

**BALDOR® • RELIANCE™**

---

**Customer information packet**  
**ECR584006-PPN**

M3BN 587MLB 6P B3 400HP

**ABB Oy****PERFORMANCE DATA OF MOTOR**

Department/Author MLA000/TISA	Date of Issue 11.10.2018	Lang. En	Rev. date	Our ref. 3GZFE021035-1251
Customer ref.		Saving Ident TMAA-ASUG9J-TISA36	Rev./Changed by A	Pages 1/3

**Driven Motor:**

Catalog Number	<b>ECR584006-PPN</b>		
Motor type code	M3BN 587 MLB 6G		
Motor product code	3GBN983420-ADGBA01		
Motor type	Squirrel cage Motor		
Mounting designation	IM1001 (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	400 HP		
Voltage	460 V		
Frequency	60 Hz		
Speed	1192 r/min		
Current	465 Amps		
Locked rotor Amps	770 %	Code J	
Locked rotor torque	240 %		
Breakdown torque	260 %		
No load current	160 Amps		
Rated torque	1763 lb-ft		
Load characteristics	Load %	Current Amps	Efficiency %
	100	465	95.0
	75	365	95.0
	50	272	94.4
			Power Factor
			0.84
			0.81
			0.73

Typical calculated values to NEMA. –  
-NEMA Nominal Efficiency 95.0%

Motors & Generators Visiting Address  
Stroinbergin puistotie 5 A  
VAASA  
FINLAND

Postal Address  
P.O.Box 633  
FI-65101 VAASA  
FINLAND

**ABB Oy**

Telephone  
+358 10 222 000

Telefax  
+358 10 224 7372

**PERFORMANCE DATA OF MOTOR**

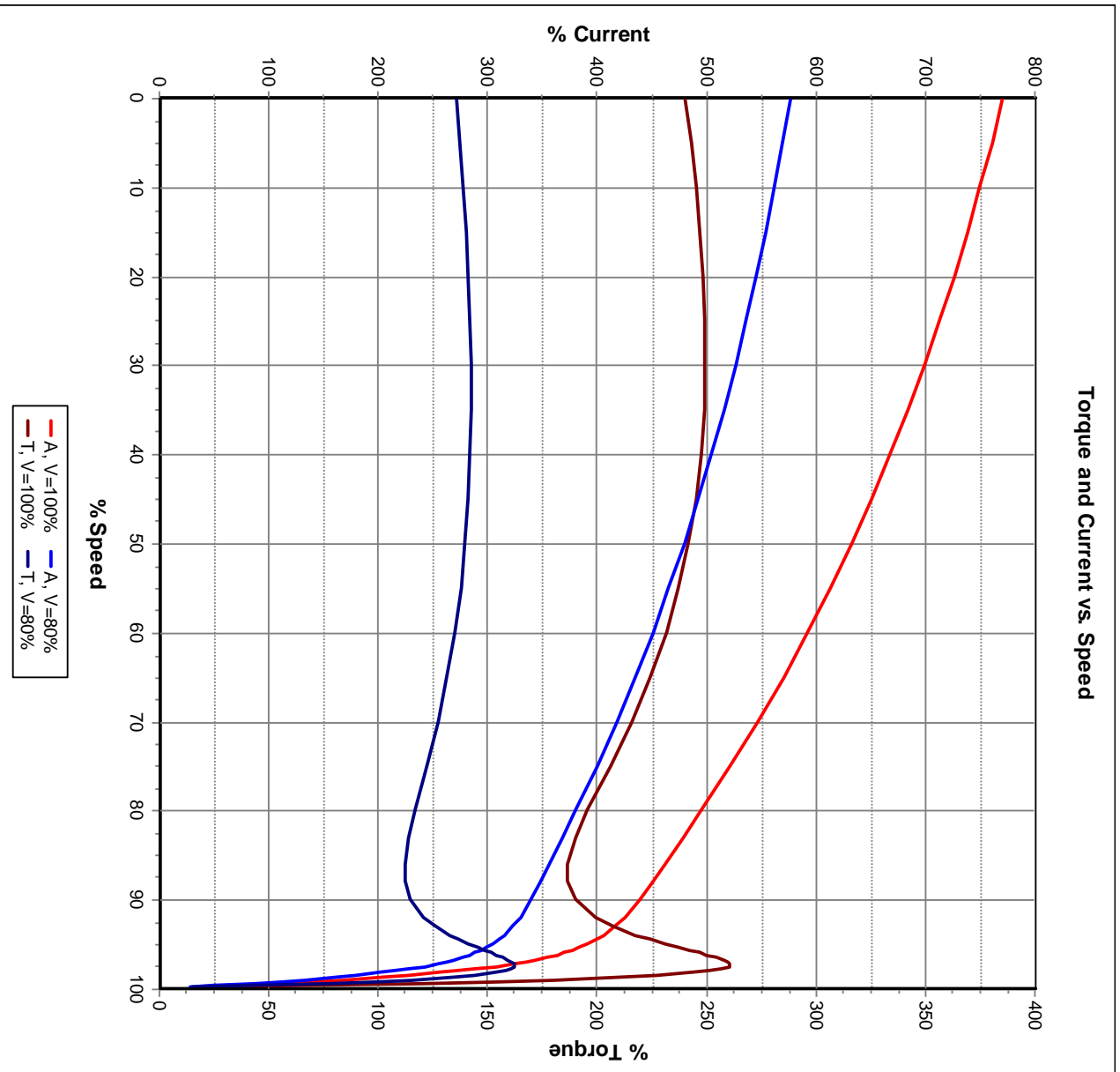


<b>ABB Oy</b> <b>Motors &amp; Generators</b>		Date of Issue		Lang.	Rev. date	Our ref.	Pages	
Department/Author MLA000/TISA		11.10.2018		EN		3GZF021035-1251	2/3	
Customer ref.		Saving Ident		Rev./Changed by		TMAA-ASUG9J-TISA36 A		

Motor type code: M3BN 587 MLB 6G

Rated output	400 HP	Power Factor	0.84
Voltage	460 V	Rated torque	1763 lb-ft
Frequency	60 Hz	Locked rotor Amps	770 %
Speed	1192 r/min	Locked rotor torque	240 %
Current	465 Amps	Breakdown torque	260 %

**Torque and Current vs. Speed**




Motors & Generators Visiting Address  
Stroinbergin puistitie 5 A  
VAASA  
FINLAND

**ABB Oy**  
Postal Address  
P.O.Box 633  
FI-65101 VAASA  
FINLAND

Telephone  
+358 10 222 000

Telefax  
+358 10 224 7372

<b>ABB Oy</b> <b>Motors &amp; Generators</b>		Classifying code or document type		
<b>PERFORMANCE DATA OF MOTOR</b>				
Department/Author	Date of Issue	Lang.	Rev. date	Our ref.
MLA000/TISA	11.10.2018	EN		3GZF021035-1251
Customer ref.			Saving Ident	Rev./Changed by
			TMAA-ASUG9J-TISA36	A
				Pages
				3/3

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

<b>Drive1</b>	
Rated power	100 HP
Rated voltage	118 V
Nominal frequency	15,4 Hz
Type of connection	Delta
Rated torque	1760 lb-ft
Speed	300 rpm
Current	471 Amps

<b>Drive2</b>	
Rated power	400 HP
Rated voltage	460 V
Nominal frequency	60,5 Hz
Type of connection	Delta
Rated torque	1755 lb-ft
Speed	1200 rpm
Current	516 Amps

Constant torque 300 – 1200rpm


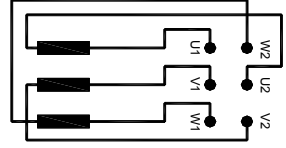
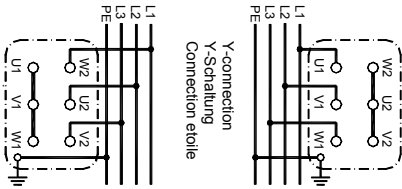
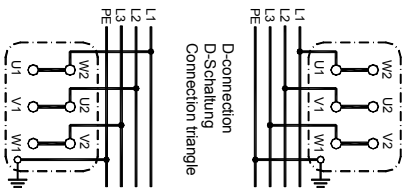


Motors & Generators Visiting Address  
 Stroinbergin puistitie 5 A  
 VAASA  
 FINLAND


Postal Address  
 P.O.Box 633  
 FI-65101 VAASA  
 FINLAND

**ABB Oy**

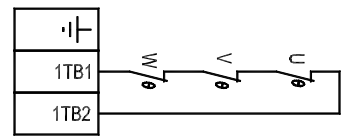
Telephone  
 +358 10 222 000

Teletax  
 +358 10 224 7372

<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; padding: 5px 0;"> <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 étoile</p>  </div> <div style="width: 45%;"> <p>D-connection D-Schaltung Connection triangle</p>  </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 im umgekehrten Phasenfolge Direction de rotation avec séquence de phase renversé</p>  </div> </div> </div>		
Motor No Maschine Nr No du moteur <b>ABB Oy, Motors</b>		<b>3GZF321100-1 E</b>

<h2>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:		

Motor No Maschine Nr Moteur No <b>ABB Oy, Electrical Machines                  LV Motors</b>	 <p>                     BIMETAL DETECTORS, TYPE NCC                      1TB1...1TB2 BIMETALL-THERMOSCHALTER, TYP NCC                      SONDES BIMETALLIQUES, TYPE NCC                 </p>
<b>3GZF321200-35 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>	<div style="text-align: center;"> </div> <p style="text-align: center; margin-top: 10px;">                     PTC-THERMISTORS                      PTC-TEMPERATURFÜHLER                      SONDES THERMIQUE PTC                 </p> <p style="text-align: right; margin-top: 10px;">                     Note: Measuring voltage } max. 2,5 V/                      Achtung: Meßspannung } 1 thermistor                      Notez: Tension de meas. }                 </p>
---	---

<p>Additional Information:</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>Dimension Print</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>		

