

BALDOR® • RELIANCE®

Customer information packet

ECR585004-PPN

M3BN 587MLA 4P 500HP

ABB Oy**PERFORMANCE DATA OF MOTOR**

Department/Author MLA000/TISA	Date of Issue 11.10.2018	Lang. En	Rev. date	Our ref. 3GZFE021035-1238	Rev./Changed by A	Pages 1/3
Customer ref.	Saving Ident TMAA-ASUG9J-TISA32					

Driven Motor:

Catalog Number Motor type code Motor product code Motor type Mounting designation Protected by enclosure Method of cooling Insulation Service factor Standards International efficiency classification (IEC 60034-30) Ambient temperature, max. Altitude, max.	ECR585004-PPN M3BN 587 MLA 4K 3GBN982410-ADKBA05 Squirrel cage Motor IM 1001 (B3) IP66 TEFC Class F (Shock Resistant) SF1.15 TEMP RISE CLASS F NEMA IE3 40 °C 3280 ft.a.s.l.
Duty type Temp. rise Connection of stator winding Rated output Voltage Frequency Speed Current	Continuous Class B Delta 500 HP 460 V 60 Hz 1791 r/min 576 Amps
Locked rotor Amps Locked rotor torque Breakdown torque No load current Rated torque	780 % 280 % 310 % 208 Amps 1466 lb-ft Code J
Load characteristics	Load % 100 75 50 Current Amps 576 453 340 Efficiency % 96,2 96,5 96,0 Power Factor 0,84 0,80 0,71
NEMA nominal efficiency Typical calculated values to NEMA. -	

Motors & Generators Visiting Address
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PERFORMANCE DATA OF MOTOR

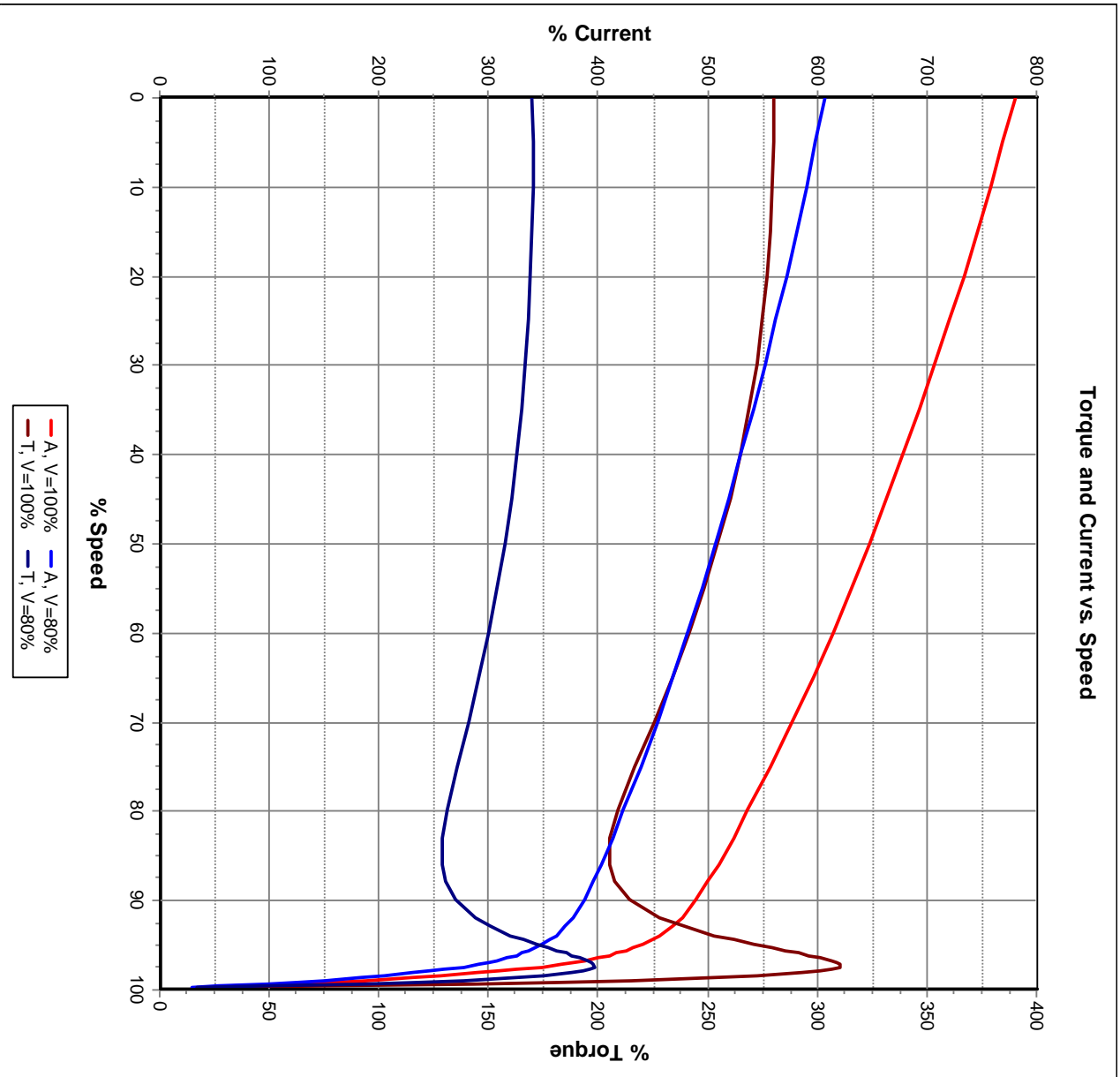


ABB Oy Motors & Generators		Date of Issue		Lang.	Rev. date	Our ref.	Pages
Department/Author MLA000/TISA		11.10.2018		En		3GZF021035-1238	2/3
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		TMAA-ASUG9J-TISA32		A			

Motor type code: M3BN 587 MLA 4K

Rated output	500 HP	Power Factor	0,84
Voltage	460 V	Rated torque	1466 lb-ft
Frequency	60 Hz	Locked rotor Amps	780 %
Speed	1791 r/min	Locked rotor torque	280 %
Current	576 Amps	Breakdown torque	310 %

Torque and Current vs. Speed




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

Drive1	
Rated power	125 HP
Rated voltage	117 V
Nominal frequency	15,3 Hz
Type of connection	Delta
Rated torque	1455 lb-ft
Speed	450 rpm
Current	574 Amps

Drive2	
Rated power	500 HP
Rated voltage	460 V
Nominal frequency	60,4 Hz
Type of connection	Delta
Rated torque	1459 lb-ft
Speed	1800 rpm
Current	627 Amps

Constant torque 450 – 1800rpm

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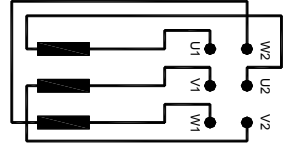
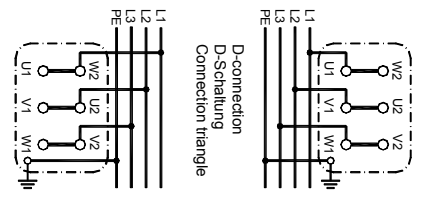
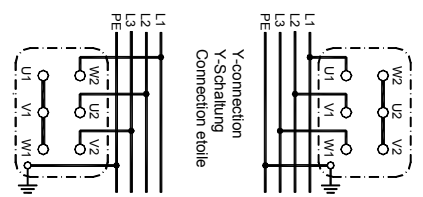
<p>Diagram of connection Anschluss-Schema Schema de branchement</p> 		<p>Direction of rotation with phase sequence shown in picture Drehrichtung nach Schaltbild Direction de rotation avec branchement ci-dessus</p> 		<p>Motor No Maschine Nr No du moteur</p> <p>ABB Oy, Motors</p>	
				<p>Document No: 3GZF321100-1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

Diagram of connection
Anschluss-Schema
Schema de branchement



Connection of terminals
Anschluss des Motors
Branchement des bornes



Direction of rotation with reversed phase sequence
Drehrichtung umgekehrt Phasefolge
Direction de rotation avec sequence de phase renversee



Motor No
Maschine Nr
No du moteur

ABB Oy, Motors

3GZF321100-1 E

Connection Diagram

Description: **3-PHASE SQUIRREL-CAGE MOTOR**

Document No:
3GZF321100-1 E



Unit: **Motors**
Date: **21.09.2005**

Issued by: **M Prusi**
Approved by: **Jari Raitila**

Replaces:
Replaced by:

ABB Oy

Customer Reference:



<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:
Date:	16.01.2002	Approved by:	M. Prusi	Replaced by:
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;"> Document No: 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	ABB Oy, Motors		
3GZF321200-1 D	<div style="text-align: center;"> </div> <p style="font-size: small; margin-top: 5px;"> PTC-THERMISTORS PTC-TEMPERATURFÜHLER SONDES THERMIQUE PTC </p> <div style="margin-top: 5px;"> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 60%;"> Note: Measuring voltage Achtung: Meßspannung Notez: Tension de meas. </td> <td style="width: 40%; text-align: center; vertical-align: middle;"> } max. 2,5 V/ 1 thermistor </td> </tr> </table> </div>	Note: Measuring voltage Achtung: Meßspannung Notez: Tension de meas.	} max. 2,5 V/ 1 thermistor
Note: Measuring voltage Achtung: Meßspannung Notez: Tension de meas.	} max. 2,5 V/ 1 thermistor		

<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>Date: 21.11.2019</p>	<p>Issued by: N.Palokangas</p>	<p>Approved by: S.Tikkanen</p>
<p>Customer Reference: ABB Oy</p>		<p>Replaces: ABB Oy</p>	<p>Replaced by: ABB Oy</p>

Additional Information:

