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# Customer information packet

## ECR583006-PPN

M3BN 587MLB 6P B3 300HP

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

Department/Author MLA000/TISA	Date of Issue 11.10.2018	Lang. En	Rev. date	Our ref. 3GZFE021035-1237
Customer ref.		Saving Ident TMAA-ASUG9J-TISA34	Rev./Changed by A	Pages 1/3

Driven Motor:

Catalog Number	<b>ECR583006-PPN</b>		
Motor type code	M3BN 587 MLB 6K		
Motor product code	3GBN983420-ADKBA02		
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	1195 r/min		
Current	352 Amps		
Locked rotor Amps	750 %	Code J	
Locked rotor torque	230 %		
Breakdown torque	280 %		
No load current	134 Amps		
Rated torque	1320 lb-ft		
Load characteristics	Load %	Current Amps	Efficiency %
	100	352	95.8
	75	279	95.9
	50	212	95.4
			Power Factor
			0.83
			0.79
			0.70

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

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**PERFORMANCE DATA OF MOTOR**

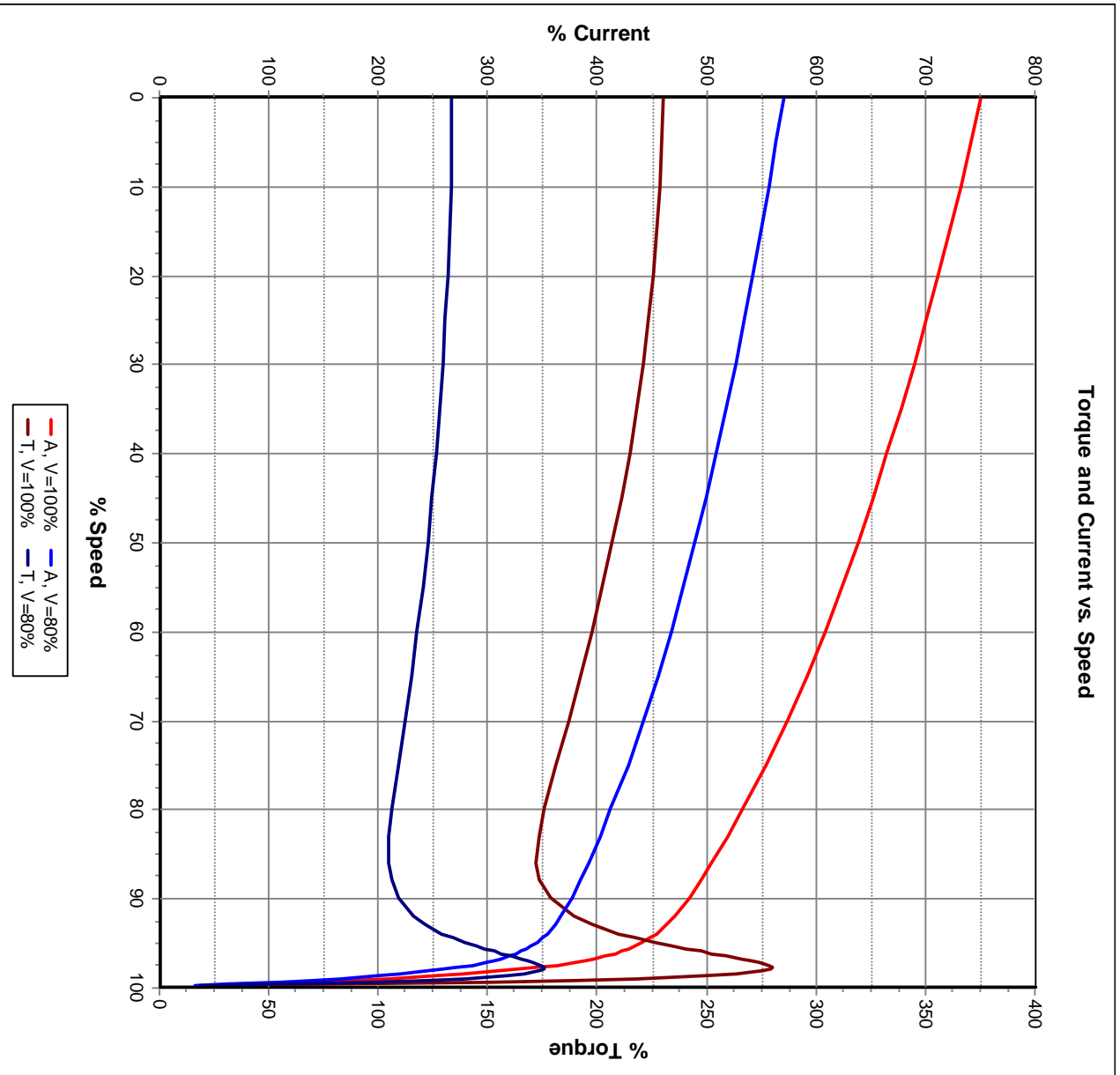


<b>ABB Oy</b> <b>Motors &amp; Generators</b>		Date of Issue		Lang.	Rev. date	Our ref.	Pages
Department/Author MLA000/TISA		11.10.2018		En		3GZF021035-1237	2/3
Customer ref.		Saving Ident		Rev./Changed by			
		TMAA-ASUG9J-TISA34		A			

Motor type code: M3BN 587 MLB 6K

Rated output	300 HP	Power Factor	0.83
Voltage	460 V	Rated torque	1320 lb-ft
Frequency	60 Hz	Locked rotor Amps	750 %
Speed	1195 r/min	Locked rotor torque	230 %
Current	352 Amps	Breakdown torque	280 %

**Torque and Current vs. Speed**




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PWM  
Switch . freq. 3KHz  
FWP 460VD 60Hz

<b>Drive1</b>	
Rated power	75 HP
Rated voltage	117 V
Nominal frequency	15,3 Hz
Type of connection	Delta
Rated torque	1313 lb-ft
Speed	300 rpm
Current	356 Amps

<b>Drive2</b>	
Rated power	300 HP
Rated voltage	460 V
Nominal frequency	60,3 Hz
Type of connection	Delta
Rated torque	1314 lb-ft
Speed	1200 rpm
Current	387 Amps

Constant torque 300 – 1200rpm


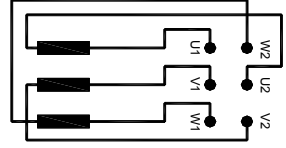
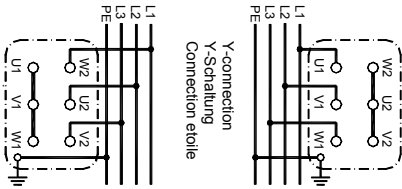
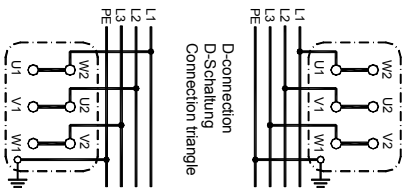


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<h2>Connection Diagram</h2>		Document No: <b>3GZF321100-1 E</b>
Description: <b>3-PHASE SQUIRREL-CAGE MOTOR</b>		
Unit: <b>Motors</b> Date: <b>21.09.2005</b>	Issued by: <b>M Prusi</b> Approved by: <b>Jari Raitila</b>	Replaces: Replaced by:
Customer Reference: <b>ABB Oy</b>		
<div style="display: flex; justify-content: space-around;"> <div style="width: 30%;"> <p>Diagram of connection Anschluss-Schema Schema de branchement</p>  </div> <div style="width: 30%;"> <p>Connection of terminals Anschluss des Motors Branchement des bornes</p> <div style="display: flex; justify-content: space-between;"> <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="display: flex; justify-content: space-around; margin-top: 10px;"> <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>

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

Motor No Maschine Nr Moteur No	<b>ABB Oy, Motors</b>
Motor No Maschine Nr Moteur No	<b>3GZF321200-1 D</b>

PTC-THERMISTORS  
 PTC-TEMPERATURFÜHLER  
 SONDES THERMIQUE PTC

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

<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:

