

**BALDOR® • RELIANCE™**

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# Customer information packet

## ECR583506-PPN

M3BN 587MLB 6P B4 350HP

**ABB Oy****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 %			
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%

Motors & Generators Visiting Address  
 Stroinbergin puistotie 5 A  
 VAASA  
 FINLAND

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 P.O.Box 633  
 FI-65101 VAASA  
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**PERFORMANCE DATA OF MOTOR**

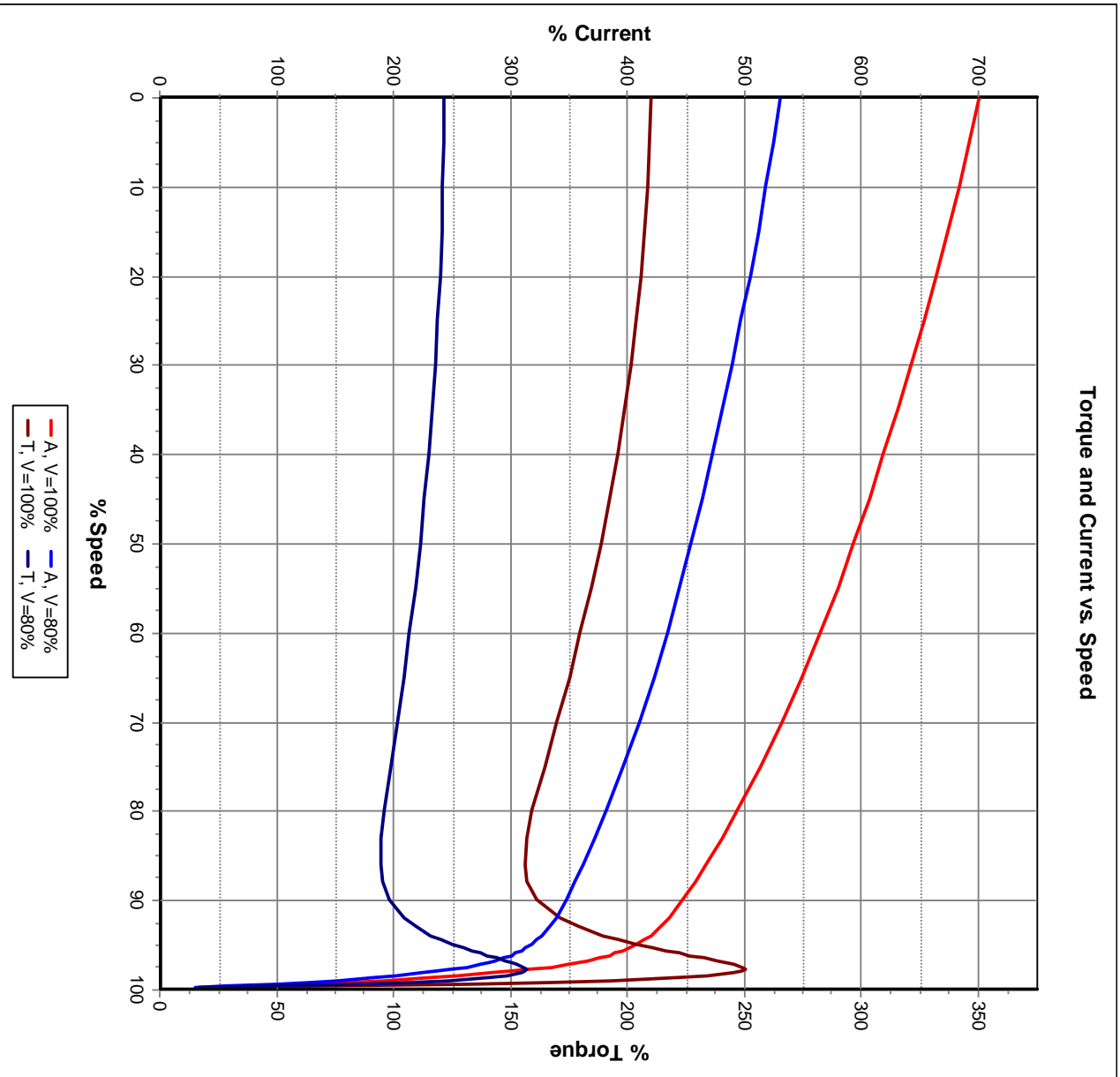


<b>ABB Oy</b> <b>Motors &amp; Generators</b>		Date of Issue		Lang.	Rev. date	Our ref.	Rev./Changed by	Pages
Department/Author MLA000/TISA		11.10.2018		En		3GZF021035-1235		2/3
Customer ref.		Saving Ident		TMAA-ASUG9J-TISA35		A		

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	A	Pages	3/3

PWM  
 Switch . freq. 3KHz  
 FWP 460VD 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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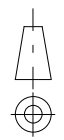
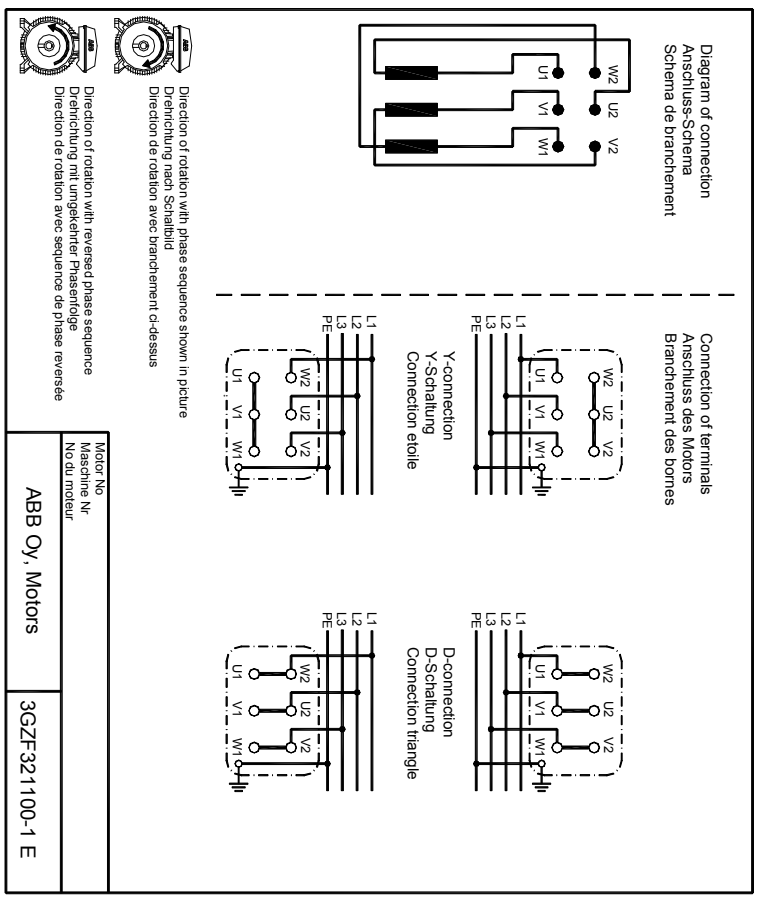
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<p><b>Connection Diagram</b></p>		<p>Document No: 3GZF321100-1 E</p>	
		<p>Description: 3-PHASE SQUIRREL-CAGE MOTOR</p>	
<p>Unit: Motors</p>	<p>Issued by: M Prusi</p>	<p>Replaces:</p>	
<p>Date: 21.09.2005</p>	<p>Approved by: Jari Raitila</p>	<p>Replaced by:</p>	
<p>ABB Oy</p>		<p>Customer Reference:</p>	
		<p>ABB</p>	



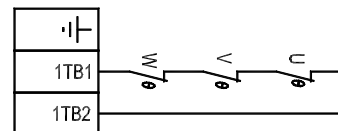
<h2 style="margin: 0;">Accessory Connection Diagram</h2>				Document No: <b>3GZF321200-35 B</b>
Description: <b>BIMETAL DETECTORS</b>				
Unit:	Electrical Machines, LV Motors	Issued by:	K. Höglkvist	Replaces:
Date:	16.01.2002	Approved by:	M. Prusi	Replaced by:
<b>ABB Oy</b>		Customer Reference:		

Motor No Maschine Nr Moteur No <b>ABB Oy, Electrical Machines                  LV Motors</b>	Document No: <b>3GZF321200-35 B</b>
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**BIMETAL DETECTORS, TYPE NCC**  
**1TB1...1TB2 BIMETALL-THERMOSCHALTER, TYP NCC**  
**SONDES BIMETALLIQUES, TYPE NCC**



<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>ABB Oy, Motors</p>	<p>3GZF321200-1 D</p>
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PTC-THERMISTORS  
 PTC-TEMPERATURFÜHLER  
 SONDES THERMIQUE PTC

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>Description: SQUIRREL CAGE MOTOR, CABLE ENTRY LHS, SPECIAL SHAFT, SLOTTED FEET HOLES. DIMENSIONS IN INCHES, MOTOR SIZES 586/587.</p>		<p>Document No: 3GZF500098-174 A 14 BN 587 A</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>

