



Customer information packet

ECR585006-PPN

M3BN 587MLB 6P 500HP

Department/Author	Date of Issue	Lang.	Rev. date	Our ref.	Rev./Changed by	Pages
MLA000/TISA	11.3.2018	EN		TMAA-ASUG9J-TISA22		
Customer ref.			Saving Ident	TMAA-ASUG9J-TISA22	A	1/3

Driven Motor:

Catalog Number	ECR585006-PPN				
Motor type code	M3BN 587 MLB 6K				
Motor product code	3GBN983420-ADKBA04				
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 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	500 HP				
Voltage	460 V				
Frequency	60 Hz				
Speed	1194 r/min				
Current	603 Amps				
Locked rotor Amps	720 %				
Locked rotor torque	220 %				
Breakdown torque	250 %				
No load current	229 Amps				
Rated torque	2200 lb-ft				
Load characteristics	Load %	Current Amps	Efficiency %	Power Factor	
	100	603	95,8	0,81	
	75	474	96,2	0,77	
	50	359	95,9	0,68	

Typical calculated values to NEMA. –

Motors & Generators Visiting Address
Strömbergin puistitie 5 A
VAASA
FINLAND

ABB Oy
Postal Address
P.O.Box 633
FI-65101 VAASA
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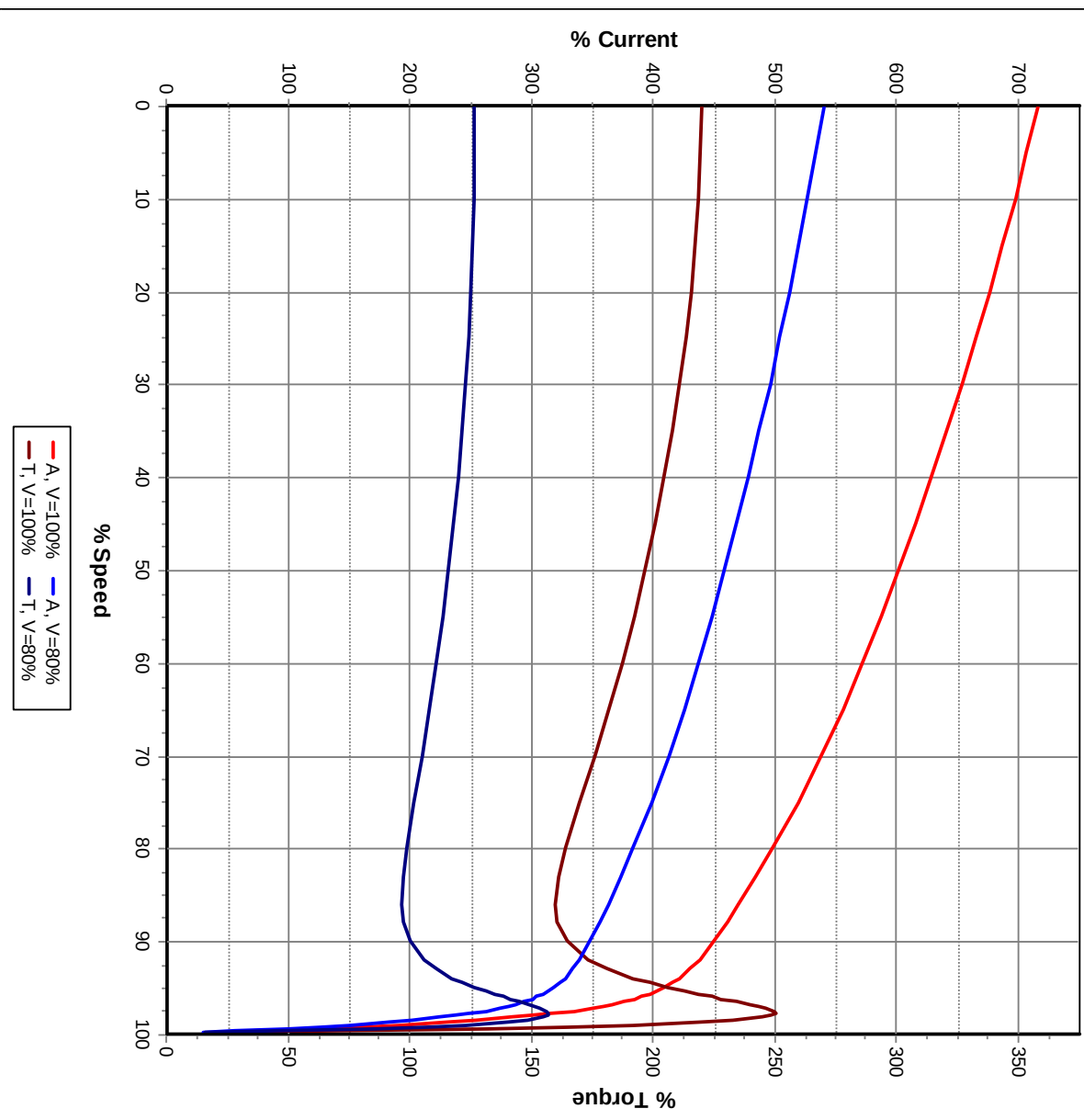
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MLA000/TISA	11.3.2018	EN		TMAA-ASUG9J-TISA22		
Customer ref.			Saving Ident	TMAA-ASUG9J-TISA22	A	2/3

Motor type code: M3BN 587 MLB 6K

Rated output	500 HP	Power Factor	0,81
Voltage	460 V	Rated torque	2200 lb-ft
Frequency	60 Hz	Locked rotor Amps	720 %
Speed	1194 r/min	Locked rotor torque	220 %
Current	603 Amps	Breakdown torque	250 %

Torque and Current vs. Speed



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

Department/Author	Date of Issue	Lang.	Rev. date	Our ref.	Rev./Changed by	Pages
MLA000/TISA	11.3.2018	EN		TMAA-ASUG9J-TISA22	A	3/3
Customer ref.				TMAA-ASUG9J-TISA22		

PWM

Switch. freq. 3KHz

FMP 460VD 60Hz

VSD-duty: Temp. rise class F

Drive1

Rated power	125 HP
Rated voltage	117 V
Nominal frequency	15,3 Hz
Type of connection	Delta
Rated torque	2182 lb-ft
Speed	300 rpm
Current	603 Amps

Drive2

Rated power	500 HP
Rated voltage	460 V
Nominal frequency	60,4 Hz
Type of connection	Delta
Rated torque	2188 lb-ft
Speed	1200 rpm
Current	652 Amps

Constant torque 300 – 1200rpm

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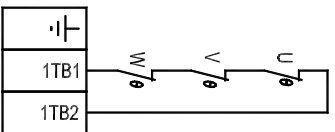


Document No:
3GZF321100-1 E

Replaces:
Replaced by:

Replaced by:

ABD



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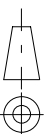
Motor No
Maschine Nr
Moteur No

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.Höglkvist

Replaces:

Date: 16.01.2002

Approved by: M. Prusi

Replaced by:

Customer Reference:

ABB Oy



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