



Customer information packet

ECR583504-PPN

M3BN 587MLA 4P B3 350HP

ABB Oy**Motors & Generators****PERFORMANCE DATA OF MOTOR**

Department/Author	Date of Issue	Lang.	Rev. date	Our ref.	Rev./Changed by	Pages
MLA000/TISA	11.10.2018	EN		3GZF021035-1239		
Customer ref.	Saving Ident			TMAA-ASUG9J-TISA29	A	1/3

Driven Motor:

Catalog Number	ECR583504-PPN				
Motor type code	M3BN 587 MLA 4K				
Motor product code	3GBN982410-ADKBA02				
Motor type	Squirrel cage Motor				
Mounting designation	IM 1001 (B3)				
Protected by enclosure	IP66				
Method of cooling	TEFC				
Insulation	Class F (Shock Resistant)				
Service factor	SF1.15 TEMP RISE CLASS B				
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	350 HP				
Voltage	460 V				
Frequency	60 Hz				
Speed	1792 r/min				
Current	396 Amps				
Locked rotor Amps	780 %				
Locked rotor torque	240 %				
Breakdown torque	300 %				
No load current	131 Amps				
Rated torque	1025 lb-ft				
Load characteristics	Load %	Current Amps	Efficiency %	Power Factor	
	100	396	96,2	0,86	
	75	311	96,4	0,82	
	50	231	96,0	0,74	

Typical calculated values to NEMA. –
-NEMA Nominal Efficiency 96.2%

ABB Oy

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PERFORMANCE DATA OF MOTOR



Classifying code or document type

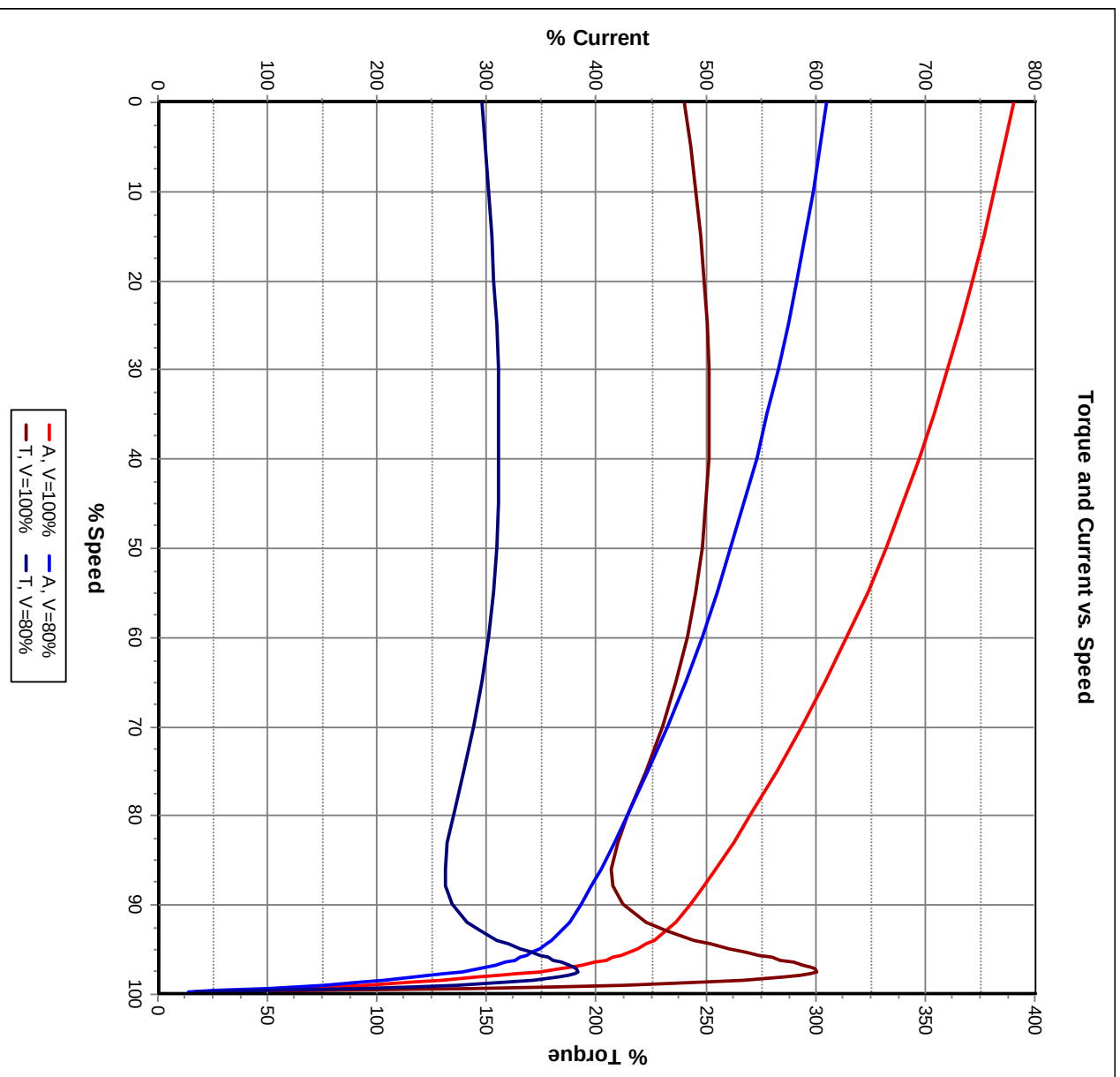
Motors & Generators

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		TMAA-ASUG9J-TISA29	A		2/3

Motor type code: M3BN 587 MLA 4K

Rated output	350 HP	Power Factor	0,86
Voltage	460 V	Rated torque	1025 lb-ft
Frequency	60 Hz	Locked rotor Amps	780 %
Speed	1792 r/min	Locked rotor torque	240 %
Current	396 Amps	Breakdown torque	300 %

Torque and Current vs. Speed



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PWM

Switch, freq. 3KHz

FMP 460VD 60Hz

Drive1

Rated power	87 HP
Rated voltage	117 V
Nominal frequency	15,3 Hz
Type of connection	Delta
Rated torque	1017 lb-ft
Speed	450 rpm
Current	394 Amps

Drive2

Rated power	350 HP
Rated voltage	460 V
Nominal frequency	60,4 Hz
Type of connection	Delta
Rated torque	1020 lb-ft
Speed	1800 rpm
Current	434 Amps

Constant torque 450 – 1800rpm

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Document No:
3GZF321100-1 E

Issued by: M Prusi
Approved by: Jari Raittila

Approved by: **Jari Raittila**

Replaces:
Replaced by:

Replaced by:

Customer Reference:



Accessory Connection Diagram			Document No: 3GZF321200-1 D	
Description: PTC-THERMISTORS				
Unit: Motors	Issued by: K. Höglkvist	Replaces:		
Date: 30.11.2005	Approved by: M. Prusi	Replaced by:		
ABB Oy		Customer Reference:		ABB

Motor No
Maschine Nr
Moteur No

ABB Oy, Motors 3GZF321200-1 D

PTC-THERMISTORS
PTC-TEMPERATURFÜHLER
SONDES THERMIQUE PTC

Note: Measuring voltage } max. 2,5 V/
Achtung: Meßspannung } 1 thermistor
Notez: Tension de meas. }

