

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	ECR583004-PPN		
Motor type code	M3BN 587 MLA 4		
Motor product code	3GBN982410-ADKBA01		
Motor type	Squirrel cage Motor		
Mounting designation	IM 1001		
Protected by enclosure	IP66		
Method of cooling	TEFC		
Insulation	Class F (Shock Resistant)		
Service factor	SF1.15 TEMP RISE CLASS B		
Standards	NEMA		
International efficiency classification (IEC 60034-30)	IE3		
Ambient temperature, max.	40 °C		
Altitude, max.	3280 ft.a.s.l.		
Duty type	Continuous		
Temp. rise	Class B		
Connection of stator winding	Delta		
Rated output	300 HP		
Voltage	460 V		
Frequency	60 Hz		
Speed	1792 r/min		
Current	343 Amps		
Locked rotor Amps	770 %	Code H	
Locked rotor torque	250 %		
Breakdown torque	310 %		
No load current	123 Amps		
Rated torque	880 lb-ft		
Load characteristics	Load %	Current Amps	Efficiency %
	100	343	96,2
	75	269	96,4
	50	202	95,7
NEMA nominal efficiency			96,2 %

Typical calculated values to NEMA. -

Motors & Generators Visiting Address
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PERFORMANCE DATA OF MOTOR

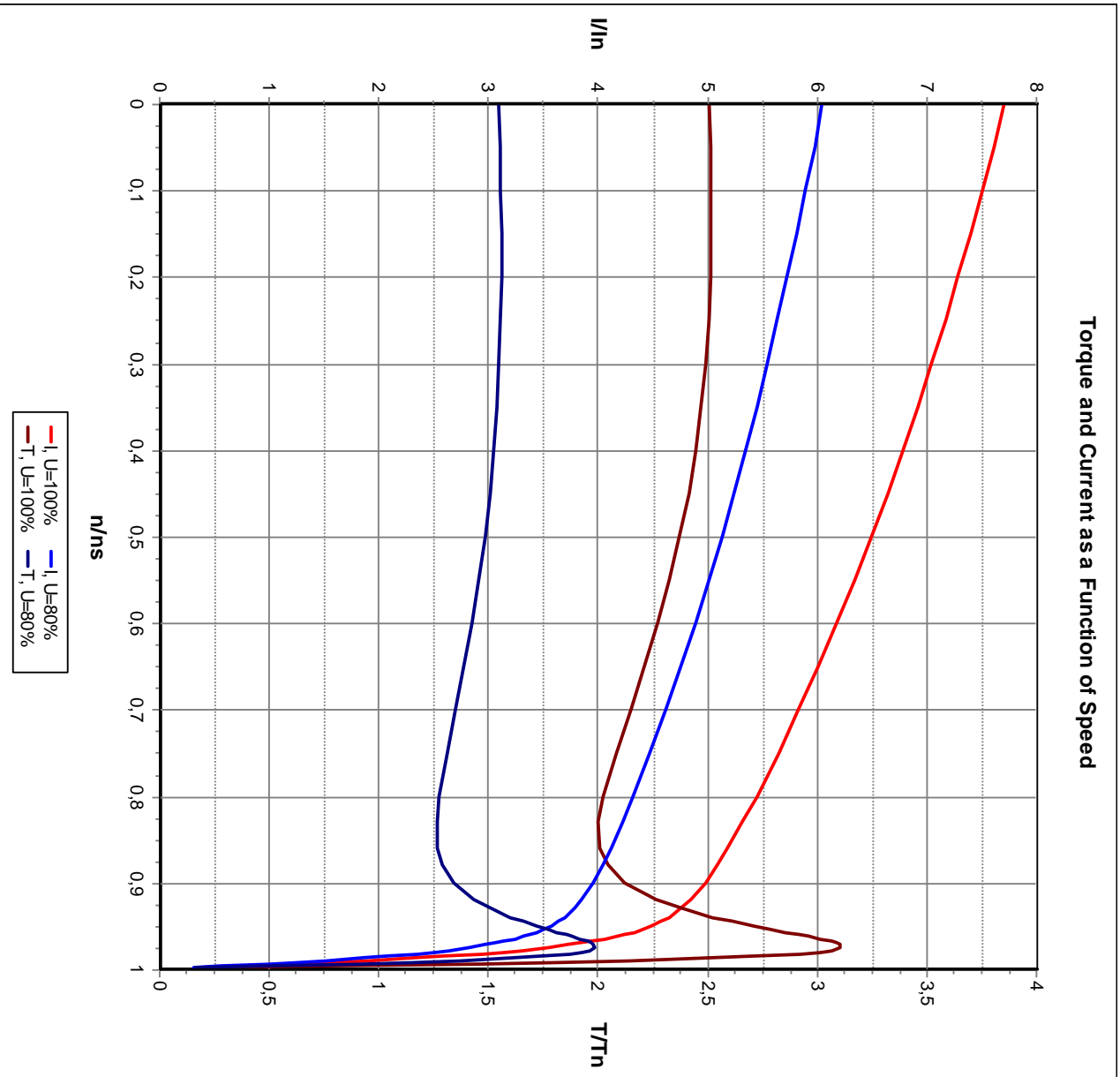


ABB Oy Motors & Generators		Date of Issue		Lang.	Rev. date	Our ref.	Pages	
Department/Author MLA000/TISA		11.10.2018		En		3GZF021035-1234	2/3	
Customer ref.		Saving Ident		Rev./Changed by		TMAA-ASUG9J-TISA28 A		

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




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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


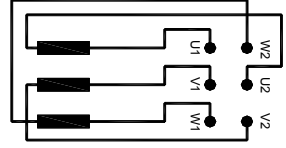
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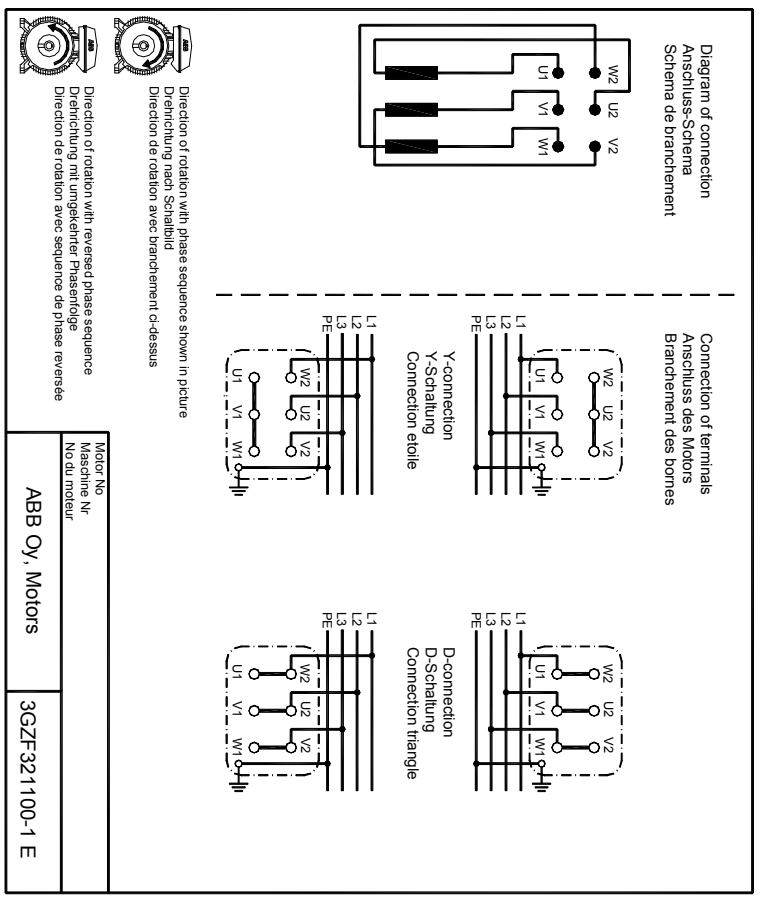
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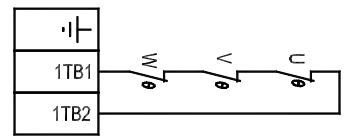
<p>Connection Diagram</p>		<p>Document No: 3GZF321100-1 E</p>	
		<p>Description: 3-PHASE SQUIRREL-CAGE MOTOR</p>	
<p>Unit: Motors</p>	<p>Issued by: M Prusi</p>	<p>Replaces:</p>	
<p>Date: 21.09.2005</p>	<p>Approved by: Jari Raitila</p>	<p>Replaced by:</p>	
<p>ABB Oy</p>		<p>Customer Reference:</p>	




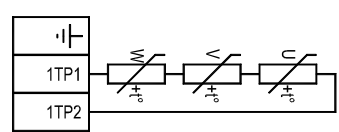
<h2 style="margin: 0;">Accessory Connection Diagram</h2>				Document No: 3GZF321200-35 B
Description: BIMETAL DETECTORS				
Unit: Electrical Machines, LV Motors	Issued by: K. Höglkvist	Replaces:		
Date: 16.01.2002	Approved by: M. Prusi	Replaced by:		
ABB Oy		Customer Reference:		

<p style="margin: 0;"> 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



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

Additional Information:

