

BALDOR® • RELIANCE™

Customer information packet
ECR583004-PPN

M3BN 587MLA 4P B3 300HP

ABB Oy**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	Code H
	Load % 100 75 50
	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
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PERFORMANCE DATA OF MOTOR

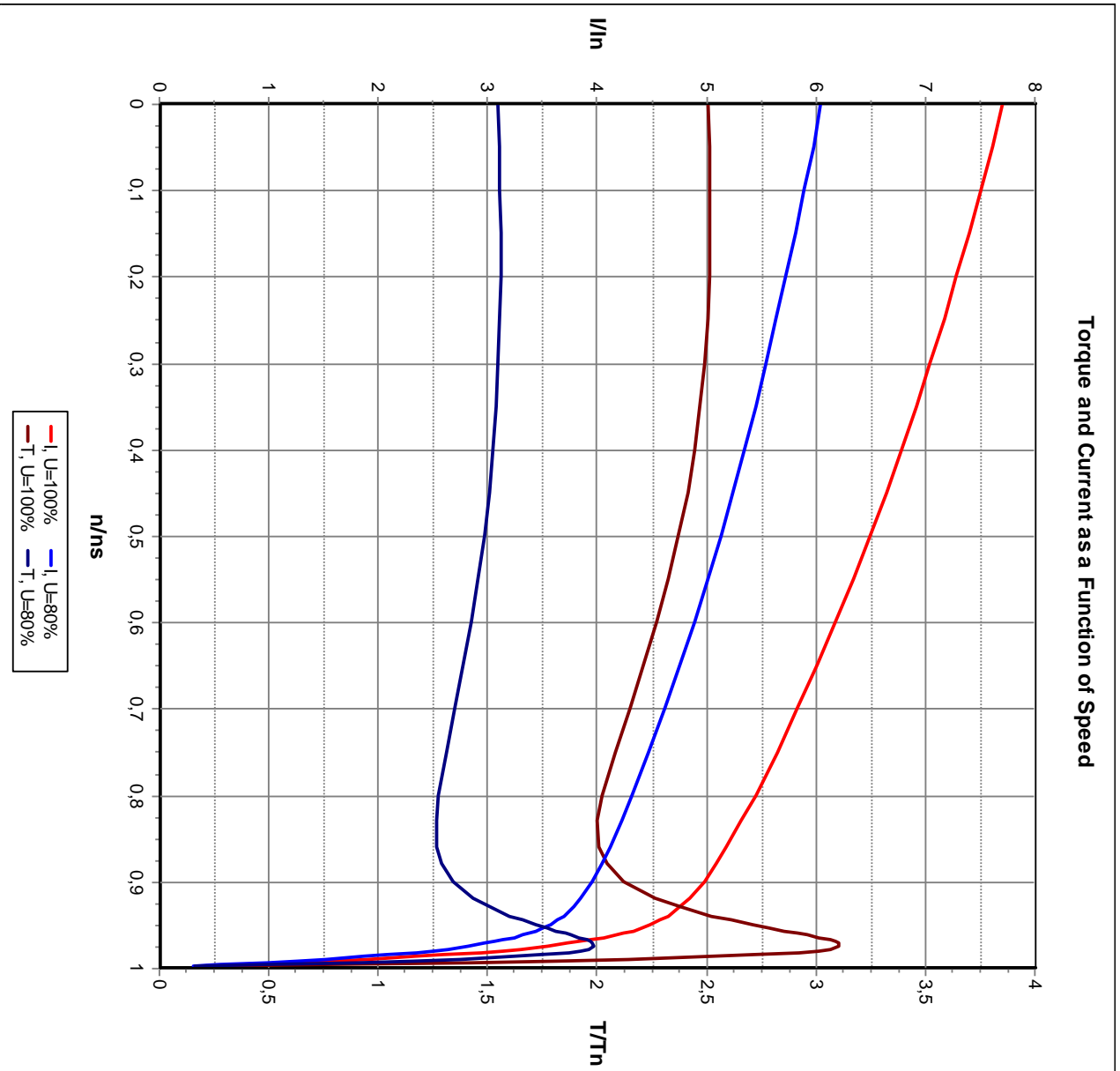


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Motor type code: M3BN 587 MLA 4

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




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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


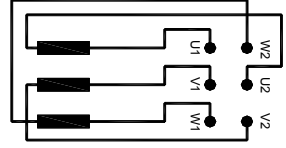
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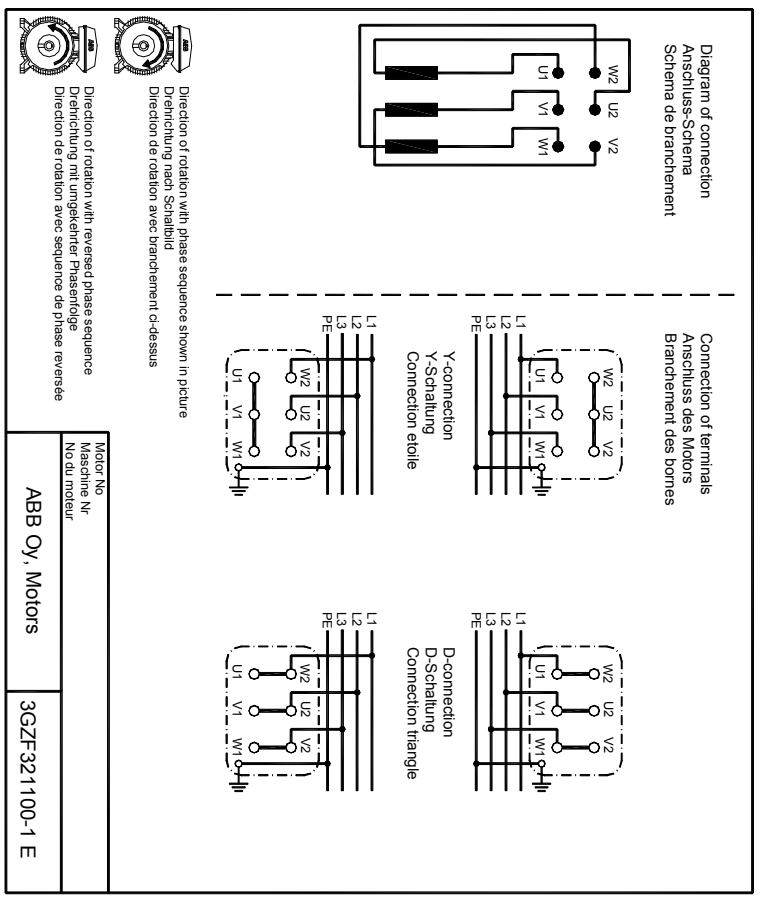
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<p>Connection Diagram</p>		<p>Document No: 3GZF321100-1 E</p>	
		<p>Description: 3-PHASE SQUIRREL-CAGE MOTOR</p>	
<p>Unit: Motors</p>	<p>Issued by: M Prusi</p>	<p>Replaces:</p>	
<p>Date: 21.09.2005</p>	<p>Approved by: Jari Raitila</p>	<p>Replaced by: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

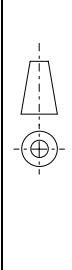
<p style="margin: 0;"> BIMETAL DETECTORS, TYPE NCC 1TB1...1TB2 BIMETALL-THERMOSCHALTER, TYP NCC SONDES BIMETALLIQUES, TYPE NCC </p>	
Motor No Maschine Nr Moteur No	ABB Oy, Electrical Machines LV Motors
3GZF321200-35 B	B

<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
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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>Additional Information:</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: Date:</p>	<p>ABB Oy, Motors and Generators 21.11.2019</p>	<p>Issued by: Approved by:</p>	<p>N.Palokangas S. Tikkanen</p>	<p>Replaces: Replaced by:</p>	
<p>ABB Oy</p>		<p>Customer Reference:</p>		