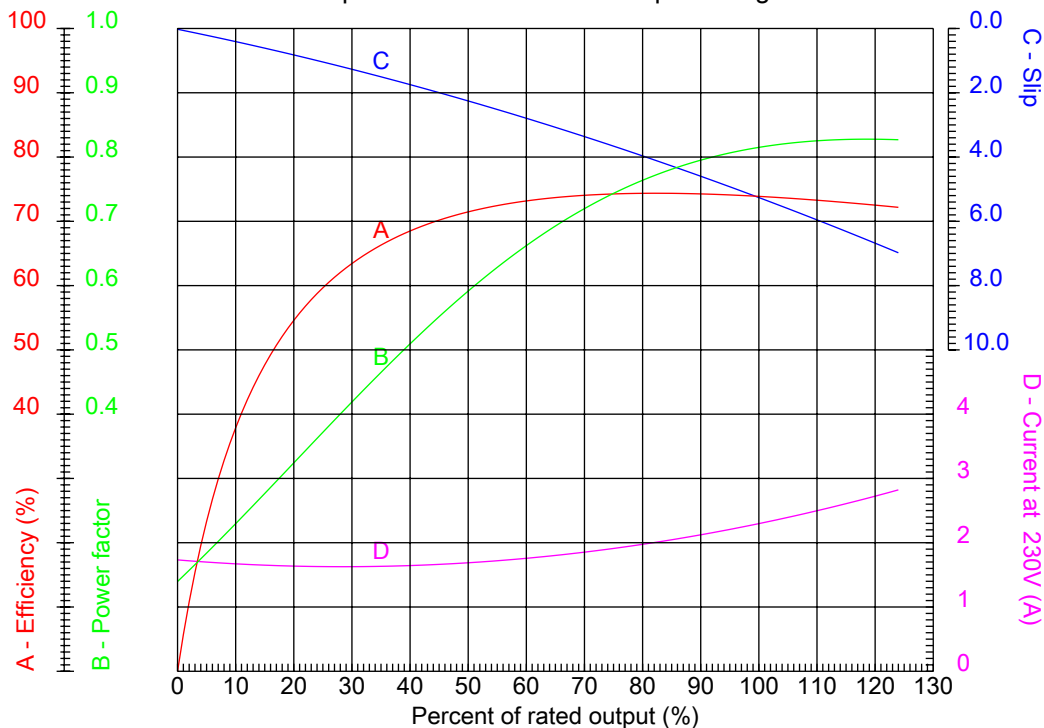


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PERFORMANCE CURVES RELATED TO RATED OUTPUT  
Three-phase induction motor - Squirrel cage rotor



Customer :  
Product line : W21 - Aluminium Frame - High Efficiency - IE2

Frame : 80	Locked rotor current (I <sub>l</sub> /I <sub>n</sub> ) : 6.0
Output : 0.55 kW	Duty cycle : S1
Frequency : 50 Hz	Service factor : 1.00
Full load speed : 1420	Design : N
Voltage : 230/400 V	Locked rotor torque : 220 %
Rated current : 2.28/1.31 A	Breakdown torque : 250 %
Insulation class : F	

Notes:

Performed by  
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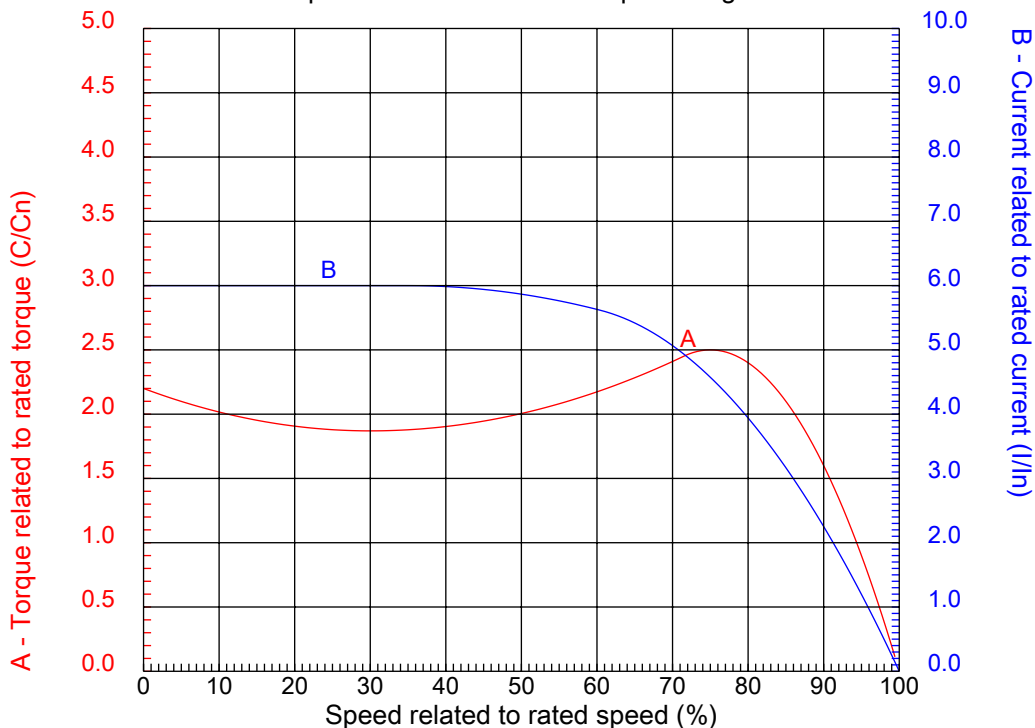


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CHARACTERISTIC CURVES RELATED TO SPEED  
Three-phase induction motor - Squirrel cage rotor



Customer :  
Product line : W21 - Aluminium Frame - High Efficiency - IE2

Frame	: 80	Locked rotor current (I <sub>l</sub> /I <sub>n</sub> )	: 6.0
Output	: 0.55 kW	Duty cycle	: S1
Frequency	: 50 Hz	Service factor	: 1.00
Full load speed	: 1420	Design	: N
Voltage	: 230/400 V	Locked rotor torque	: 220 %
Rated current	: 2.28/1.31 A	Breakdown torque	: 250 %
Insulation class	: F		

Notes:

Performed by  
R.M. Hoogveen

Checked

1 2 3 4 5 6 7 8

A

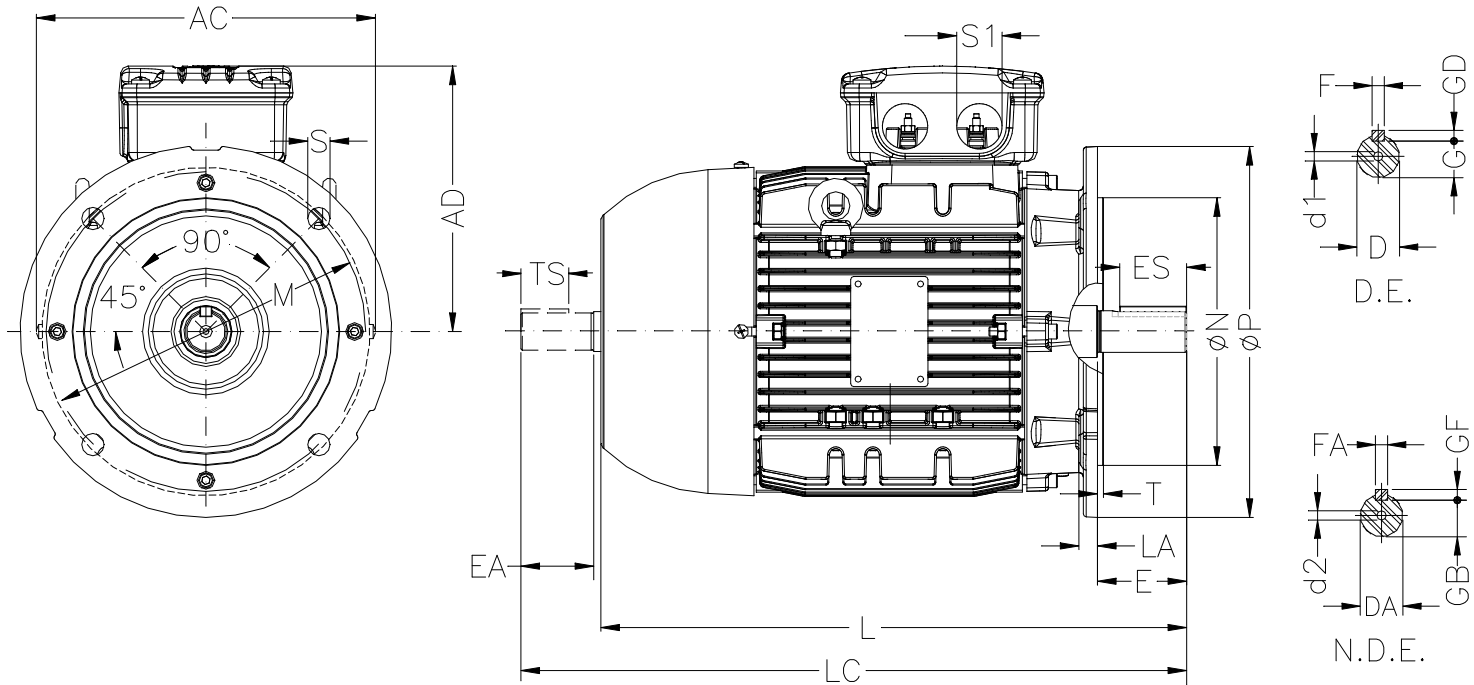
B

C

D

E

F



Notes:

Performed by: R.M. Hoogeveen

Checked:

Customer:

W21 - Aluminium Frame - High Efficiency - IE2

Three-phase induction motor

Frame 80 - IP55

04-JAN-2014  
12552073



AC	ES	GD	F	DA
159	28	6	6	14j6
E	D	EA	G	TS
40	19j6	30	15.5	18
FA	AD	GB	GF	L
5	136	11	5	276
LC	S1	d1	d2	Flange
313	2XM20X1,5	DM6	DM4	FF-165
LA	M	N	P	T
10	165	130	200	3.5
S	Angle	Holes		
12	45°	4		

1 2 3 4 5 6 7 8

A

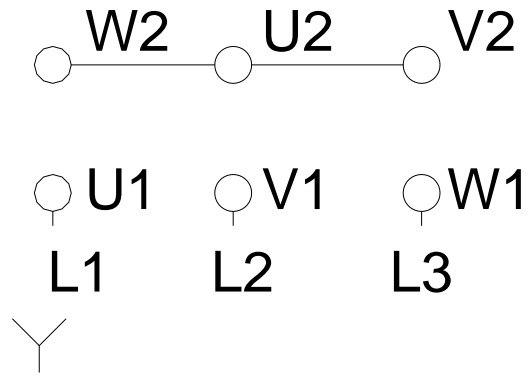
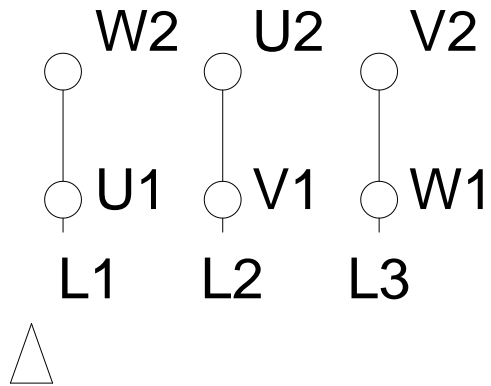
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Notes:		
Performed by: R.M. Hoogeveen		
Checked:		
Customer:		
W21 - Aluminium Frame - High Efficiency - IE2		
Three-phase induction motor Frame 80 - IP55	04-JAN-2014 12552073	