

BALDOR® • RELIANCE™

Customer information packet

ECR582506-PPN

M3BN 587MLB 6P B3 250HP

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

Department/Author	Date of Issue	Lang.	Rev. date	Our ref.	Pages
M/LA000/TISA	11.10.2018	En		3GZFO21035-1240	1/3
Customer ref.			Saving Ident	Rev./Changed by	
			TMAA-ASUG9J-TISA33	A	

Driven Motor:

Catalog Number	ECR582506-PPN			
Motor type code	M3BN 587 MLB 6K			
Motor product code	3GBN983420-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 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	1195 r/min			
Current	295 Amps			
Locked rotor Amps	690 %	Code H		
Locked rotor torque	200 %			
Breakdown torque	250 %			
No load current	104 Amps			
Rated torque	1102 lb-ft			
Load characteristics				
	Load %	Current Amps	Efficiency %	Power Factor
	100	295	95,8	0,83
	75	229	96,1	0,80
	50	171	95,5	0,72

Typical calculated values to NEMA. –
 -Nema Nominal Eff. 95.8%

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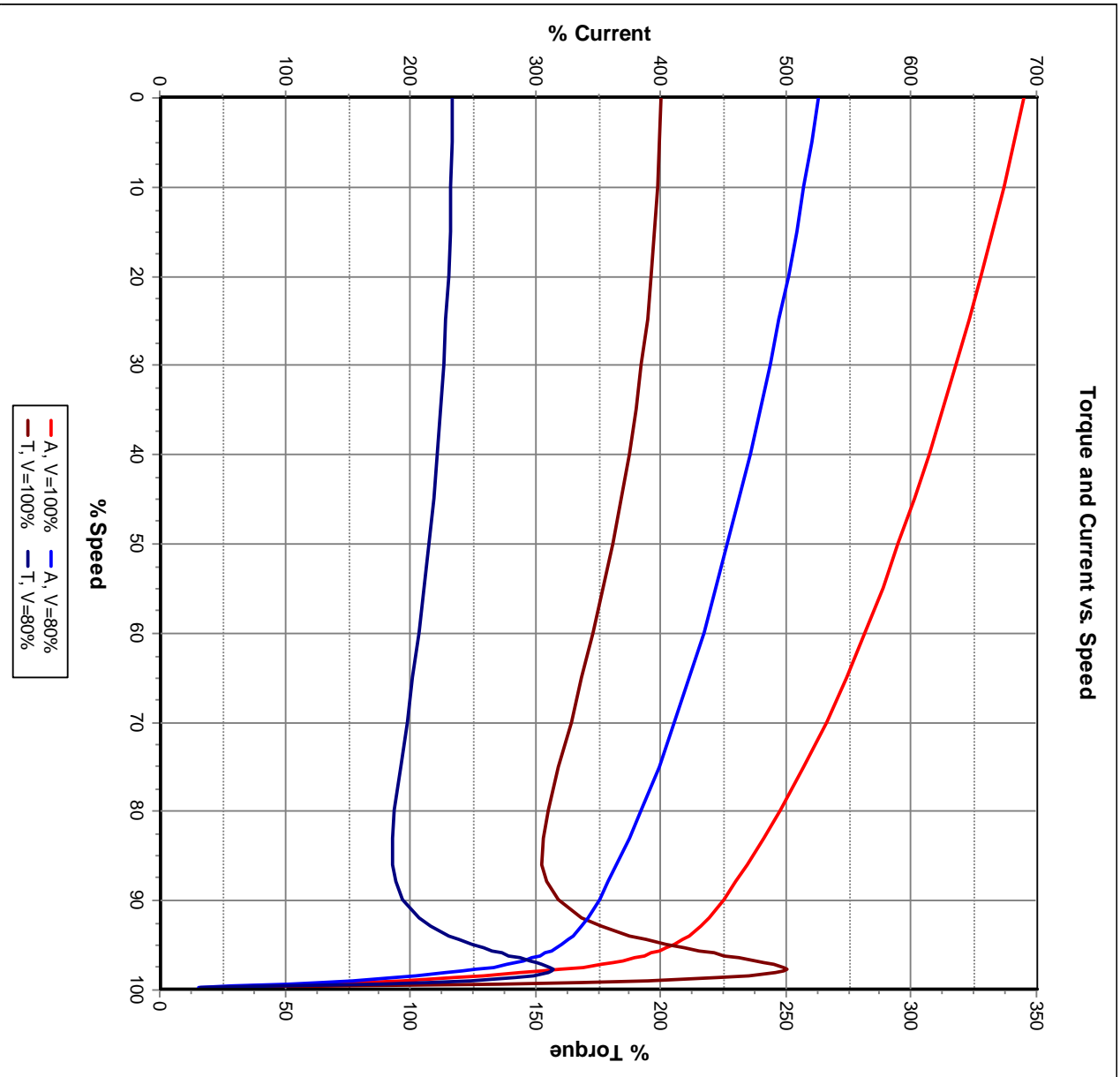
PERFORMANCE DATA OF MOTOR



ABB Oy Motors & Generators		Date of Issue		Lang.	Rev. date	Our ref.	Pages	
Department/Author MLA000/TISA		11.10.2018		En		3GZF021035-1240	2/3	
Customer ref.		Saving Ident		Rev./Changed by		TMAA-ASUG9J-TISA33 A		

Motor type code: M3BN 587 MLB 6K

Rated output	251 HP	Power Factor	0,83
Voltage	460 V	Rated torque	1 102 lb-ft
Frequency	60 Hz	Locked rotor Amps	690 %
Speed	1 195 r/min	Locked rotor torque	200 %
Current	295 Amps	Breakdown torque	250 %




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Department/Author	MLA000/TISA	Date of Issue	11.10.2018	Lang.	En	Rev. date	
Customer ref.				Saving Ident	TMAA-ASUG9J-TISA33	Our ref.	3GZF021035-1240
				Rev./Changed by	A	Pages	3/3

PWM
 Switch . freq. 3KHz
 FWP 460V/D 60Hz
 VSD-duty: Temp. rise class F

Drive1	
Rated power	62 HP
Rated voltage	117 V
Nominal frequency	15,3 Hz
Type of connection	Delta
Rated torque	1092 lb-ft
Speed	300 rpm
Current	296 Amps

Drive2	
Rated power	250 HP
Rated voltage	460 V
Nominal frequency	60,4 Hz
Type of connection	Delta
Rated torque	1092 lb-ft
Speed	1200 rpm
Current	317 Amps

Constant torque 300 – 1200rpm

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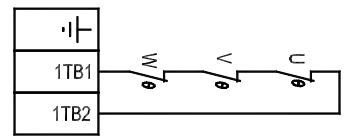
<h2 style="margin: 0;">Connection Diagram</h2>		Document No: 3GZF321100-1 E
Description: 3-PHASE SQUIRREL-CAGE MOTOR		
Unit: Motors Date: 21.09.2005	Issued by: M Prusi Approved by: Jari Raitila	Replaces:
Customer Reference: ABB Oy		

<p style="text-align: center;">Diagram of connection Anschluss-Schema Schema de branchement</p>	<p style="text-align: center;">Connection of terminals Anschluss des Motors Branchement des bornes</p> <p style="text-align: center;">Y-connection Y-Schaltung Connection étoile</p>	<p style="text-align: center;">D-connection D-Schaltung Connection triangle</p>				
<p style="text-align: center;">Direction of rotation with phase sequence shown in picture Drehrichtung nach Schaltbild Direction de rotation avec branchement ci-dessus</p>	<p style="text-align: center;">Direction of rotation with reversed phase sequence Drehrichtung umgekehrter Phasenfolge Direction de rotation avec séquence de phase renversé</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;"> Motor No Maschine Nr No du moteur </td> <td style="width: 50%; text-align: center;"> ABB Oy, Motors </td> </tr> <tr> <td colspan="2" style="text-align: center;"> 3GZF321100-1 E </td> </tr> </table>	Motor No Maschine Nr No du moteur	ABB Oy, Motors	3GZF321100-1 E	
Motor No Maschine Nr No du moteur	ABB Oy, Motors					
3GZF321100-1 E						

<h2 style="margin: 0;">Accessory Connection Diagram</h2>				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:		
ABB Oy		Customer Reference:		

<p style="margin: 0;"> Motor No Maschine Nr Moteur No ABB Oy, Electrical Machines LV Motors </p>	<p style="margin: 0;"> 3GZF321200-35 B </p>
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BIMETAL DETECTORS, TYPE NCC
1TB1...1TB2 BIMETALL-THERMOSCHALTER, TYP NCC
SONDES BIMETALLIQUES, TYPE NCC



<h2 style="margin: 0;">Accessory Connection Diagram</h2>		Document No: 3GZF321200-1 D
Description: PTC-THERMISTORS		
Unit: Motors Date: 30.11.2005	Issued by: K. Höglkvist Approved by: M. Prusi	Replaces: Replaced by:
ABB Oy	Customer Reference:	

Motor No Maschine Nr Moteur No	ABB Oy, Motors
3GZF321200-1 D	PTC-THERMISTORS PTC-TEMPERATURFÜHLER SONDES THERMIQUE PTC

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

<p>Dimension Print</p>		<p>Motor Type: M3BN 587ML_4.. B3, B6, B7, B8, V5, V6</p>	<p>Document No: 3GZF500098-174 A 14 BN 587 A</p>
<p>Description: SQUIRREL CAGE MOTOR, CABLE ENTRY LHS, SPECIAL SHAFT, SLOTTED FEET HOLES. DIMENSIONS IN INCHES, MOTOR SIZES 586/587.</p>			
<p>Unit: ABB Oy, Motors and Generators</p>	<p>Issued by: N.Palokangas</p>	<p>Replaces: Replaced by:</p>	
<p>Date: 21.11.2019</p>	<p>Approved by: S. Tikkanen</p>	<p>Customer Reference:</p>	
<p>ABB Oy</p>		<p>ABB</p>	

Additional Information:

