

BALDOR® • RELIANCE®

Customer information packet
ECR584506-PPN

M3BN 587MLB 6P 450HP

ABB Oy**PERFORMANCE DATA OF MOTOR**

Department/Author MLA000/TISA	Date of Issue 11.3.2018	Lang. En	Rev. date	Our ref. TMAA-ASUG9J-TISA21	Rev./Changed by A	Pages 1/3
Customer ref.	Saving Ident TMAA-ASUG9J-TISA21					

Driven Motor:

Catalog Number	ECR584506-PPN		
Motor type code	M3BN 587 MLB 6G		
Motor product code	3GBN983420-ADGBA02		
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		
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	450 HP		
Voltage	460 V		
Frequency	60 Hz		
Speed	1193 r/min		
Current	530 Amps		
Locked rotor Amps	770 %	Code K	
Locked rotor torque	260 %		
Breakdown torque	280 %		
No load current	200 Amps		
Rated torque	1983 lb-ft		
Load characteristics	Load %	Current Amps	Efficiency %
	100	530	95.0
	75	421	94.9
	50	320	94.0
			Power Factor
			0.83
			0.79
			0.70

Typical calculated values to NEMA. -

Motors & Generators Visiting Address
Stroinbergin puistitie 5 A
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FINLAND

ABB Oy
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PERFORMANCE DATA OF MOTOR

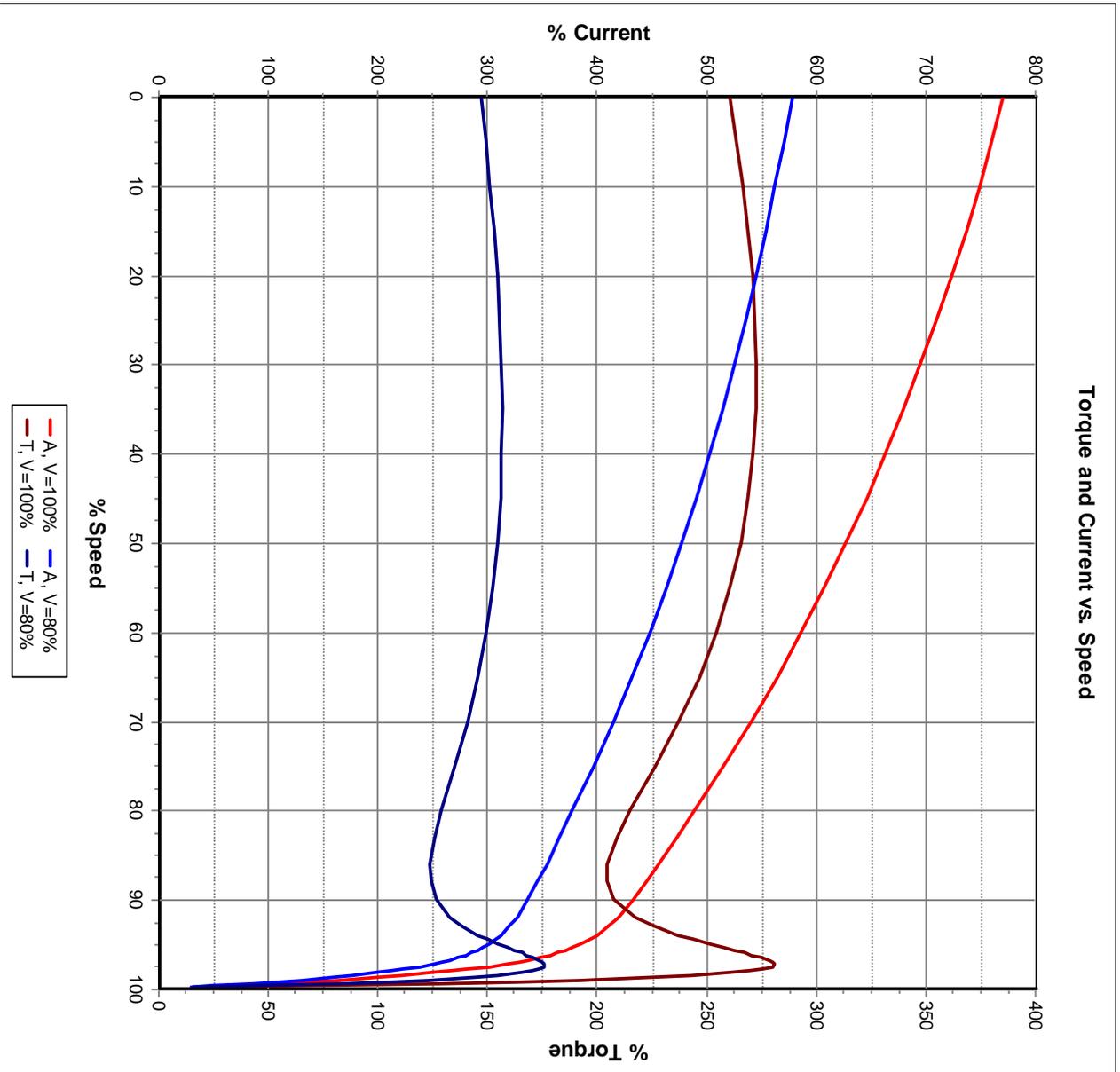


ABB Oy Motors & Generators		Date of Issue		Lang.	Rev. date	Our ref.	Pages
Department/Author MLA000/TISA		11.3.2018		En		TMAA-ASUG9J-TISA21	2/3
Customer ref.		Saving Ident		Rev./Changed by			
		TMAA-ASUG9J-TISA21		A			

Motor type code: M3BN 587 MLB 6G

Rated output	450 HP	Power Factor	0.83
Voltage	460 V	Rated torque	1983 lb-ft
Frequency	60 Hz	Locked rotor Amps	770 %
Speed	1193 r/min	Locked rotor torque	260 %
Current	530 Amps	Breakdown torque	280 %

Torque and Current vs. Speed



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

Drive1	
Rated power	112,5 HP
Rated voltage	118 V
Nominal frequency	15,4 Hz
Type of connection	Delta
Rated torque	1971 lb-ft
Speed	300 rpm
Current	533 Amps

Drive2	
Rated power	450 HP
Rated voltage	460 V
Nominal frequency	60,5 Hz
Type of connection	Delta
Rated torque	1971 lb-ft
Speed	1200 rpm
Current	585 Amps

Constant torque 300 – 1200rpm

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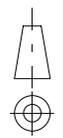
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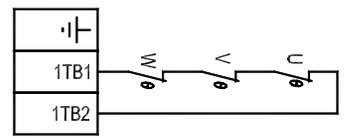
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<h2 style="margin: 0;">Connection Diagram</h2>		Document No: 3GZF321100-1 E
Description: 3-PHASE SQUIRREL-CAGE MOTOR		
Unit: Motors Date: 21.09.2005	Issued by: M Prusi Approved by: Jari Raitila	Replaces: Replaced by:
Customer Reference: ABB Oy		
<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p>Diagram of connection Anschluss-Schema Schema de branchement</p> </div> <div style="width: 45%;"> <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> <div style="display: flex; justify-content: space-around; margin-top: 10px;"> <div style="width: 45%;"> <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: 45%;"> <p>Direction of rotation with reversed phase sequence Drehrichtung mit umgekehrter Phasenfolge Direction de rotation avec séquence de phase renversé</p> </div> </div>		
Motor No Maschine Nr No du moteur		ABB Oy, Motors
Motor No Maschine Nr No du moteur		3GZF321100-1 E

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

<p style="margin: 0;"> Motor No Maschine Nr Moteur No ABB Oy, Electrical Machines LV Motors </p>	<p style="margin: 0;"> 3GZF321200-35 B </p>
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BIMETAL DETECTORS, TYPE NCC
1TB1...1TB2 BIMETALL-THERMOSCHALTER, TYP NCC
SONDES BIMETALLIQUES, TYPE NCC



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

Motor No Maschine Nr Moteur No	<table style="width: 100%;"> <tr> <td style="width: 20%; padding: 5px;"> ABB Oy, Motors </td> <td style="width: 80%; padding: 5px;"> 3GZF321200-1 D </td> </tr> </table>	ABB Oy, Motors	3GZF321200-1 D
ABB Oy, Motors	3GZF321200-1 D		

PTC-THERMISTORS
 PTC-TEMPERATURFÜHLER
 SONDES THERMIQUE PTC

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

<p>Dimension Print</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>ABB Oy</p>		

Additional Information:

