



Customer information packet

ECR584506-PPN

M3BN 587MLB 6P 450HP

ABB Oy

PERFORMANCE DATA OF MOTOR



Classifying code or document type		Our ref.		Pages
Department/Author	Date of Issue	Lang.	Rev. date	
MLA000/TISA	11.3.2018	EN	TMAA-ASUG9J-TISA21	
Customer ref.	Saving Ident		Rev./Changed by	
	TMAA-ASUG9J-TISA21		A	1/3

Driven Motor:

Catalog Number	ECR584506-PPN			
Motor type code	M3BN 587 MLB 6G			
Motor product code	3GBN983420-ADGBA02			
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			
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	450 HP			
Voltage	460 V			
Frequency	60 Hz			
Speed	1193 r/min			
Current	530 Amps			
Locked rotor Amps	770 %	Code K		
Locked rotor torque	260 %			
Breakdown torque	280 %			
No load current	200 Amps			
Rated torque	1983 lb-ft			
Load characteristics	Load %	Current Amps	Efficiency %	Power Factor
	100	530	95.0	0.83
	75	421	94.9	0.79
	50	320	94.0	0.70

Typical calculated values to NEMA. -

Motors & Generators Visiting Address
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Motors & Generators

Classifying code or document type

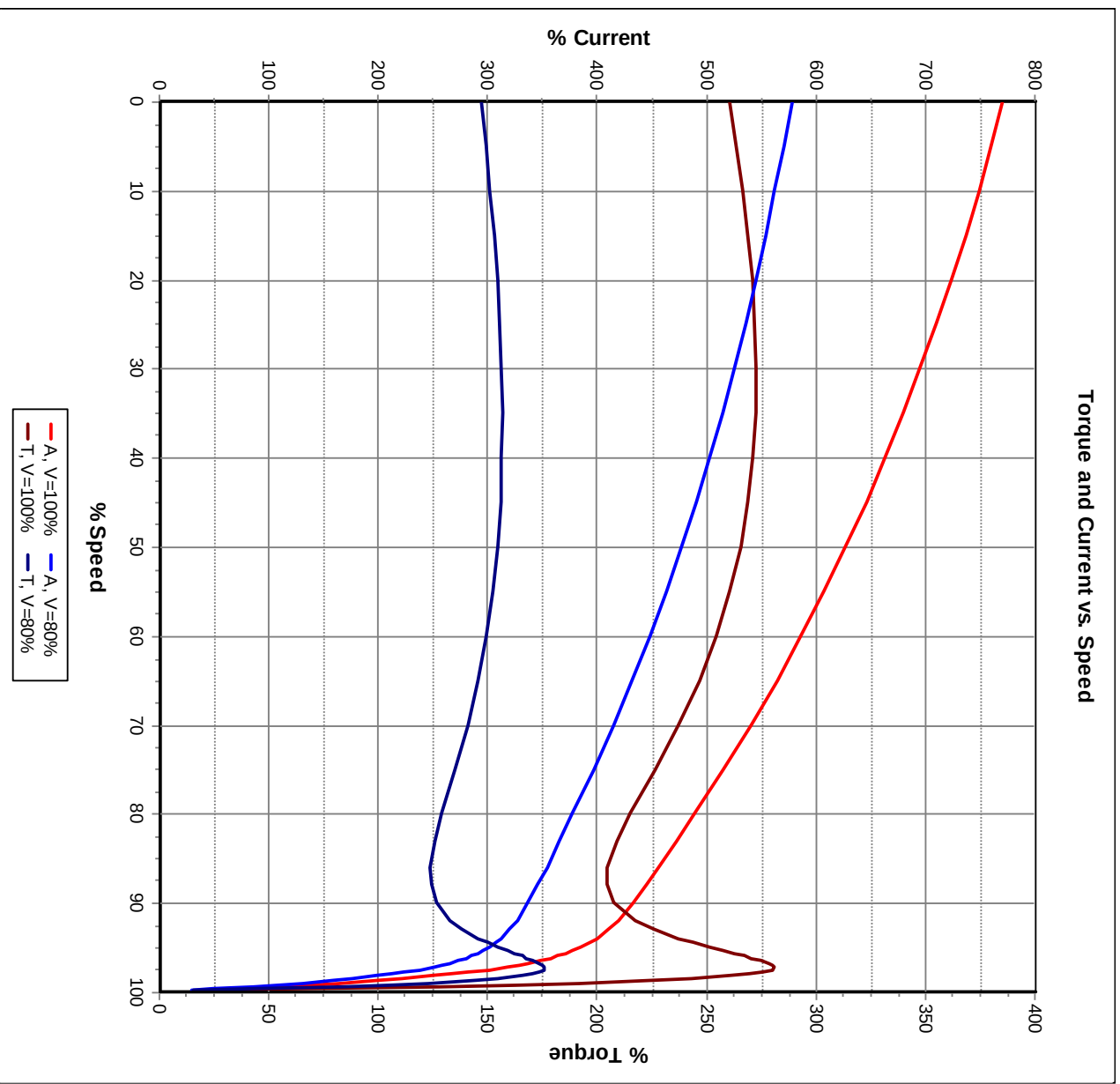
PERFORMANCE DATA OF MOTOR

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MLA000/TISA	11.3.2018	EN		TMAA-ASUG9J-TISA21		
Customer ref.			Saving Ident	TMAA-ASUG9J-TISA21	A	2/3

Motor type code: M3BN 587 MLB 6G

Rated output	450 HP	Power Factor	0.83
Voltage	460 V	Rated torque	1983 lb-ft
Frequency	60 Hz	Locked rotor Amps	770 %
Speed	1193 r/min	Locked rotor torque	260 %
Current	530 Amps	Breakdown torque	280 %

Torque and Current vs. Speed



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MLA000/TISA	11.3.2018	EN		TMAA-ASUG9J-TISA21	A	3/3
Customer ref.				TMAA-ASUG9J-TISA21		

PWM

Switch. freq. 3KHz

FMP 460VD 60Hz

VSD-duty: Temp. rise class F

Drive1

Rated power	112,5 HP
Rated voltage	118 V
Nominal frequency	15,4 Hz
Type of connection	Delta
Rated torque	1971 lb-ft
Speed	300 rpm
Current	533 Amps

Drive2

Rated power	450 HP
Rated voltage	460 V
Nominal frequency	60,5 Hz
Type of connection	Delta
Rated torque	1971 lb-ft
Speed	1200 rpm
Current	585 Amps

Constant torque 300 – 1200rpm

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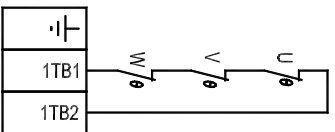
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Document No:
3GZF321100-1 E

Replaces:
Replaced by:

ABD



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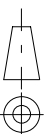
Motor No
Maschine Nr
Moteur No

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. Högkvist**

Replaces:

Date: 16.01.2002

Approved by: M. Prusi

Replaced by:

Customer Reference:

ABB Oy



Motor No Maschine Nr Moteur No ABB Oy, Motors3GZF321200-1 D			
PTC-THERMISTORS PTC-TEMPERATURFÜHLER SONDES THERMIQUE PTC 1TP1 1TP2 W $\frac{1}{R^{\theta}}$ V $\frac{1}{R^{\theta}}$ U $\frac{1}{R^{\theta}}$ Note: Measuring voltage Achtung: Meßspannung Notez: Tension de meas. max. 2,5 V/ 1 thermistor			
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:	
Customer Reference: ABB Oy		ABB	

