



Customer information packet

ECR583004-PPN

M3BN 587MLA 4P B3 300HP

ABB Oy
Motors & Generators

Classifying code or document type

PERFORMANCE DATA OF MOTOR

Department/Author	Date of Issue	Lang.	Rev. date	Our ref.	Pages
MLA000/TISA	11.10.2018	EN		3GZF021035-1234	
Customer ref.	Saving Ident		Rev./Changed by	TMAA-ASUG9J-TISA28 A	
					1/3

Driven Motor:

Catalog Number	ECR583004-PPN				
Motor type code	M3BN 587 MLA 4				
Motor product code	3GBN982410-ADKBA01				
Motor type	Squirrel cage Motor				
Mounting designation	IM 1001				
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	300 HP				
Voltage	460 V				
Frequency	60 Hz				
Speed	1792 r/min				
Current	343 Amps				
Locked rotor Amps	770 %				
Locked rotor torque	250 %				
Breakdown torque	310 %				
No load current	123 Amps				
Rated torque	880 lb-ft				
Load characteristics	Load %	Current Amps	Efficiency %	Power Factor	
	100	343	96,2	0,85	
	75	269	96,4	0,81	
	50	202	95,7	0,72	
NEMA nominal efficiency		96,2 %			

Typical calculated values to NEMA. -

Motors & Generators Visiting Address

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Classifying code or document type

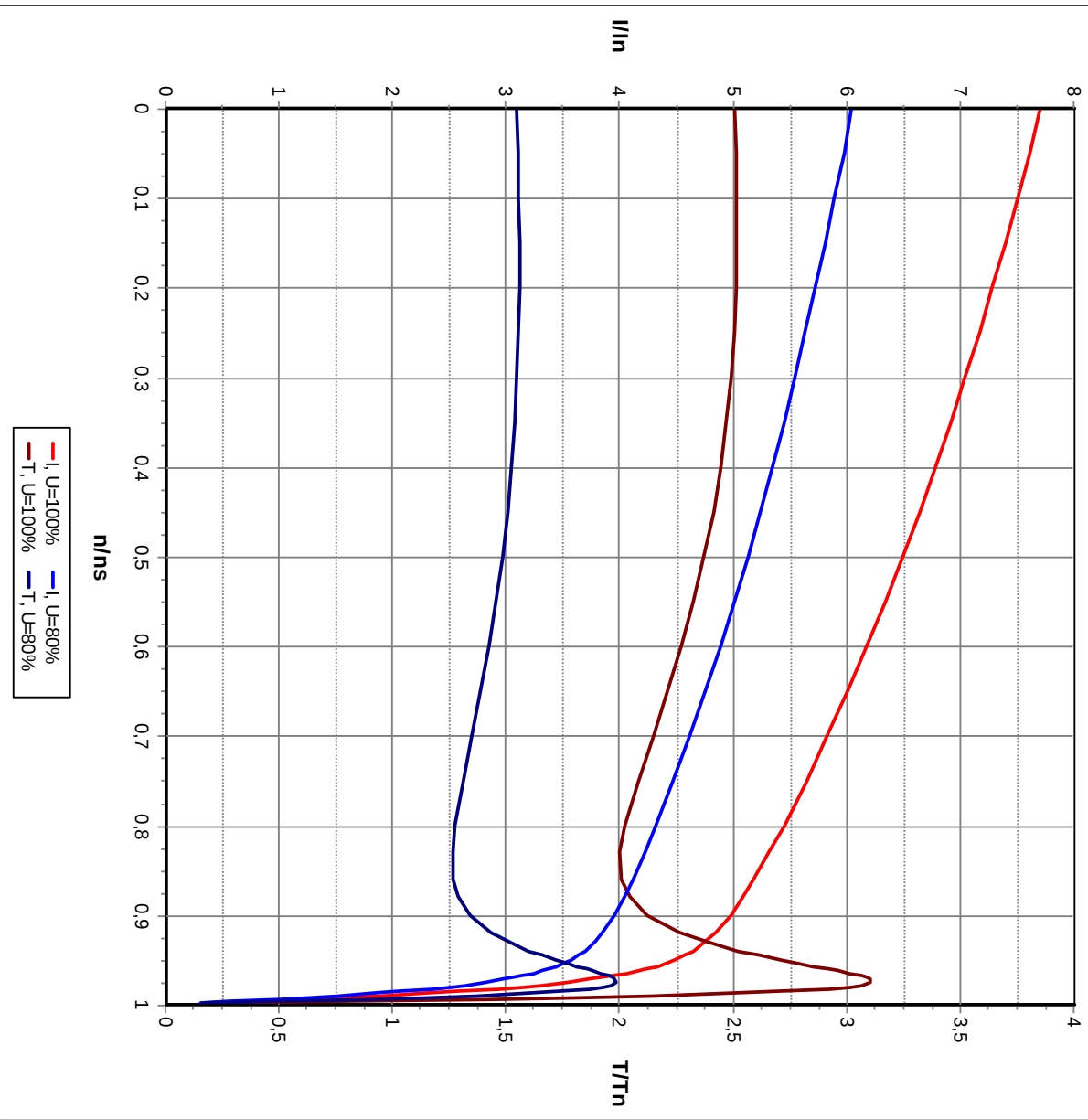
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MLA000/TISA	11.10.2018	En		3GZF021035-1234	
Customer ref.	Saving Ident	Rev./Changed by	Pages		
	TMAA-ASUG9J-TISA28	A	2/3		

Motor type code: M3BN 587 MLA 4

Rated output	300 HP	Power Factor	0,85
Voltage	460 V	Rated torque	880 lb-ft
Frequency	60 Hz	Locked rotor Amps	770 %
Speed	1792 r/min	Locked rotor torque	250 %
Current	343 Amps	Breakdown torque	310 %

Torque and Current as a Function of Speed



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MLA000/TISA	11.10.2018	EN		3GZF021035-1234		
Customer ref.	Saving Ident			TMAA-ASUG9J-TISA28	A	3/3

PWM

Switch, freq. 3KHz
FMP 460VD 60Hz

Drive1

Rated power	75 HP
Rated voltage	117 V
Nominal frequency	15,3 Hz
Type of connection	Delta
Rated torque	876 lb-ft
Speed	450 rpm
Current	345 Amps

Drive2

Rated power	300 HP
Rated voltage	460 V
Nominal frequency	60,4 Hz
Type of connection	Delta
Rated torque	876 lb-ft
Speed	1800 rpm
Current	377 Amps

Constant torque 450 – 1800rpm

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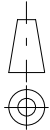
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Document No:
3GZF321100-1 E

Replaces:
Replaced by:

ABD

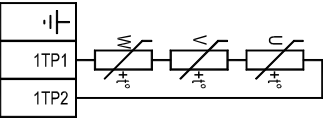
Accessory Connection Diagram			Document No: 3GZF321200-1 D	
Description: PTC-THERMISTORS				
Unit: Motors	Issued by: K. Höglkvist	Replaces:		
Date: 30.11.2005	Approved by: M. Prusi	Replaced by:		
Customer Reference:				
ABB Oy		ABB		

Motor No
Maschine Nr
Moteur No

ABB Oy, Motors

3GZF321200-1 D

PTC-THERMISTORS
PTC-TEMPERATURFÜHLER
SONDES THERMIQUE PTC



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

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