



Customer information packet

ECR584006-PPN

M3BN 587MLB 6P B3 400HP

ABB Oy**PERFORMANCE DATA OF MOTOR**

Classifying code or document type

Motors & Generators

Department/Author	Date of Issue	Lang.	Rev. date	Our ref.	Pages
MLA000/TISA	11.10.2018	EN		3GZF021035-1251	
Customer ref.	Saving Ident		Rev./Changed by	TMAA-ASUG9J-TISA36 A	
					1/3

Driven Motor:

Catalog Number	ECR584006-PPN				
Motor type code	M3BN 587 MLB 6G				
Motor product code	3GBN983420-ADGBA01				
Motor type	Squirrel cage Motor				
Mounting designation	IM1001 (B3)				
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	400 HP				
Voltage	460 V				
Frequency	60 Hz				
Speed	1192 r/min				
Current	465 Amps				
Locked rotor Amps	770 %				
Locked rotor torque	240 %				
Breakdown torque	260 %				
No load current	160 Amps				
Rated torque	1763 lb-ft				
Load characteristics	Load %	Current Amps	Efficiency %	Power Factor	
	100	465	95.0	0.84	
	75	365	95.0	0.81	
	50	272	94.4	0.73	

Typical calculated values to NEMA. –
-NEMA Nominal Efficiency 95.0%

Motors & Generators Visiting Address

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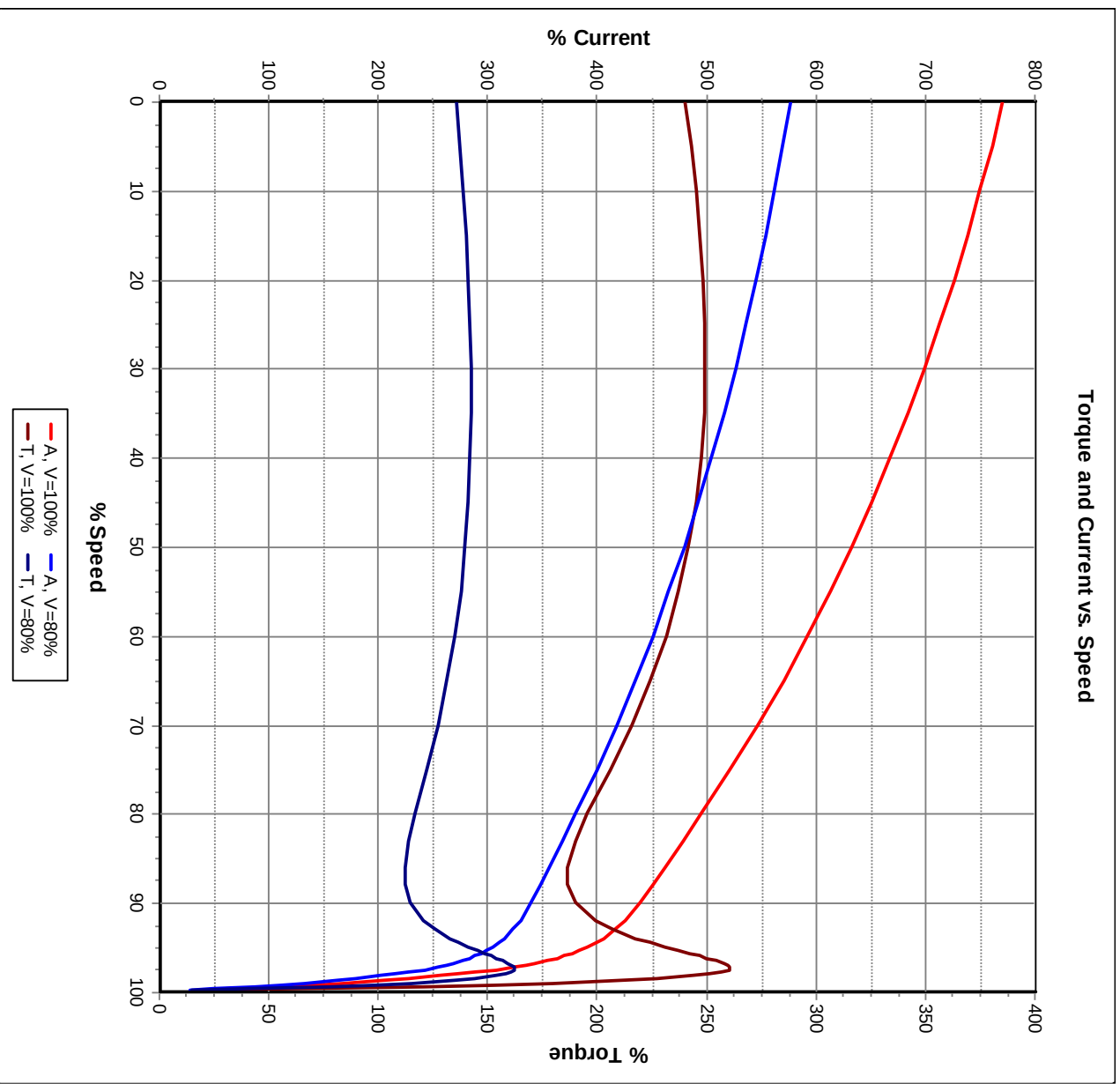
PERFORMANCE DATA OF MOTOR

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MLA000/TISA	11.10.2018	EN		3GZF021035-1251		
Customer ref.	Saving Ident			TMAA-ASUG9J-TISA36	A	2/3

Motor type code: M3BN 587 MLB 6G

Rated output	400 HP	Power Factor	0.84
Voltage	460 V	Rated torque	1763 lb-ft
Frequency	60 Hz	Locked rotor Amps	770 %
Speed	1192 r/min	Locked rotor torque	240 %
Current	465 Amps	Breakdown torque	260 %

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	100 HP
Rated voltage	118 V
Nominal frequency	15,4 Hz
Type of connection	Delta
Rated torque	1760 lb-ft
Speed	300 rpm
Current	471 Amps

Drive2

Rated power	400 HP
Rated voltage	460 V
Nominal frequency	60,5 Hz
Type of connection	Delta
Rated torque	1755 lb-ft
Speed	1200 rpm
Current	516 Amps

Constant torque 300 – 1200rpm

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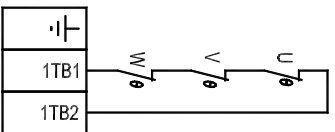


Document No:
3GZF321100-1 E

Replaced by:

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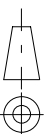
Motor No
Maschine Nr
Moteur No

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:

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14 BN 587 A

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Additional information: