



Customer information packet

ECR582508-PP

M3BN 587MLB 8P B3 250HP

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		TMAA-ASUG9J-TISA23		
Customer ref.	Saving Ident			TMAA-ASUG9J-TISA37	A	1/3

Driven Motor:

Motor type code	M3BN 587 MLB 8G																
Motor product code	3GBN984420-ADG (+209)																
Motor type	Squirrel cage Motor																
Mounting designation	IM 1001																
Protected by enclosure	TEFC																
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	250 HP																
Voltage	460 V																
Frequency	60 Hz																
Speed	894 r/min																
Current	312 Amps																
Locked rotor Amps	780 %																
Locked rotor torque	160 %																
Breakdown torque	280 %																
No load current	138 Amps																
Rated torque	1473 lb-ft																
Load characteristics	<table><tr><th>Load %</th><th>Current Amps</th><th>Efficiency %</th><th>Power Factor</th></tr><tr><td>100</td><td>312</td><td>95.0</td><td>0.79</td></tr><tr><td>75</td><td>249</td><td>95.4</td><td>0.74</td></tr><tr><td>50</td><td>196</td><td>94.8</td><td>0.63</td></tr></table>	Load %	Current Amps	Efficiency %	Power Factor	100	312	95.0	0.79	75	249	95.4	0.74	50	196	94.8	0.63
Load %	Current Amps	Efficiency %	Power Factor														
100	312	95.0	0.79														
75	249	95.4	0.74														
50	196	94.8	0.63														

Typical calculated values to NEMA. –

NEMA Nominal Eff. 95.0%

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Motors & Generators

Classifying code or document type

PERFORMANCE DATA OF MOTOR



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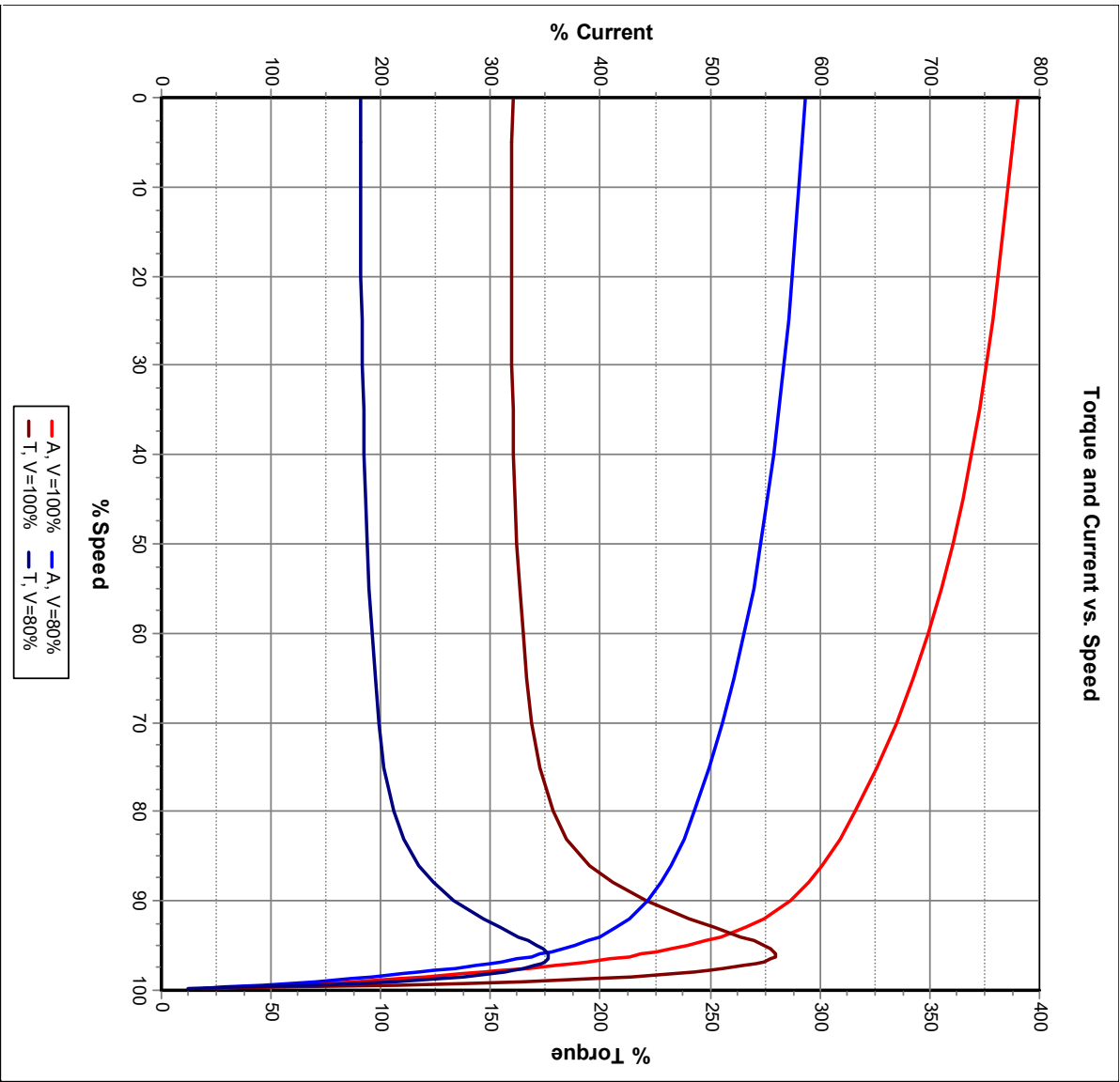
A

Pages

2/3

Motor type code: M3BN 587 MLB 8G

Rated output	251 HP	Power Factor	0,79
Voltage	460 V	Rated torque	1473 lb-ft
Frequency	60 Hz	Locked rotor Amps	780 %
Speed	894 r/min	Locked rotor torque	160 %
Current	312 Amps	Breakdown torque	280 %



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PWM
Switch. freq. 3kHz
FWP 460VD 60Hz
VSD-Duty Temp. rise class F

Drive1	
Rated power Rated voltage Nominal frequency Type of connection Rated torque Speed Current	62.5 HP 118 V 15.4 Hz Delta 1463 lb-ft 225 rpm 310 Amps

Drive2	
Rated power Rated voltage Nominal frequency Type of connection Rated torque Speed Current	250 HP 460 V 60.5 Hz Delta 1463 lb-ft 900 rpm 334 Amps

Constant torque 225 – 900rpm

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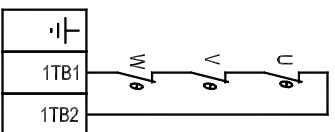
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Document No:
3GZF321100-1 E

Replaces:
Replaced by:

ABD



1TB1...1TB2	BIMETAL DETECTORS, TYPE NCC BIMETALL-THERMOSCHALTER, TYP NCC SONDES BIMETALLIQUES, TYPE NCC
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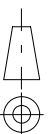
Motor No
Maschine Nr
Moteur No

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



