

**BALDOR® • RELIANCE™**

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# Customer information packet

## ECR583006-PPN

M3BN 587MLB 6P B3 300HP

**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		3GZFE021035-1237	1/3
Customer ref.			Saving Ident	Rev./Changed by	
			TMAA-ASUG9J-TISA34	A	

**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 %	Power Factor
	100	352	95.8	0.83
	75	279	95.9	0.79
	50	212	95.4	0.70

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

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**PERFORMANCE DATA OF MOTOR**

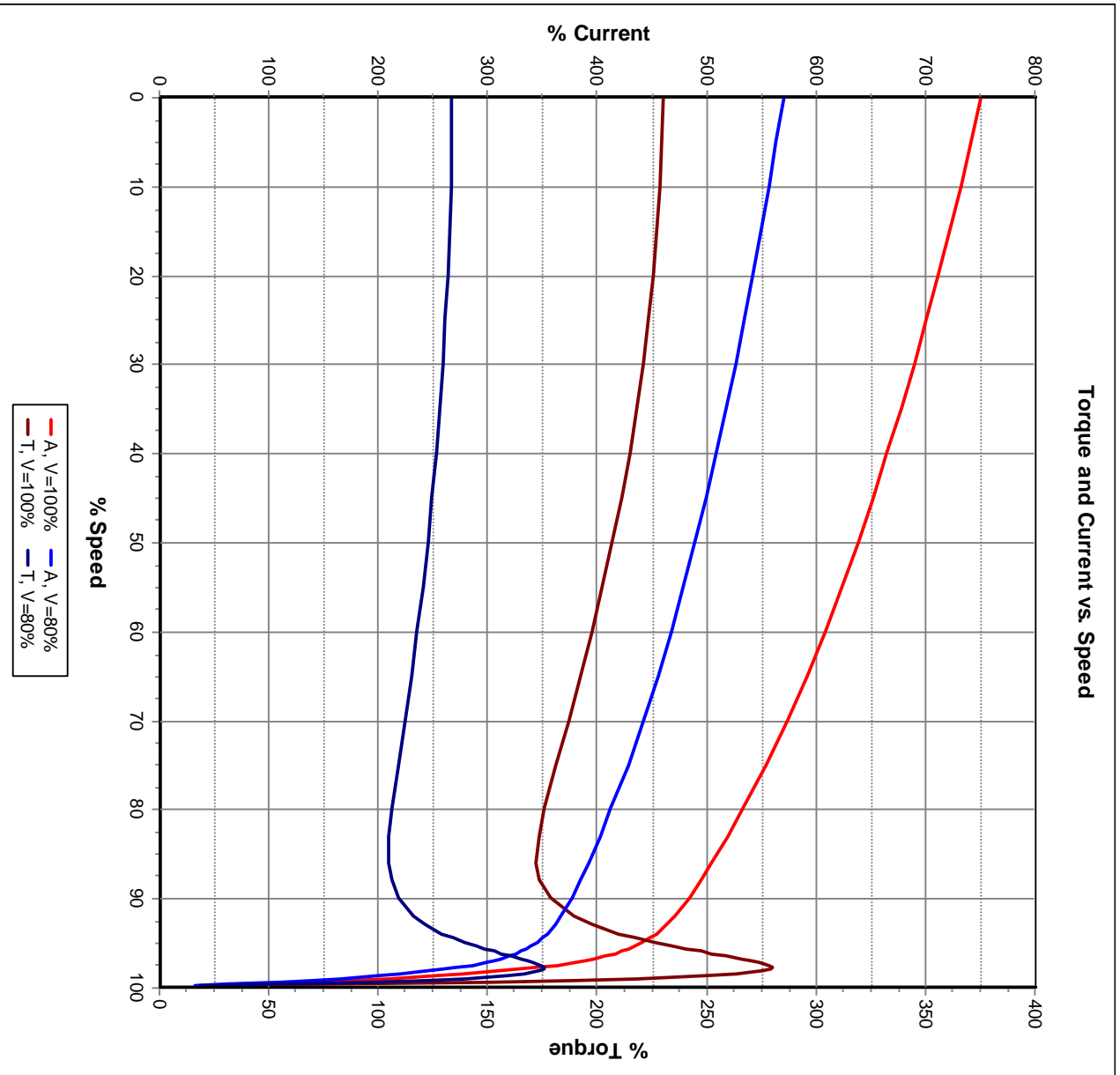


<b>ABB Oy</b> <b>Motors &amp; Generators</b>		Date of Issue		Lang.	Rev. date	Our ref.	Pages
Department/Author MLA000/TISA		11.10.2018		En		3GZF021035-1237	2/3
Customer ref.		Saving Ident		Rev./Changed by			
		TMAA-ASUG9J-TISA34		A			

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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			TMAA-ASUG9J-TISA34	A	3/3	

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


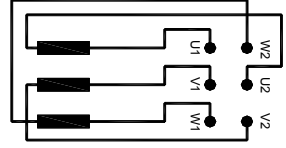
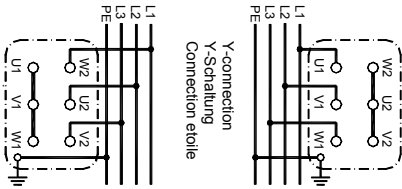
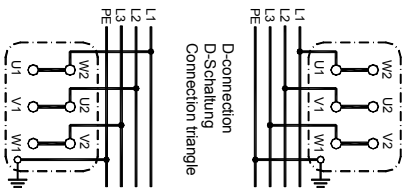


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<p>Diagram of connection Anschluss-Schema Schema de branchement</p> 		<p>Diagram of terminals Anschluss des Motors Branchement des bornes</p> 	
<p>Direction of rotation with phase sequence shown in picture Drehrichtung nach Schaltbild Direction de rotation avec branchement ci-dessus</p> 		<p>Direction of rotation with reversed phase sequence Drehrichtung mit umgekehrter Phasenfolge Direction de rotation avec sequence de phase renversee</p> 	
<p>Motor No Machine Nr No du moteur</p> <p><b>ABB Oy, Motors</b></p>		<p>Document No: <b>3GZF321100-1 E</b></p>	
<p><b>Connection Diagram</b></p>			
<p>Description: <b>3-PHASE SQUIRREL-CAGE MOTOR</b></p>			
<p>Unit: <b>Motors</b></p>	<p>Issued by: <b>M Prusi</b></p>	<p>Replaces:</p>	
<p>Date: <b>21.09.2005</b></p>	<p>Approved by: <b>Jari Raitila</b></p>	<p>Replaced by:</p>	
<p>Customer Reference:</p>			
<p><b>ABB Oy</b></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:		

<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>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><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:

