



No.:

Date: 14-OCT-2019

Customer : ROSHD SANAT NIROO

TECHNICAL PROPOSAL

Three-phase induction motor - Squirrel cage rotor

Product line : W22 - Cast Iron Frame - Premium Efficiency - IE3

Catalog Number :

List Price : \$

Notes:

Performed by:

Checked:



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DATA SHEET

Three-phase induction motor - Squirrel cage rotor

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

Frame : 315S/M
Output : 110 kW
Frequency : 50 Hz
Poles : 4
Full load speed : 1490 rpm
Slip : 0.67 %
Voltage : 400/690 V
Rated current : 193/112 A
Locked rotor current : 1430/828 A
Locked rotor current (I_L/I_n) : 7.4
No-load current : 68.0/39.4 A
Full load torque : 705 Nm
Locked rotor torque : 250 %
Breakdown torque : 260 %
Design : ---
Insulation class : F
Temperature rise : 80 K
Locked rotor time : 33 s (hot)
Service factor : 1.00
Duty cycle : S1
Ambient temperature : -20°C - +40°C
Altitude : 1000 m
Degree of Protection : IP55
Approximate weight : 974 kg
Moment of inertia : 2.8933 kgm²
Noise level : 71 dB(A)

	D.E.	N.D.E.
Bearings	6319 C3	6316 C3
Regreasing interval	11000 h	13000 h
Grease amount	45 g	34 g

Load	Power factor	Efficiency (%)
100%	0.86	95.6
75%	0.82	95.5
50%	0.74	94.7

Notes:

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

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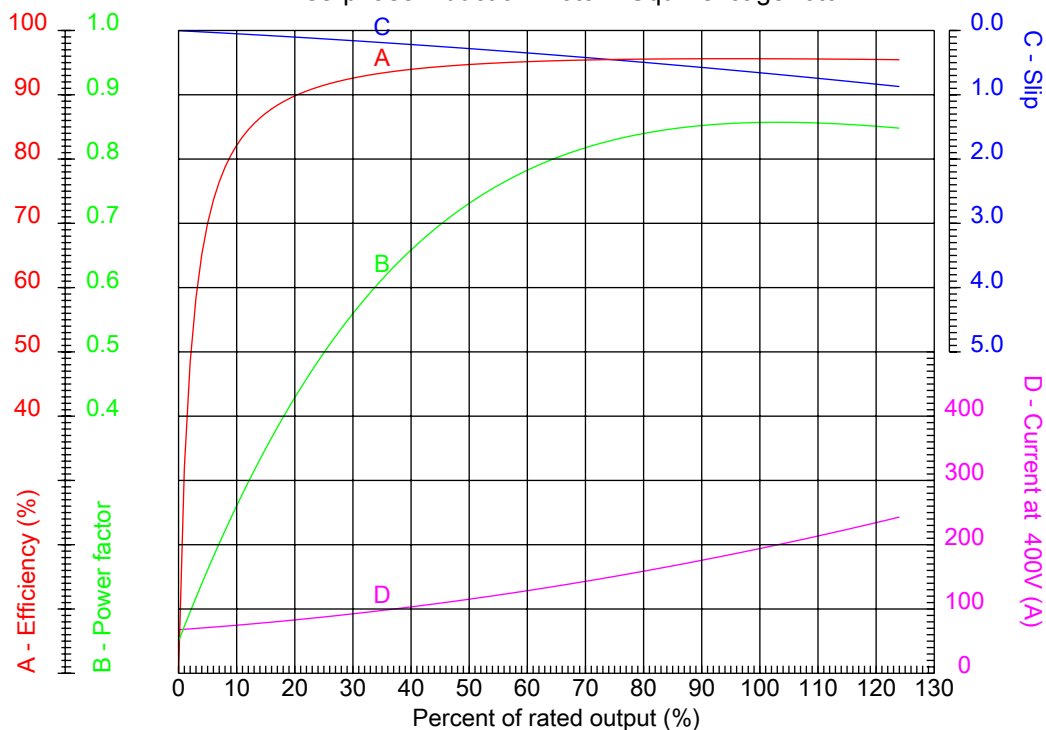


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PERFORMANCE CURVES RELATED TO RATED OUTPUT

Three-phase induction motor - Squirrel cage rotor



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

Frame	: 315S/M	Locked rotor current (I _L /I _n)	: 7.4
Output	: 110 kW	Duty cycle	: S1
Frequency	: 50 Hz	Service factor	: 1.00
Full load speed	: 1490 rpm	Design	: ---
Voltage	: 400/690 V	Locked rotor torque	: 250 %
Rated current	: 193/112 A	Breakdown torque	: 260 %
Insulation class	: F		

Notes:

Performed by

Checked

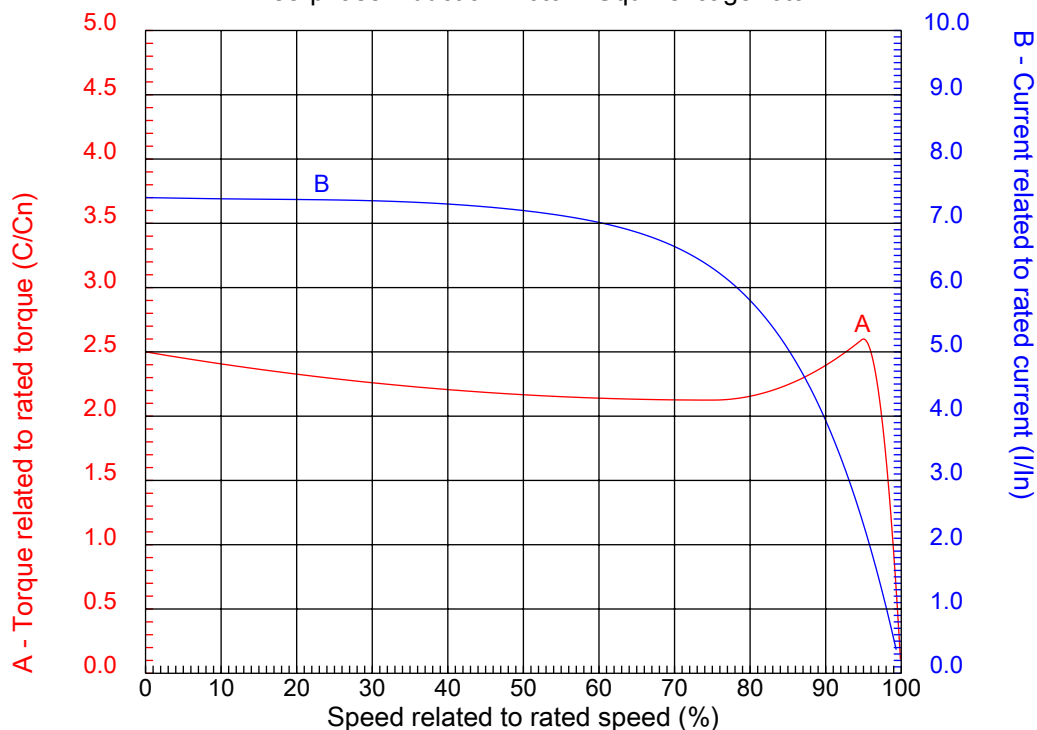


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CHARACTERISTIC CURVES RELATED TO SPEED

Three-phase induction motor - Squirrel cage rotor



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

Frame	: 315S/M	Locked rotor current (I _L /I _n)	: 7.4
Output	: 110 kW	Duty cycle	: S1
Frequency	: 50 Hz	Service factor	: 1.00
Full load speed	: 1490 rpm	Design	: ---
Voltage	: 400/690 V	Locked rotor torque	: 250 %
Rated current	: 193/112 A	Breakdown torque	: 260 %
Insulation class	: F		

Notes:

Performed by

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