

BALDOR® • RELIANCE™

Customer information packet

ECR583004-PPN

M3BN 587MLA 4P B3 300HP

ABB Oy**Motors & Generators****PERFORMANCE DATA OF MOTOR**

Department/Author MLA000/TISA	Date of Issue 11.10.2018	Lang. En	Rev. date	Our ref. 3GZFE021035-1234
Customer ref.		Saving Ident TMAA-ASUG9J-TISA28	Rev./Changed by A	Pages 1/3

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.		ECR583004-PPN M3BN 587 MLA 4 3GBN982410-ADKBA01 Squirrel cage Motor IM 1001 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 300 HP 460 V 60 Hz 1792 r/min 343 Amps
Locked rotor Amps Locked rotor torque Breakdown torque No load current Rated torque		770 % 250 % 310 % 123 Amps 880 lb-ft
Load characteristics	Load % 100 75 50	Code H Current Amps 343 269 202
		Efficiency % 96,2 96,4 95,7
		Power Factor 0,85 0,81 0,72
NEMA nominal efficiency Typical calculated values to NEMA. -		
96,2 %		

Motors & Generators Visiting Address
Stroinbergin puistotie 5 A
VAASA
FINLAND

Postal Address
P.O.Box 633
FI-65101 VAASA
FINLAND

ABB Oy

Telephone
+358 10 222 000

Telefax
+358 10 224 7372

PERFORMANCE DATA OF MOTOR

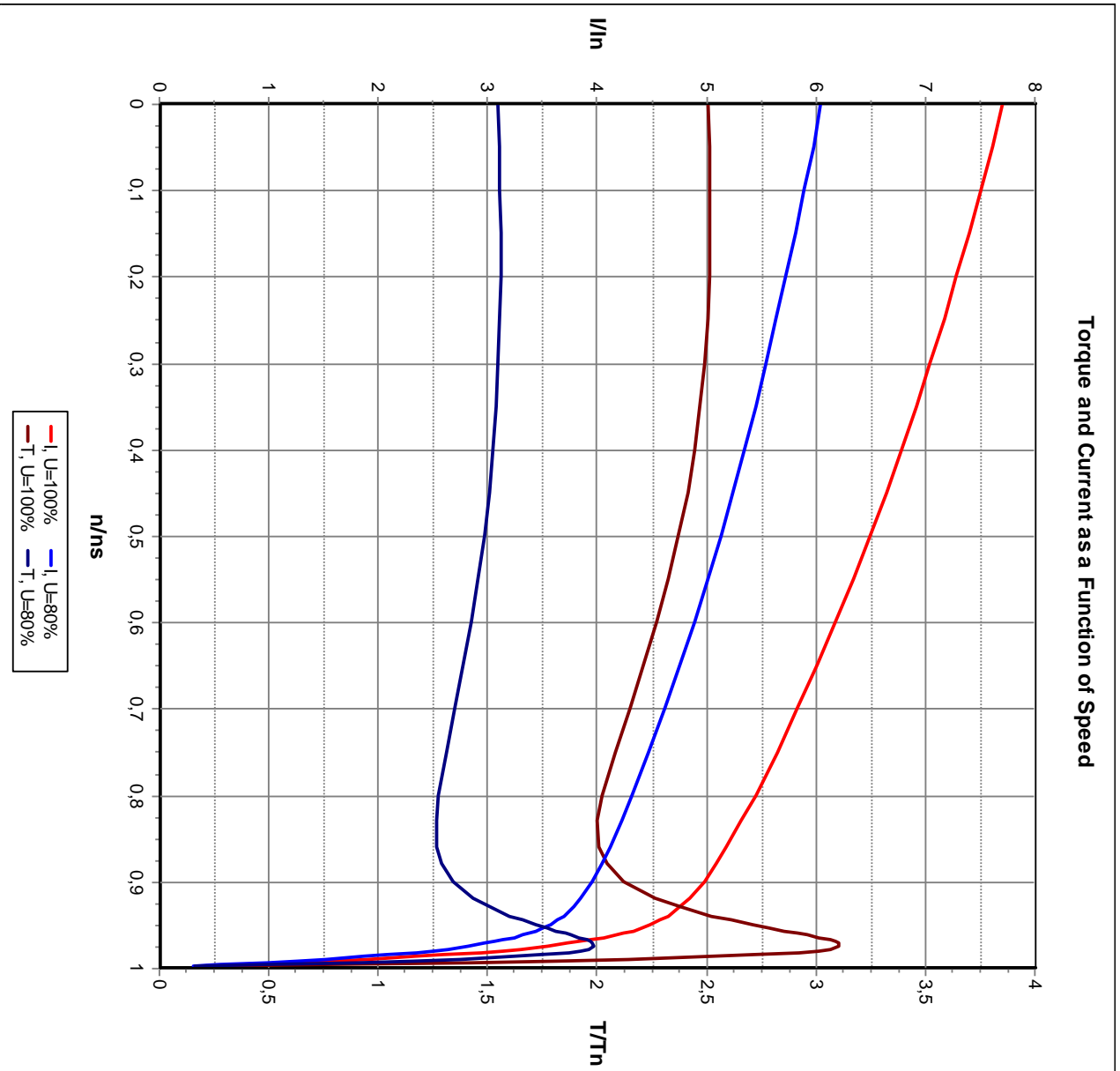


ABB Oy Motors & Generators		Date of Issue		Lang.	Rev. date	Our ref.	Pages
Department/Author MLA000/TISA		11.10.2018		En		3GZF021035-1234	2/3
Customer ref.		Saving Ident		Rev./Changed by			
		TMAA-ASUG9J-TISA28		A			

Motor type code: M3BN 587 MLA 4

Rated output	300 HP	Power Factor	0,85
Voltage	460 V	Rated torque	880 lb-ft
Frequency	60 Hz	Locked rotor Amps	770 %
Speed	1792 r/min	Locked rotor torque	250 %
Current	343 Amps	Breakdown torque	310 %

Torque and Current as a Function of Speed




Motors & Generators Visiting Address
Stroinbergin puistitie 5 A
VAASA
FINLAND

ABB Oy
Postal Address
P.O.Box 633
FI-65101 VAASA
FINLAND

Telephone
+358 10 222 000

Telefax
+358 10 224 7372

ABB OY Motors & Generators		Classifying code or document type		PERFORMANCE DATA OF MOTOR			
Department/Author	MLA000/TISA	Date of Issue	11.10.2018	Lang.	En	Rev. date	
Customer ref.		Saving Ident	TMAA-ASUG9J-TISA28	Our ref.	3GZF021035-1234	Rev./Changed by	A
				Pages			3/3

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

Drive1	
Rated power	75 HP
Rated voltage	117 V
Nominal frequency	15,3 Hz
Type of connection	Delta
Rated torque	876 lb-ft
Speed	450 rpm
Current	345 Amps

Drive2	
Rated power	300 HP
Rated voltage	460 V
Nominal frequency	60,4 Hz
Type of connection	Delta
Rated torque	876 lb-ft
Speed	1800 rpm
Current	377 Amps

Constant torque 450 – 1800rpm

Motors & Generators Visiting Address
Stroinbergin puistitie 5 A
VAASA
FINLAND

Postal Address
P.O.Box 633
FI-65101 VAASA
FINLAND

ABB OY

Telephone
+358 10 222 000


Telefax
+358 10 224 7372

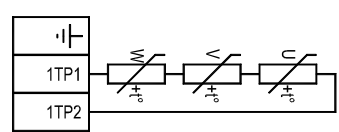
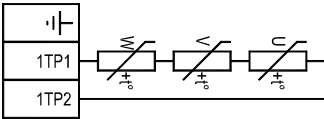
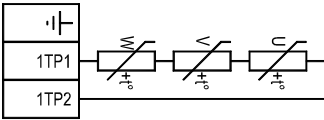
<p>Connection Diagram</p>		<p>Document No: 3GZF321100-1 E</p>	
		<p>Description: 3-PHASE SQUIRREL-CAGE MOTOR</p>	
<p>Unit: Motors</p>	<p>Issued by: M Prusi</p>	<p>Replaces:</p>	
<p>Date: 21.09.2005</p>	<p>Approved by: Jari Raitila</p>	<p>Replaced by:</p>	
<p>Customer Reference:</p>		<p>ABB</p>	

<p>Diagram of connection Anschluss-Schema Schema de branchement</p>	<p>Connection of terminals Anschluss des Motors Branchement des bornes</p> <p>Y-connection Y-Schaltung Connection étoile</p> <p>D-connection D-Schaltung Connection triangle</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 Machines Nr No du moteur</p> <p>ABB Oy, Motors</p> <p>3GZF321100-1 E</p>
<p>Direction of rotation with reversed phase sequence Drehrichtung mit umgekehrter Phasenfolge Direction de rotation avec séquence de phase renversé</p>	

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

Accessory Connection Diagram		Document No: 3GZF321200-1 D
Description: PTC-THERMISTORS		
Unit: Motors	Issued by: K. Höglkvist	Replaces:
Date: 30.11.2005	Approved by: M. Prusi	Replaced by:
ABB Oy	Customer Reference:	

Motor No Maschine Nr Moteur No ABB Oy, Motors	<table border="1" style="width: 100%;"> <tr> <td style="text-align: center;">  </td> <td style="padding-left: 10px;"> PTC-THERMISTORS PTC-TEMPERATURFÜHLER SONDES THERMIQUE PTC </td> </tr> <tr> <td colspan="2"> Note: Measuring voltage } max. 2,5 V/ Achtung: Meßspannung } 1 thermistor Notez: Tension de meas. } </td> </tr> </table>		PTC-THERMISTORS PTC-TEMPERATURFÜHLER SONDES THERMIQUE PTC	Note: Measuring voltage } max. 2,5 V/ Achtung: Meßspannung } 1 thermistor Notez: Tension de meas. }	
	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: ABB Oy</p>			<p>ABB</p>		

Additional Information:

