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# Customer information packet

## ECR583506-PPN

M3BN 587MLB 6P B4 350HP

**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		3GZFE021035-1235	1/3
Customer ref.			Saving Ident	Rev./Changed by	
			TMAA-ASUG9J-TISA35	A	

**Driven Motor:**

Catalog Number	<b>ECR583506-PPN</b>			
Motor type code	M3BN 587 MLB 6K			
Motor product code	3GBN983420-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 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	350 HP			
Voltage	460 V			
Frequency	60 Hz			
Speed	1194 r/min			
Current	407 Amps			
Locked rotor Amps	700 %	Code H		
Locked rotor torque	210 %			
Breakdown torque	250 %			
No load current	144 Amps			
Rated torque	1539 lb-ft			
Load characteristics				
	Load %	Current Amps	Efficiency %	Power Factor
	100	407	95,8	0,84
	75	320	96,1	0,80
	50	237	95,8	0,72

Typical calculated values to NEMA. –  
 -NEMA Nominal Efficiency 95.8%

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**PERFORMANCE DATA OF MOTOR**

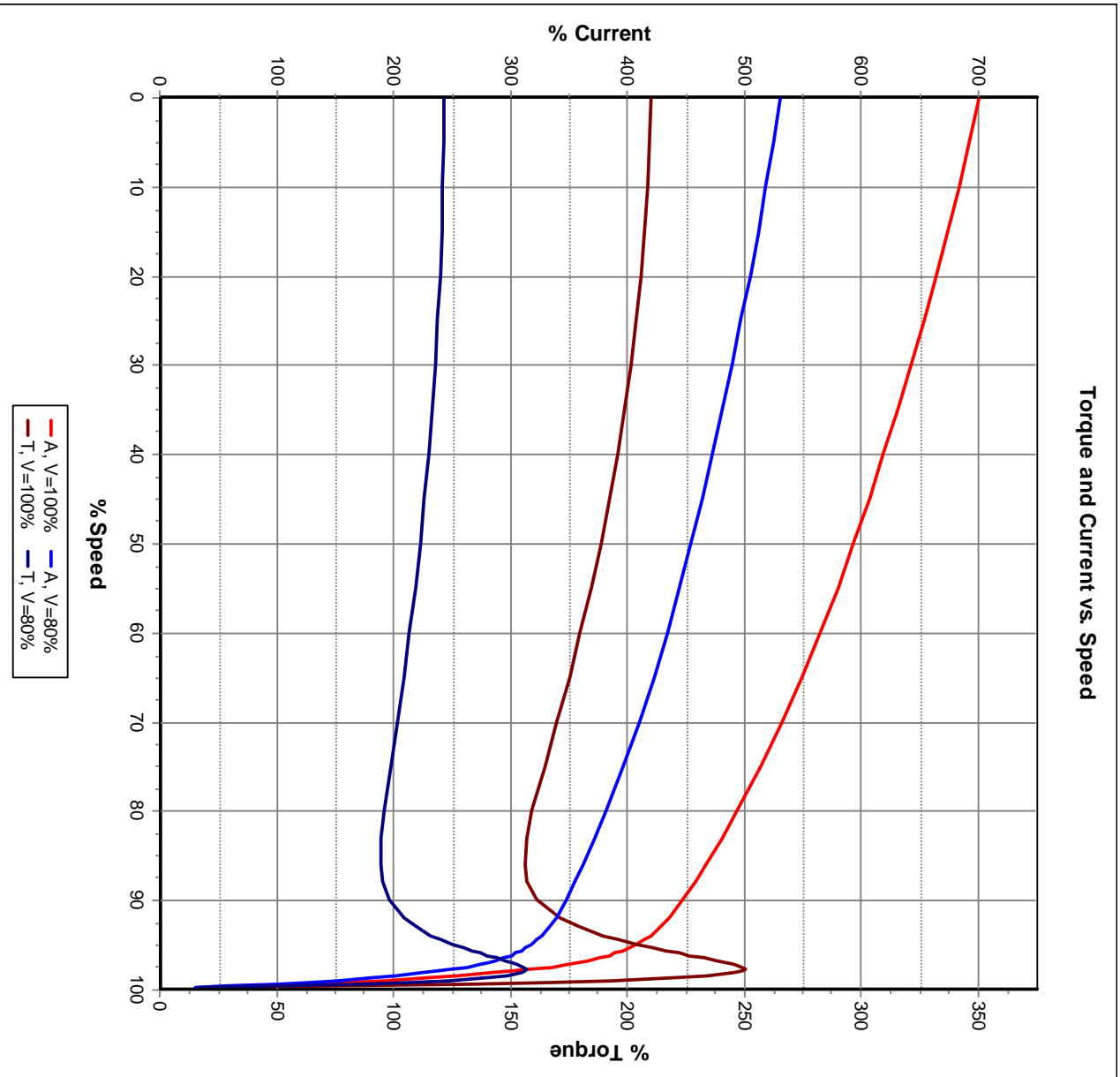


<b>ABB Oy</b> <b>Motors &amp; Generators</b>		Date of Issue		Lang.	Rev. date	Our ref.	Rev./Changed by	Pages
Department/Author MLA000/TISA		11.10.2018		En		3GZF021035-1235		2/3
Customer ref.		Saving Ident		TMAA-ASUG9J-TISA35		A		

Motor type code: M3BN 587 MLB 6K

Rated output	350 HP	Power Factor	0,84
Voltage	460 V	Rated torque	1539 lb-ft
Frequency	60 Hz	Locked rotor Amps	700 %
Speed	1194 r/min	Locked rotor torque	210 %
Current	407 Amps	Breakdown torque	250 %

**Torque and Current vs. Speed**




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						Rev./Changed by	TMAA-ASUG9J-TISA35 A
						Pages	3/3

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

<b>Drive1</b>	
Rated power	87,5 HP
Rated voltage	117 V
Nominal frequency	15,3 Hz
Type of connection	Delta
Rated torque	1532 lb-ft
Speed	300 rpm
Current	415 Amps

<b>Drive2</b>	
Rated power	350 HP
Rated voltage	460 V
Nominal frequency	60,4 Hz
Type of connection	Delta
Rated torque	1531 lb-ft
Speed	1200 rpm
Current	442 Amps

Constant torque 300 – 1200rpm


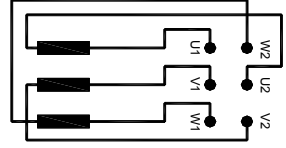
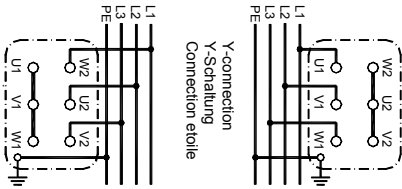
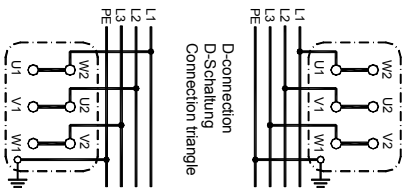


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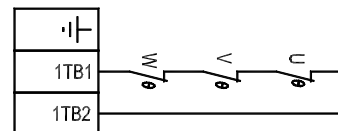
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<h2>Connection Diagram</h2>		Document No: <b>3GZF321100-1 E</b>
Description: <b>3-PHASE SQUIRREL-CAGE MOTOR</b>		
Unit: <b>Motors</b> Date: <b>21.09.2005</b>	Issued by: <b>M Prusi</b> Approved by: <b>Jari Raitila</b>	Replaces: Replaced by:
Customer Reference: <b>ABB Oy</b>		
<div style="border: 1px solid black; padding: 10px;"> <div style="display: flex; justify-content: space-between;"> <div style="width: 30%;"> <p>Diagram of connection Anschluss-Schema Schema de branchement</p>  </div> <div style="width: 35%; border-top: 1px dashed black; border-bottom: 1px dashed black;"> <p>Connection of terminals Anschluss des Motors Branchement des bornes</p> <div style="display: flex; justify-content: space-around;"> <div style="width: 45%;"> <p>Y-connection Y-Schaltung Connection etoile</p>  </div> <div style="width: 45%;"> <p>D-connection D-Schaltung Connection triangle</p>  </div> </div> </div> </div> <div style="width: 30%;"> <p>Direction of rotation with phase sequence shown in picture Drehrichtung nach Schaltbild Direction de rotation avec branchement ci-dessus</p>  </div> <div style="width: 30%;"> <p>Direction of rotation with reversed phase sequence Drehrichtung umgekehrter Phasenfolge Direction de rotation avec sequence de phase renversee</p>  </div> </div>		
Motor No Maschine Nr No du moteur <b>ABB Oy, Motors</b>		<b>3GZF321100-1 E</b>

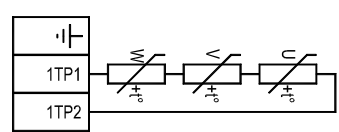
<h2 style="margin: 0;">Accessory Connection Diagram</h2>				Document No: <b>3GZF321200-35 B</b>
Description: <b>BIMETAL DETECTORS</b>				
Unit:	Electrical Machines, LV Motors	Issued by:	K. Höglkvist	Replaces:
Date:	16.01.2002	Approved by:	M. Prusi	Replaced by:
<b>ABB Oy</b>		Customer Reference:		

<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>

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

<p>Motor No Maschine Nr Moteur No</p> <p><b>ABB Oy, Motors</b></p>	<p style="text-align: center;"><b>PTC-THERMISTORS</b> <b>PTC-TEMPERATURFÜHLER</b> <b>SONDES THERMIQUE PTC</b></p> <div style="text-align: center;">  </div> <p>Note: Measuring voltage } max. 2,5 V/          Achtung: Meßspannung } 1 thermistor          Notez: Tension de meas. }</p>
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<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><b>ABB Oy</b></p>		

Additional Information:

