



No.:

Date: 07-SEP-2021

Customer :

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:



No.:

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DATA SHEET

Three-phase induction motor - Squirrel cage rotor

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

Frame : 250S/M
Output : 55 kW
Frequency : 50 Hz
Poles : 4
Full load speed : 1482 rpm
Slip : 1.20 %
Voltage : 400/690 V
Rated current : 98.7/57.2 A
Locked rotor current : 760/441 A
Locked rotor current (I_L/I_n) : 7.7
No-load current : 39.0/22.6 A
Full load torque : 355 Nm
Locked rotor torque : 270 %
Breakdown torque : 300 %
Design : ---
Insulation class : F
Temperature rise : 80 K
Locked rotor time : 16 s (hot)
Service factor : 1.00
Duty cycle : S1
Ambient temperature : -20°C - +40°C
Altitude : 1000 m
Degree of Protection : IP55
Approximate weight : 500 kg
Moment of inertia : 1.0498 kgm²
Noise level : 64 dB(A)

	D.E.	N.D.E.	Load	Power factor	Efficiency (%)
Bearings	6314 C3	6314 C3	100%	0.85	94.6
Regreasing interval	14000 h	14000 h	75%	0.80	94.6
Grease amount	27 g	27 g	50%	0.69	94.3

Notes:

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

Performed by

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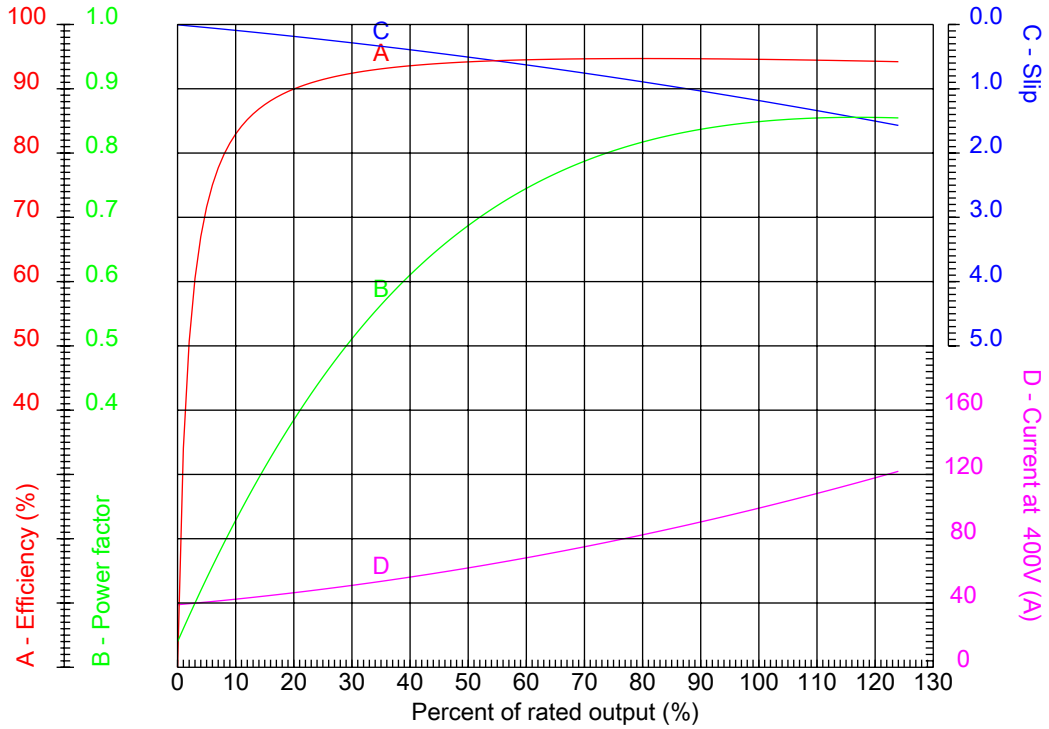


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PERFORMANCE CURVES RELATED TO RATED OUTPUT

Three-phase induction motor - Squirrel cage rotor



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

Frame	: 250S/M	Locked rotor current (I _l /I _n)	: 7.7
Output	: 55 kW	Duty cycle	: S1
Frequency	: 50 Hz	Service factor	: 1.00
Full load speed	: 1482 rpm	Design	: ---
Voltage	: 400/690 V	Locked rotor torque	: 270 %
Rated current	: 98.7/57.2 A	Breakdown torque	: 300 %
Insulation class	: F		

Notes:

Performed by

Checked

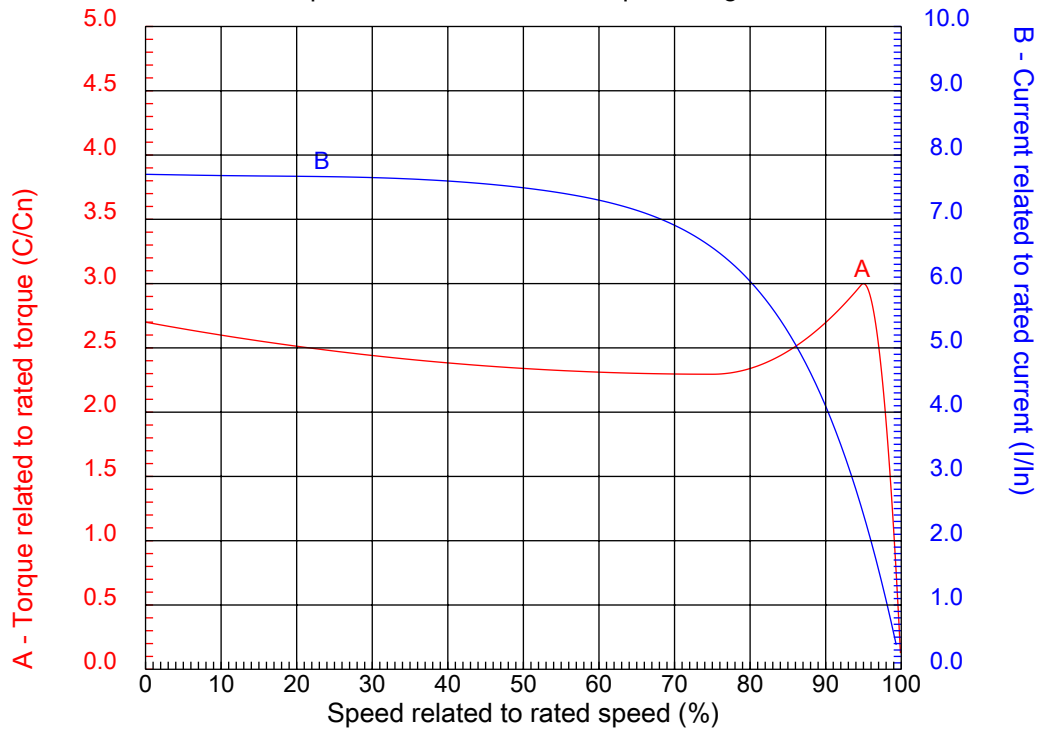


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CHARACTERISTIC CURVES RELATED TO SPEED

Three-phase induction motor - Squirrel cage rotor



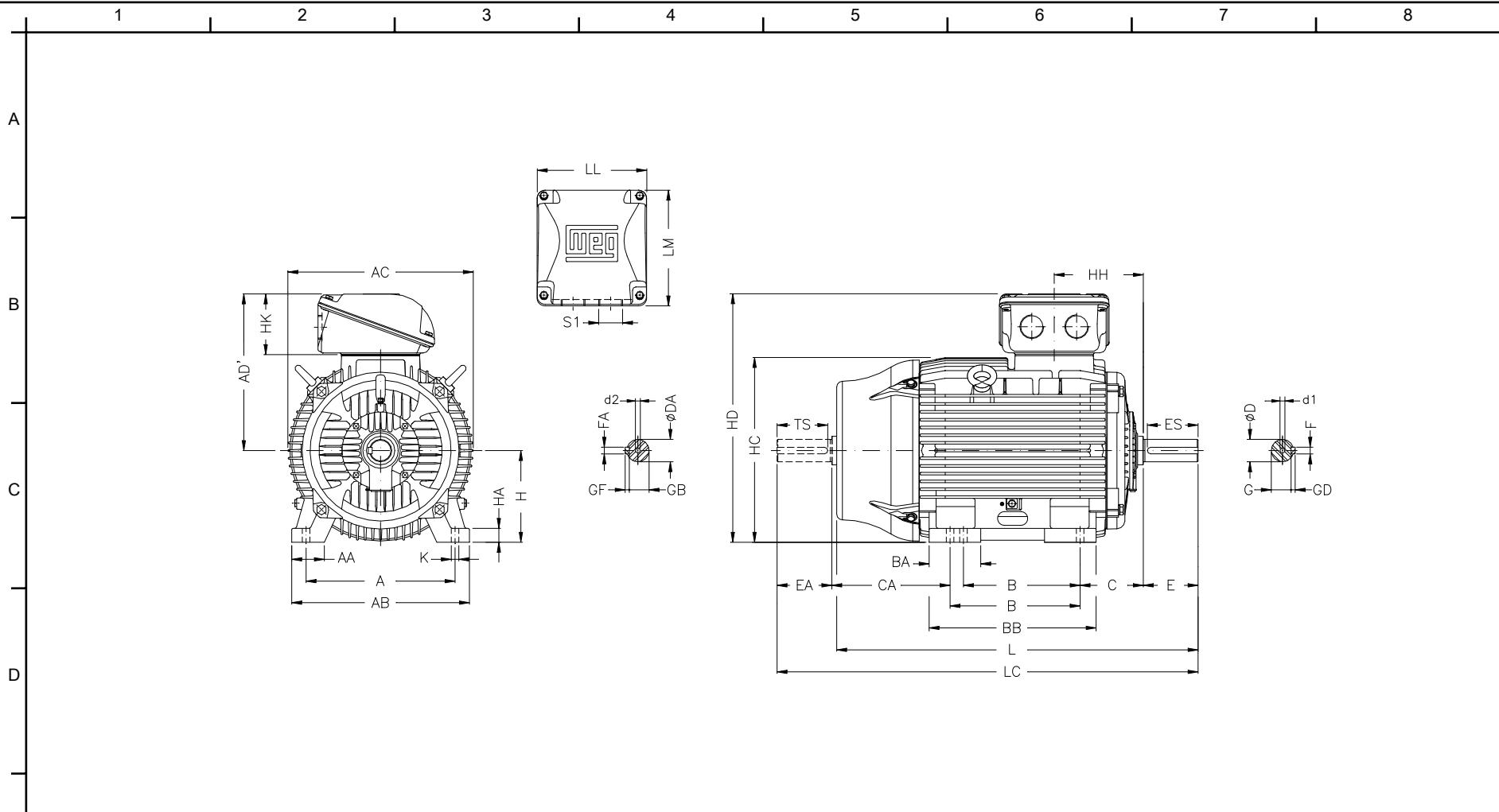
Customer :
Product line : W22 - Cast Iron Frame - Premium Efficiency - IE3

Frame	: 250S/M	Locked rotor current (I _l /I _n)	: 7.7
Output	: 55 kW	Duty cycle	: S1
Frequency	: 50 Hz	Service factor	: 1.00
Full load speed	: 1482 rpm	Design	: ---
Voltage	: 400/690 V	Locked rotor torque	: 270 %
Rated current	: 98.7/57.2 A	Breakdown torque	: 300 %
Insulation class	: F		

Notes:

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E	A 406	AA 100	AB 506	AC 486	AD' 398
	B 311/349	BA 146	BB 467	C 168	CA 354/316
	D 65m6	E 140	ES 125	F 18	G 58
	GD 11	DA 60m6	EA 140	TS 125	FA 18
	GB 53	GF 11	H 250	HA 43	HB 297
F	HC 493	HD 648	HF 463	HG 577	HH 214
	HK 153	K 24	L 965	LC 1113	LL 269
	LM 285	S1 2xM63x1.5	d1 DM20	d2 DM20	

Notes:	
Performed by:	
Checked:	
Customer:	
W22 - Cast Iron Frame - Premium Efficiency - IE3	
Three-phase induction motor Frame 250S/M - IP55	07-SEP-2021

