

BALDOR® • RELIANCE®

Customer information packet

ECR584004-PPN

M3BN 587MLA 4P B3 400HP

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

Department/Author MLA000/TISA	Date of Issue 11.10.2018	Lang. En	Rev. date	Our ref. 3GZFE021035-1233
Customer ref.		Saving Ident TMAA-ASUG9J-TISA30	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.	ECR584004-PPN M3BN 587 MLA 4K 3GBN982410-ADKBA03 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 400 HP 460 V 60 Hz 1791 r/min 452 Amps
Locked rotor Amps Locked rotor torque Breakdown torque No load current Rated torque	720 % 220 % 270 % 134 Amps 1171 lb-ft
Load characteristics	Code H
	720 % 220 % 270 % 134 Amps 1171 lb-ft
	452 346 253
	100 75 50
	Current Amps
	Efficiency %
	Power Factor
	96,2 96,4 96,0
	0,86 0,84 0,77

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

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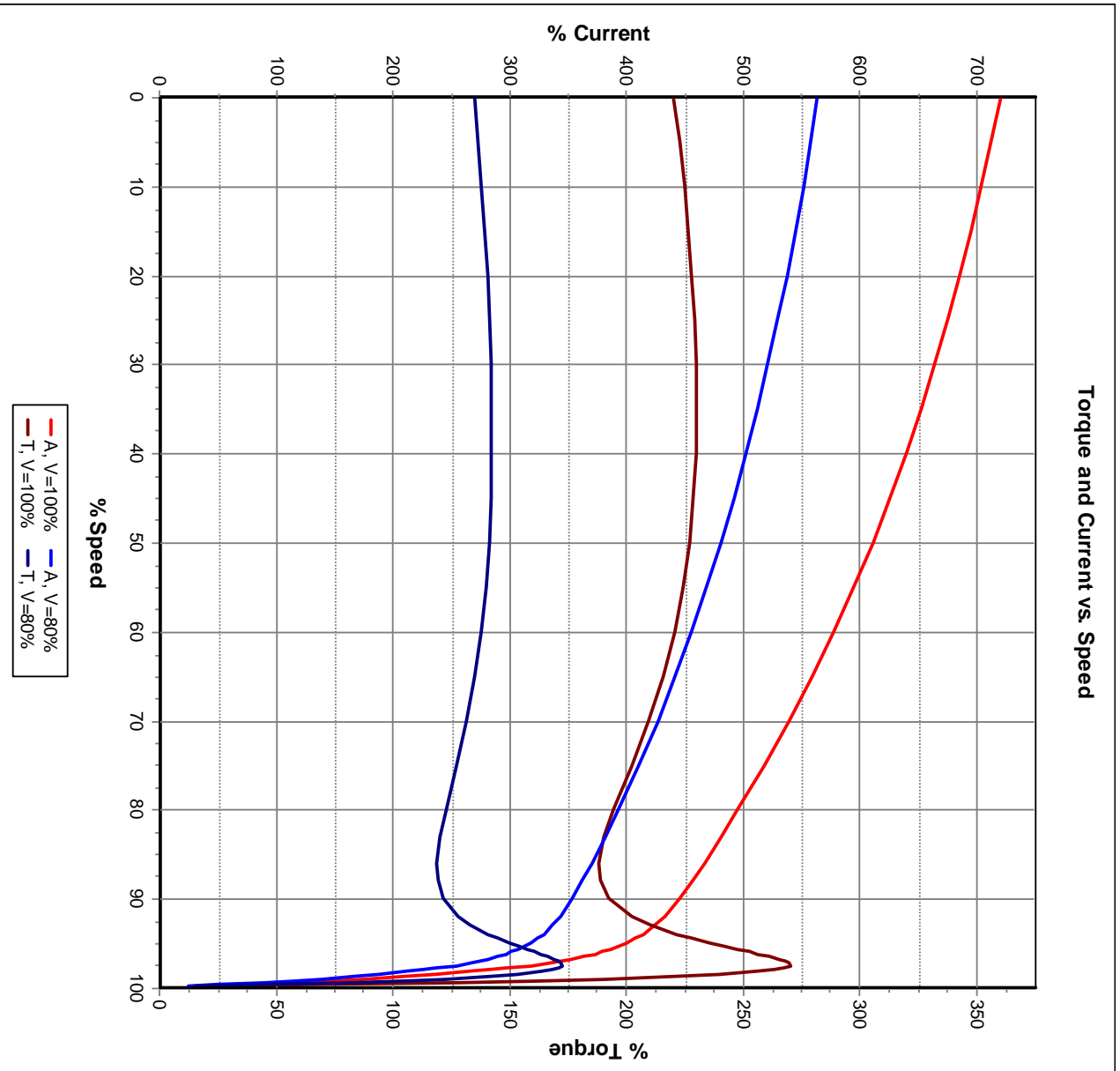
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ABB Oy Motors & Generators		Date of Issue		Lang.	Rev. date	Our ref.	Pages	
Department/Author MLA000/TISA		11.10.2018		En		3GZF021035-1233	2/3	
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Motor type code: M3BN 587 MLA 4K			
Rated output	400 HP	Power Factor	0,86
Voltage	460 V	Rated torque	1171 lb-ft
Frequency	60 Hz	Locked rotor Amps	720 %
Speed	1791 r/min	Locked rotor torque	220 %
Current	452 Amps	Breakdown torque	270 %

Torque and Current vs. Speed




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

Drive1	
Rated power	100 HP
Rated voltage	117 V
Nominal frequency	15,3 Hz
Type of connection	Delta
Rated torque	1166 lb-ft
Speed	450 rpm
Current	456 Amps

Drive2	
Rated power	400 HP
Rated voltage	460 V
Nominal frequency	60,4 Hz
Type of connection	Delta
Rated torque	1166 lb-ft
Speed	1800 rpm
Current	499 Amps

Constant torque 450 – 1800rpm



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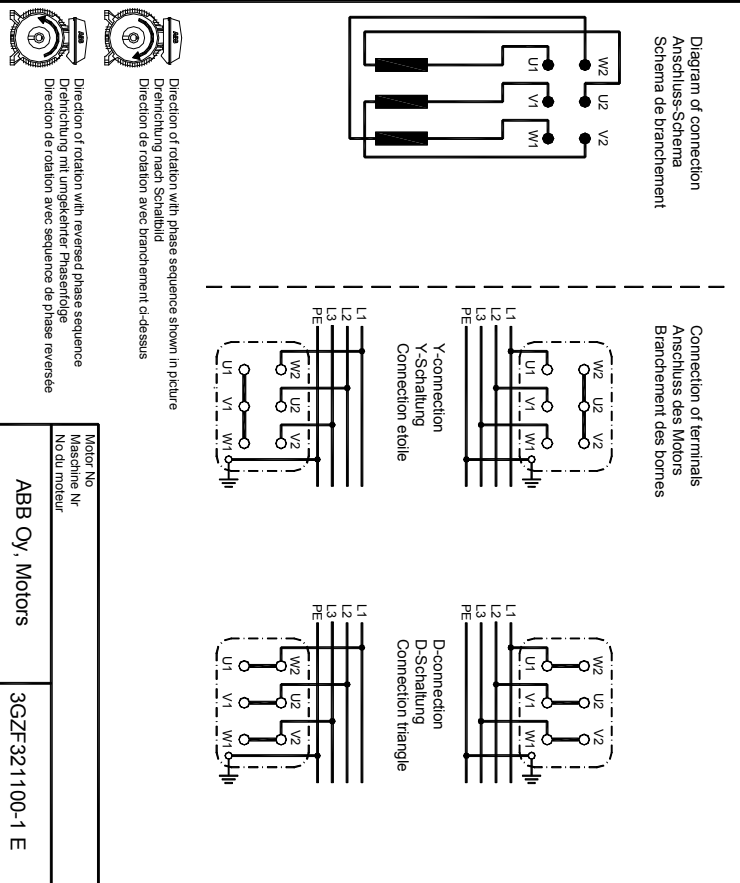
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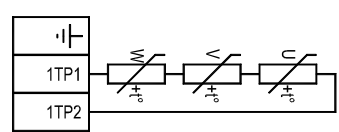
<p>Connection Diagram</p>		<p>Document No: 3GZF321100-1 E</p>	
		<p>Description: 3-PHASE SQUIRREL-CAGE MOTOR</p>	
<p>Unit: Motors</p>	<p>Issued by: M Prusi</p>	<p>Replaces:</p>	
<p>Date: 21.09.2005</p>	<p>Approved by: Jari Raitila</p>	<p>Replaced by:</p>	
<p>ABB Oy</p>		<p>Customer Reference:</p>	



<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

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:		

<p>Motor No Maschine Nr Moteur No</p> <p>ABB Oy, Motors 3GZF321200-1 D</p>	 <p>PTC-THERMISTORS PTC-TEMPERATURFÜHLER SONDES THERMIQUE PTC</p> <p>Note: Measuring voltage } max. 2,5 V/ Achtung: Meßspannung } 1 thermistor Notez: Tension de meas. }</p>
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<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>ABB Oy</p>			<p>Customer Reference:</p>		<p>ABB</p>

Additional Information:

