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# Customer information packet

## ECR582506-PPN

M3BN 587MLB 6P B3 250HP

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

Department/Author MLA000/TISA	Date of Issue 11.10.2018	Lang. En	Rev. date	Our ref. 3GZFO21035-1240
Customer ref.		Saving Ident TMAA-ASUG9J-TISA33	Rev./Changed by A	Pages 1/3

## Driven Motor:

Catalog Number Motor type code Motor product code Motor type Mounting designation Protected by enclosure Method of cooling Insulation Service factor Standards International efficiency classification (IEC 60034-30) Ambient temperature, max. Altitude, max.	<b>ECR582506-PPN</b> M3BN 587 MLB 6K 3GBN983420-ADKBA01 Squirrel cage Motor IM 1001 IP66 TEFC Class F (Shock Resistant) SF1.15 TEMP RISE CLASS F NEMA IE3 40 °C 3280 ft.a.s.l.																
Duty type Temp. rise Connection of stator winding Rated output Voltage Frequency Speed Current	Continuous Class B Delta 250 HP 460 V 60 Hz 1195 r/min 295 Amps																
Locked rotor Amps Locked rotor torque Breakdown torque No load current Rated torque	690 % 200 % 250 % 104 Amps 1102 lb-ft Code H																
Load characteristics	<table border="1"> <thead> <tr> <th>Load %</th> <th>Current Amps</th> <th>Efficiency %</th> <th>Power Factor</th> </tr> </thead> <tbody> <tr> <td>100</td> <td>295</td> <td>95,8</td> <td>0,83</td> </tr> <tr> <td>75</td> <td>229</td> <td>96,1</td> <td>0,80</td> </tr> <tr> <td>50</td> <td>171</td> <td>95,5</td> <td>0,72</td> </tr> </tbody> </table>	Load %	Current Amps	Efficiency %	Power Factor	100	295	95,8	0,83	75	229	96,1	0,80	50	171	95,5	0,72
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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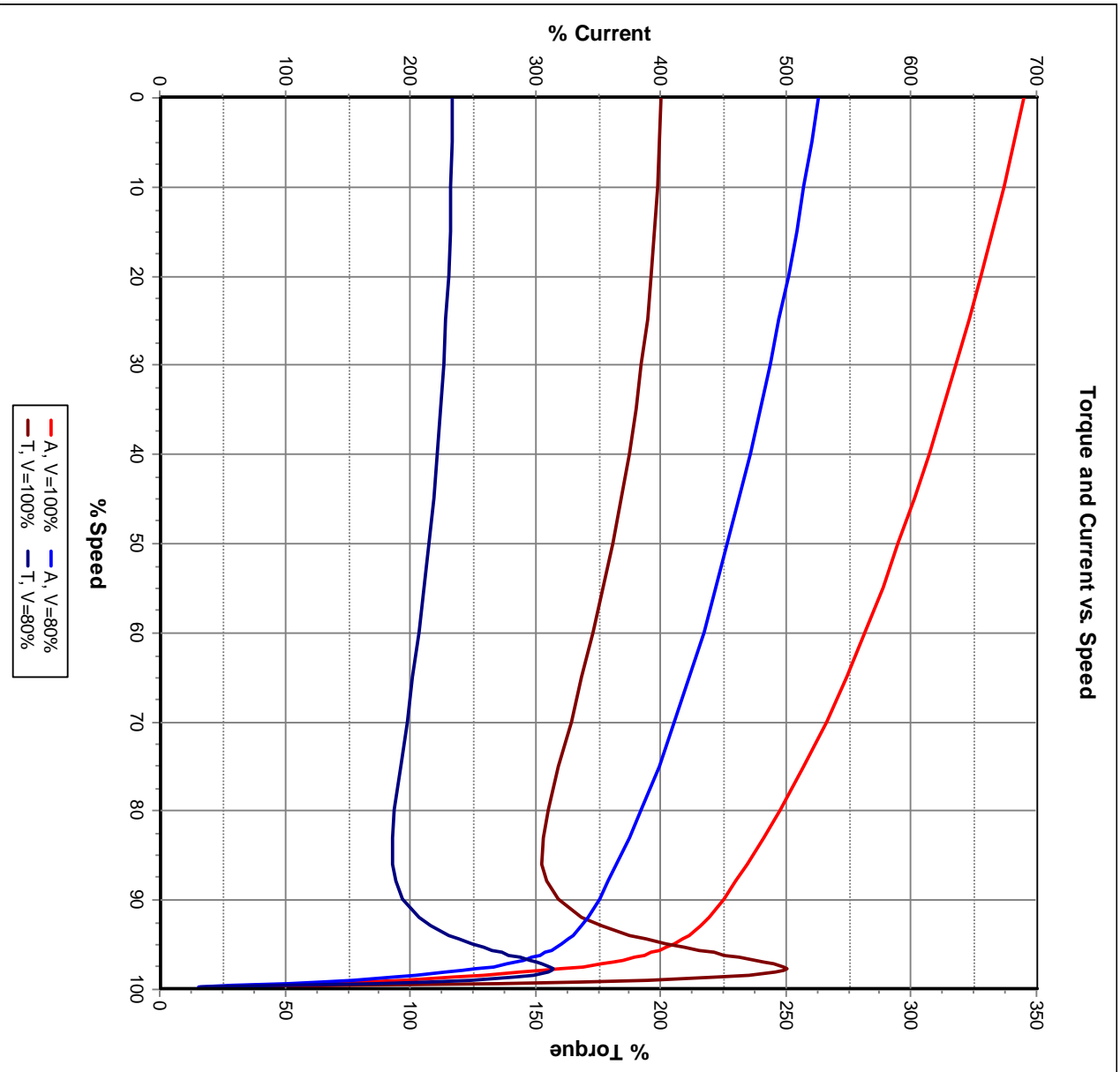
**PERFORMANCE DATA OF MOTOR**



<b>ABB Oy</b> <b>Motors &amp; Generators</b>		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	1102 lb-ft
Frequency	60 Hz	Locked rotor Amps	690 %
Speed	1195 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	
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PWM  
 Switch . freq. 3KHz  
 FWP 460V/D 60Hz  
 VSD-duty: Temp. rise class F

<b>Drive1</b>	
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

<b>Drive2</b>	
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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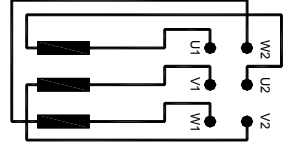
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<h2 style="margin: 0;">Connection Diagram</h2>		Document No: <b>3GZF321100-1 E</b>
Description: <b>3-PHASE SQUIRREL-CAGE MOTOR</b>		
Unit: <b>Motors</b> Date: <b>21.09.2005</b>	Issued by: <b>M Prusi</b> Approved by: <b>Jari Raitila</b>	Replaces: Replaced by:
Customer Reference: <b>ABB Oy</b>		

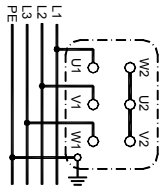
  

**Diagram of connection**  
 Anschluss-Schema  
 Schema de branchement

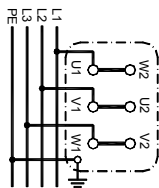


**Connection of terminals**  
 Anschluss des Motors  
 Branchement des bornes


**Y-connection**  
 Y-Schaltung  
 Connection étoile




**D-connection**  
 D-Schaltung  
 Connection triangle




**Direction of rotation with phase sequence shown in picture**  
 Drehrichtung nach Schaltbild  
 Direction de rotation avec branchement ci-dessus



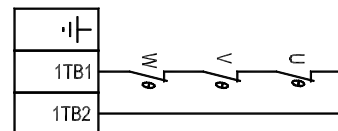
**Direction of rotation with reversed phase sequence**  
 Drehrichtung mit umgekehrter Phasenfolge  
 Direction de rotation avec séquence de phase renversée




Motor No Maschine Nr No du moteur	<b>ABB Oy, Motors</b>
Motor No Maschine Nr No du moteur	<b>3GZF321100-1 E</b>

<h2 style="margin: 0;">Accessory Connection Diagram</h2>				Document No: <b>3GZF321200-35 B</b>
Description: <b>BIMETAL DETECTORS</b>				
Unit:	Electrical Machines, LV Motors	Issued by:	K. Höglkvist	Replaces:
Date:	16.01.2002	Approved by:	M. Prusi	Replaced by:
<b>ABB Oy</b>		Customer Reference:		

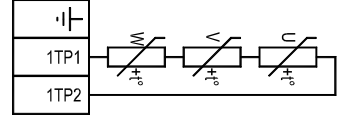
<p style="margin: 0;">                     BIMETAL DETECTORS, TYPE NCC                      1TB1...1TB2 BIMETALL-THERMOSCHALTER, TYP NCC                      SONDES BIMETALLIQUES, TYPE NCC                 </p>	
Motor No Maschine Nr Moteur No	<b>ABB Oy, Electrical Machines</b> <b>LV Motors</b>
<b>3GZF321200-35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

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

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



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

<p>Additional Information:</p>			
<p><b>Dimension Print</b></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:</p>	
<p>Date: 21.11.2019</p>	<p>Approved by: S.Tikkanen</p>	<p>Replaced by:</p>	
<p>Customer Reference:</p>		<p>ABB Oy</p>	

