



Customer information packet

ECR584004-PPN

M3BN 587MLA 4P 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.	Rev./Changed by	Pages
MLA000/TISA	11.10.2018	EN		3GZF021035-1233		
Customer ref.	Saving Ident			TMAA-ASUG9J-TISA30	A	1/3

Driven Motor:

Catalog Number	ECR584004-PPN				
Motor type code	M3BN 587 MLA 4K				
Motor product code	3GBN982410-ADKBA03				
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	400 HP				
Voltage	460 V				
Frequency	60 Hz				
Speed	1791 r/min				
Current	452 Amps				
Locked rotor Amps	720 %				
Locked rotor torque	220 %				
Breakdown torque	270 %				
No load current	134 Amps				
Rated torque	1171 lb-ft				
Load characteristics	Load %	Current Amps	Efficiency %	Power Factor	
	100	452	96,2	0,86	
	75	346	96,4	0,84	
	50	253	96,0	0,77	

Typical calculated values to NEMA. –

-NEMA Nominal Efficiency 96.2%

Motors & Generators Visiting Address

Strömbergin puistotie 5 A
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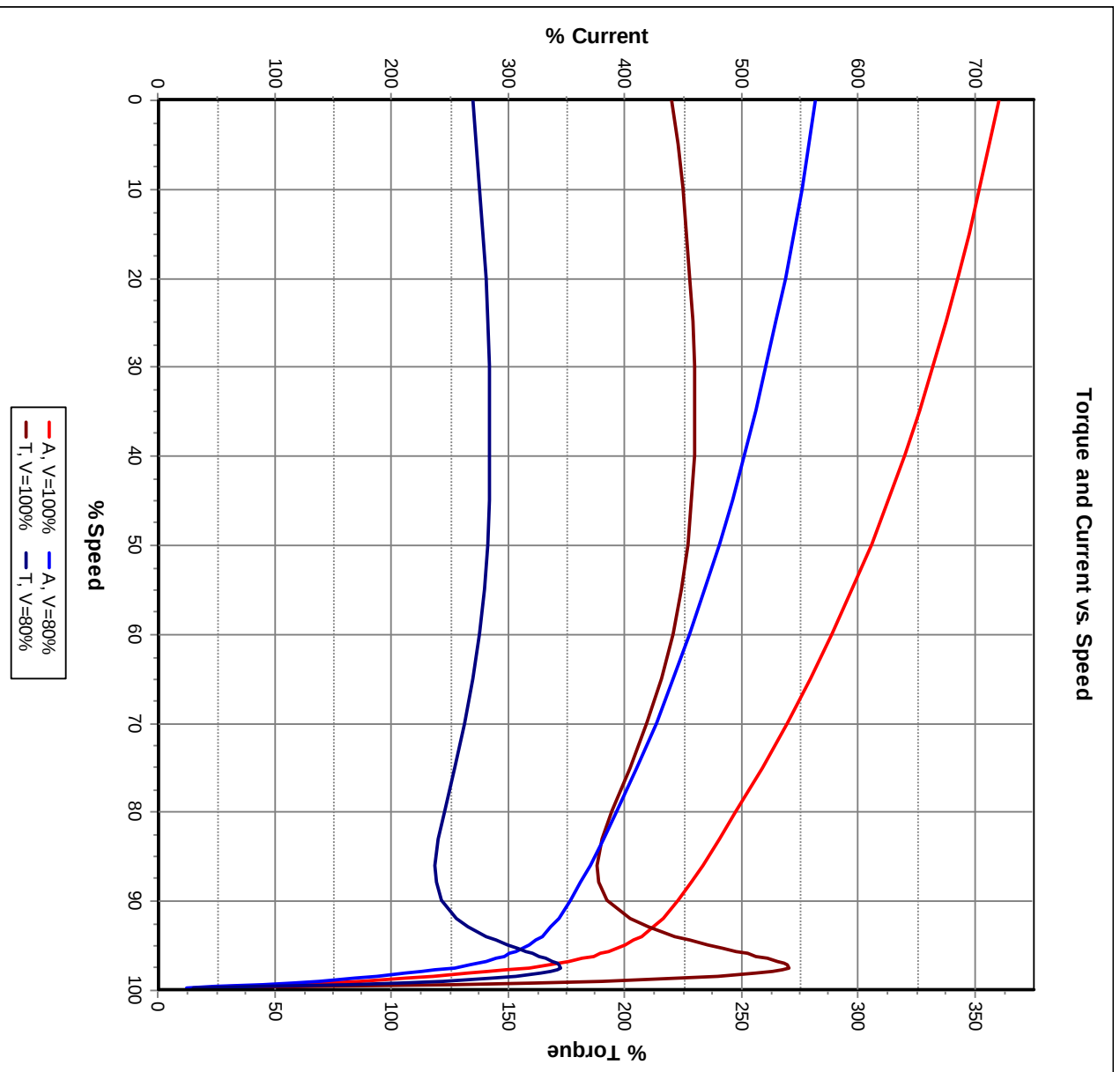
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MLA000/TISA	11.10.2018	EN		3GZF021035-1233	
Customer ref.	Saving Ident			Rev/Changed by	Pages
	TMAA-ASUG9J-TISA30			A	2/3

Motor type code: M3BN 587 MLA 4K

Rated output	400 HP	Power Factor	0,86
Voltage	460 V	Rated torque	1171 lb-ft
Frequency	60 Hz	Locked rotor Amps	720 %
Speed	1791 r/min	Locked rotor torque	220 %
Current	452 Amps	Breakdown torque	270 %

Torque and Current vs. Speed



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PWM

Switch, freq. 3KHz

FMP 460VD 60Hz

Drive1

Rated power	100 HP
Rated voltage	117 V
Nominal frequency	15,3 Hz
Type of connection	Delta
Rated torque	1166 lb-ft
Speed	450 rpm
Current	456 Amps

Drive2

Rated power	400 HP
Rated voltage	460 V
Nominal frequency	60,4 Hz
Type of connection	Delta
Rated torque	1166 lb-ft
Speed	1800 rpm
Current	499 Amps

Constant torque 450 – 1800rpm

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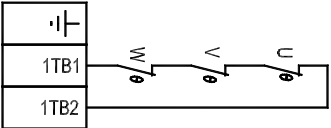
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Motor No Maschine Nr Moteur No ABB Oy, Electrical Machines LV Motors 3GZF321200-35 B			Document No: 3GZF321200-35 B
Accessory Connection Diagram			
Description: BIMETAL DETECTORS			
Unit: Electrical Machines, LV Motors	Issued by: K. Höglkvist	Replaces:	
Date: 16.01.2002	Approved by: M. Prusi	Replaced by:	
ABB Oy		Customer Reference:	



BIMETAL DETECTORS, TYPE NCC
1TB1...1TB2 BIMETALL-THERMOSCHALTER, TYP NCC
SONDES BIMETALLIQUES, TYPE NCC

