

BALDOR® • RELIANCE®

Customer information packet

ECR584504-PPN

M3BN 587MLA 4P 450HP

ABB Oy**PERFORMANCE DATA OF MOTOR**

Department/Author MLA000/TISA	Date of Issue 11.10.2018	Lang. En	Rev. date	Our ref. 3GZFE021035-1236	Rev./Changed by A	Pages 1/3
Customer ref.	Saving Ident TMAA-ASUG9J-TISA31					

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.	ECR584504-PPN M3BN 587 MLA 4K 3GBN982410-ADKBA04 Squirrel cage motor IM 1001 (B3) IP66 TEFC Class F (Shock Resistant) SF1.15 TEMP RISE CLASS B 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 450 HP 460 V 60 Hz 1791 r/min 519 Amps
Locked rotor Amps Locked rotor torque Breakdown torque No load current Rated torque	800 % 290 % 300 % 183 Amps 1321 lb-ft Code K
Load characteristics	Load % 100 75 50
	Current Amps 519 405 306
	Efficiency % 96.2 96.5 95.8
	Power Factor 0.84 0.81 0.72

Typical calculated values to NEMA. –
-NEMA Nominal Efficiency 96.2%

Motors & Generators Visiting Address
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PERFORMANCE DATA OF MOTOR

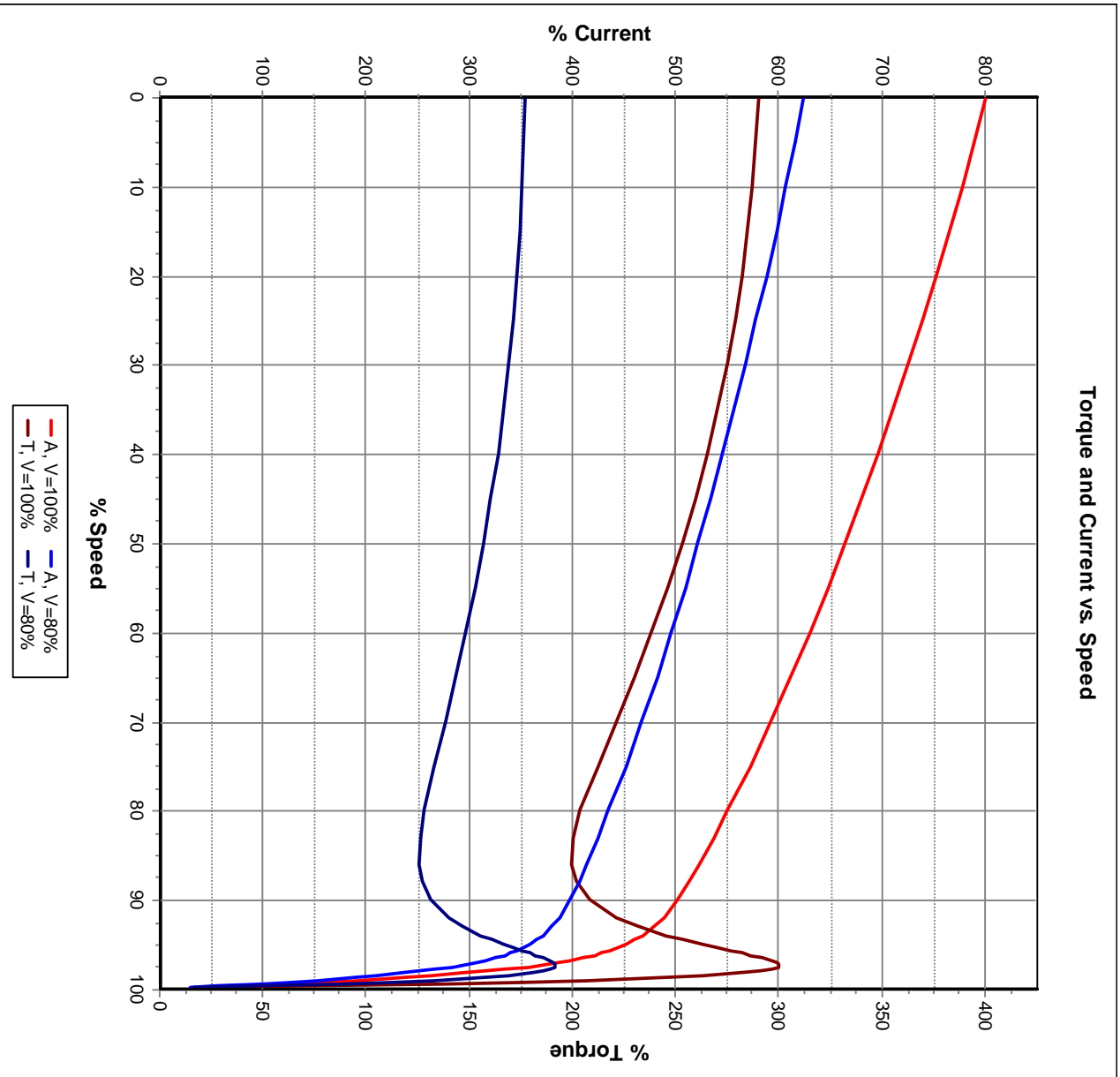


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Motor type code: M3BN 587 MLA 4K

Rated output	450 HP	Power Factor	0.84
Voltage	460 V	Rated torque	1321 lb-ft
Frequency	60 Hz	Locked rotor Amps	800 %
Speed	1791 r/min	Locked rotor torque	290 %
Current	519 Amps	Breakdown torque	300 %

Torque and Current vs. Speed




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PWM
Switch. freq. 3KHz
FWP 460VD 60Hz

Drive1	
Rated power	113 HP
Rated voltage	117 V
Nominal frequency	15,3 Hz
Type of connection	Delta
Rated torque	1314 lb-ft
Speed	450 rpm
Current	519 Amps

Drive2	
Rated power	450 HP
Rated voltage	460 V
Nominal frequency	60,4 Hz
Type of connection	Delta
Rated torque	1314 lb-ft
Speed	1800 rpm
Current	565 Amps

Constant torque 450 – 1800rpm

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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		

Diagram of connection
 Anschluss-Schema
 Schema de branchement

Connection of terminals
 Anschluss des Motors
 Branchement des bornes


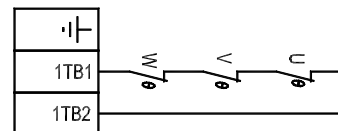
Y-connection
 Y-Schaltung
 Connection étoile

D-connection
 D-Schaltung
 Connection triangle

Direction of rotation with phase sequence shown in picture
 Drehrichtung nach Schaltbild
 Direction de rotation avec branchement ci-dessus

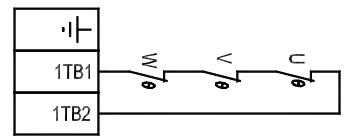
Direction of rotation with reversed phase sequence
 Drehrichtung im umgekehrten Phasenfolge
 Direction de rotation avec séquence de phase renversée

Motor No Maschine Nr No du moteur ABB Oy, Motors	Document No: 3GZF321100-1 E
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<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	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;"> 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 border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%; text-align: center;"> </td> <td style="width: 20%; text-align: center;"> 1TP1 </td> <td style="width: 20%; text-align: center;"> 1TP2 </td> <td style="width: 40%; text-align: center;"> </td> </tr> </table>		1TP1	1TP2	
	1TP1	1TP2			
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>Date: 21.11.2019</p>	<p>Issued by: N.Palokangas</p>	<p>Approved by: S.Tikkanen</p>
<p>Customer Reference:</p>		<p>Replaces:</p>	<p>Replaced by:</p>
<p>ABB Oy</p>		<p>ABB</p>	

Additional Information:

