



Customer information packet

ECR582506-PPN

M3BN 587MLB 6P B3 250HP



PERFORMANCE DATA OF MOTOR

Classifying code or document type

ABB Oy Motors & Generators

Department/Author	Date of Issue	Lang.	Rev. date	Our ref.	Pages
MLA000/TISA	11.10.2018	EN		3GZF021035-1240	1/3
Customer ref.	Saving Ident			Rev./Changed by	
	TMAA-ASUG9J-TISA33			A	

Driven Motor:

Catalog Number	ECR582506-PPN				
Motor type code	M3BN 587 MLB 6K				
Motor product code	3GBN983420-ADKBA01				
Motor type	Squirrel cage Motor				
Mounting designation	IM 1001				
Protected by enclosure	IP66				
Method of cooling	TEFC				
Insulation	Class F (Shock Resistant)				
Service factor	SF1.15 TEMP RISE CLASS F				
Standards	NEMA				
International efficiency classification (IEC 60034-30)	IE3				
Ambient temperature, max.	40 °C				
Altitude, max.	3280 ft.a.s.l.				
Duty type	Continuous				
Temp. rise	Class B				
Connection of stator winding	Delta				
Rated output	250 HP				
Voltage	460 V				
Frequency	60 Hz				
Speed	1195 r/min				
Current	295 Amps				
Locked rotor Amps	690 %				
Locked rotor torque	200 %				
Breakdown torque	250 %				
No load current	104 Amps				
Rated torque	1102 lb-ft				
Load characteristics	Load %	Current Amps	Efficiency %	Power Factor	
	100	295	95,8	0,83	
	75	229	96,1	0,80	
	50	171	95,5	0,72	

Typical calculated values to NEMA. –

-Nema Nominal Eff. 95.8%

ABB Oy

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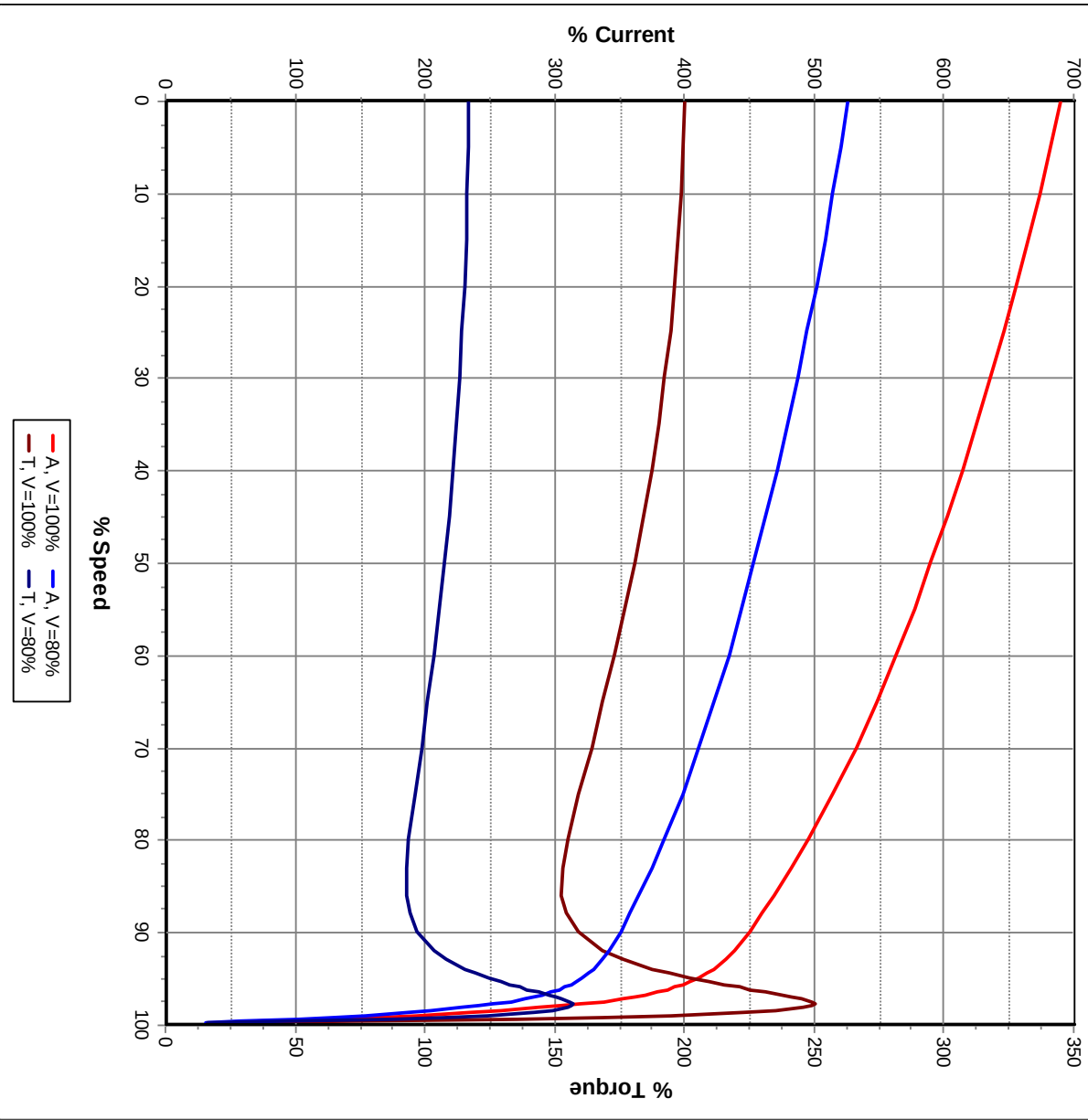
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MLA000/TISA	11.10.2018	En		3GZF021035-1240	
Customer ref.	Saving Ident			Rev./Changed by	Pages
	TMAA-ASUG9J-TISA33			A	2/3

Motor type code: M3BN 587 MLB 6K

Rated output	251 HP	Power Factor	0,83
Voltage	460 V	Rated torque	1102 lb-ft
Frequency	60 Hz	Locked rotor Amps	690 %
Speed	1195 r/min	Locked rotor torque	200 %
Current	295 Amps	Breakdown torque	250 %

Torque and Current vs. Speed



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PWM

Switch. freq. 3KHz
 FWP 460VD 60Hz
 VSD-duty: Temp. rise class F

Drive1

Rated power	62 HP
Rated voltage	117 V
Nominal frequency	15,3 Hz
Type of connection	Delta
Rated torque	1092 lb-ft
Speed	300 rpm
Current	296 Amps

Drive2

Rated power	250 HP
Rated voltage	460 V
Nominal frequency	60,4 Hz
Type of connection	Delta
Rated torque	1092 lb-ft
Speed	1200 rpm
Current	317 Amps

Constant torque 300 – 1200rpm

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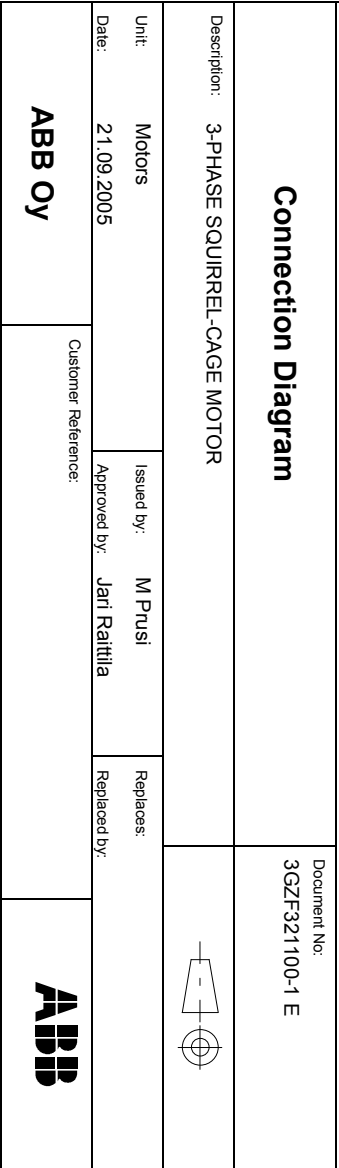
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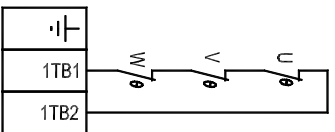
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11TB1...11TB2	BIMETAL DETECTORS, TYPE NCC BIMETALL-THERMOSCHALTER, TYP NCC SONDES BIMETALLIQUES, TYPE NCC
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Motor No
Maschine Nr
Moteur No

ABB Oy, Electrical Machines LV Motors	3GZF321200-35 B
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Accessory Connection Diagram

Document No:
3GZF321200-35 B

Description: **BIMETAL DETECTORS**

Unit: **Electrical Machines, LV Motors**

Issued by: K. Högvist

Replaces:

Date: 16.01.2002

Approved by: M. Prusi

Replaced by:

Customer Reference:

ABB Oy



