

BALDOR® • RELIANCE®

Customer information packet

ECR585004-PPN

M3BN 587MLA 4P 500HP

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

Department/Author MLA000/TISA	Date of Issue 11.10.2018	Lang. En	Rev. date	Our ref. 3GZFE021035-1238
Customer ref.		Saving Ident TMAA-ASUG9J-TISA32	Rev./Changed by A	Pages 1/3

Driven Motor:

Catalog Number	ECR585004-PPN		
Motor type code	M3BN 587 MLA 4K		
Motor product code	3GBN982410-ADKBA05		
Motor type	Squirrel cage Motor		
Mounting designation	IM 1001 (B3)		
Protected by enclosure	IP66		
Method of cooling	TEFC		
Insulation	Class F (Shock Resistant)		
Service factor	SF1.15 TEMP RISE CLASS F		
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	500 HP		
Voltage	460 V		
Frequency	60 Hz		
Speed	1791 r/min		
Current	576 Amps		
Locked rotor Amps	780 %	Code J	
Locked rotor torque	280 %		
Breakdown torque	310 %		
No load current	208 Amps		
Rated torque	1466 lb-ft		
Load characteristics	Load %	Current Amps	Efficiency %
	100	576	96,2
	75	453	96,5
	50	340	96,0
			0,84
			0,80
			0,71
NEMA nominal efficiency			96,2 %

Typical calculated values to NEMA. -

Motors & Generators Visiting Address
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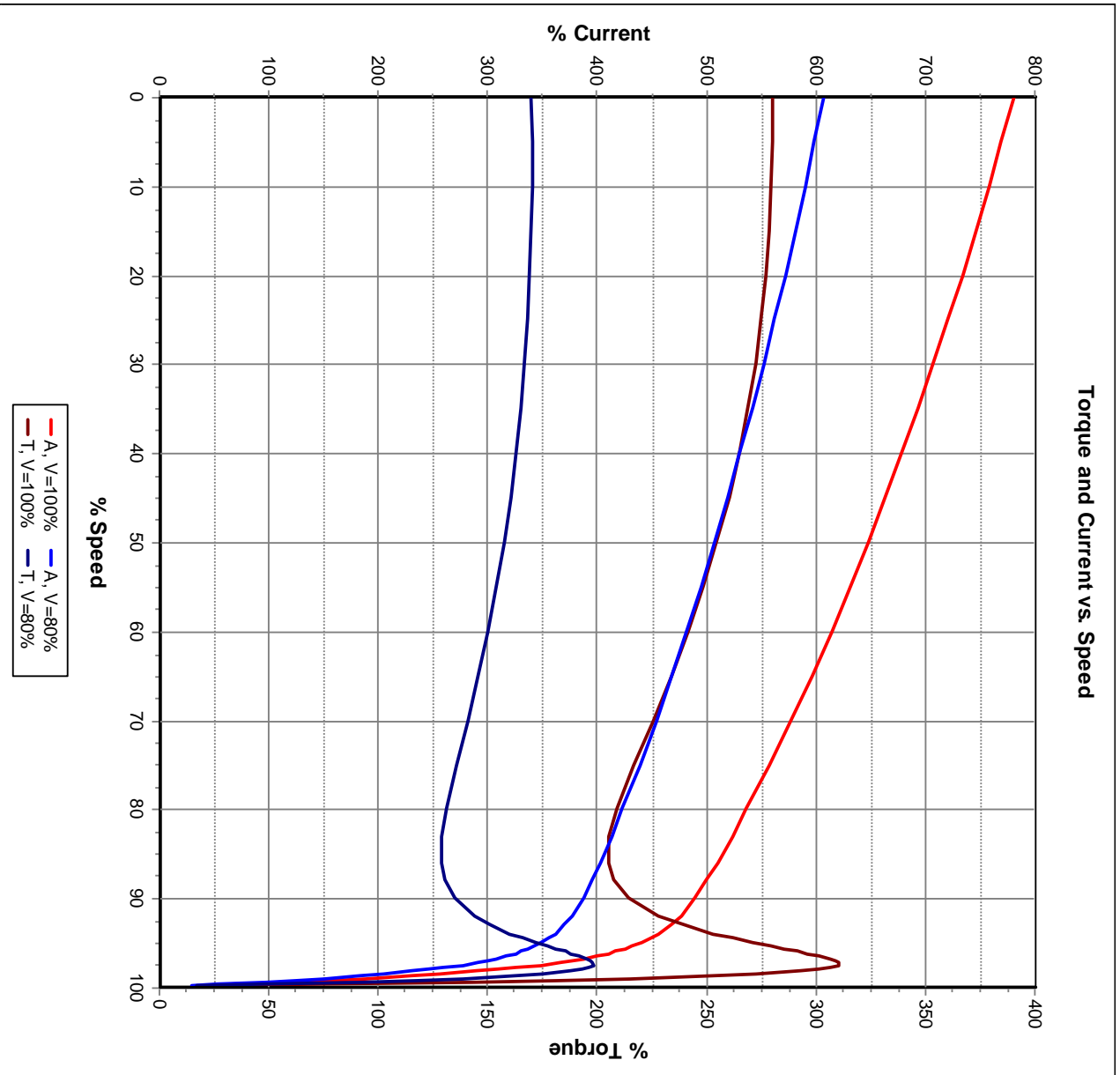
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PERFORMANCE DATA OF MOTOR



ABB Oy Motors & Generators		Date of Issue		Lang.	Rev. date	Our ref.	Pages
Department/Author MLA000/TISA		11.10.2018		En		3GZF021035-1238	2/3
Customer ref.		Saving Ident		Rev./Changed by			
		TMAA-ASUG9J-TISA32		A			

Motor type code: M3BN 587 MLA 4K			
Rated output	500 HP	Power Factor	0,84
Voltage	460 V	Rated torque	1466 lb-ft
Frequency	60 Hz	Locked rotor Amps	780 %
Speed	1791 r/min	Locked rotor torque	280 %
Current	576 Amps	Breakdown torque	310 %




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PWM
 Switch . freq. 3KHz
 FWP 460V/D 60Hz
 VSD-duty: Temp. rise class F

Drive1	
Rated power	125 HP
Rated voltage	117 V
Nominal frequency	15,3 Hz
Type of connection	Delta
Rated torque	1455 lb-ft
Speed	450 rpm
Current	574 Amps

Drive2	
Rated power	500 HP
Rated voltage	460 V
Nominal frequency	60,4 Hz
Type of connection	Delta
Rated torque	1459 lb-ft
Speed	1800 rpm
Current	627 Amps

Constant torque 450 – 1800rpm

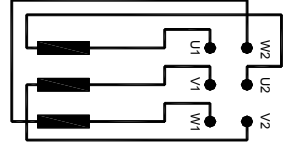
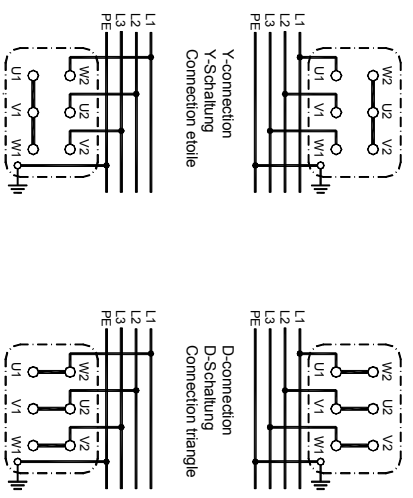
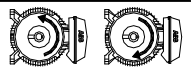


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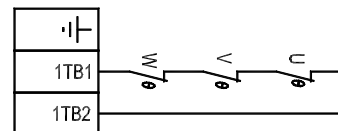
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<p>Diagram of connection Anschluss-Schema Schema de branchement</p> 		<p>Diagram of terminals Anschluss des Motors Branchement des bornes</p> 	
<p>Direction of rotation with phase sequence shown in picture Drehrichtung nach Schaltbild Direction de rotation avec branchement ci-dessus</p> 		<p>Direction of rotation with reversed phase sequence Drehrichtung mit umgekehrter Phasenfolge Direction de rotation avec sequence de phase renversee</p> 	
<p>Motor No Machine Nr No du moteur</p> <p>ABB Oy, Motors</p>		<p>Document No: 3GZF321100-1 E</p>	
<p>Connection Diagram</p>			
<p>Description: 3-PHASE SQUIRREL-CAGE MOTOR</p>			
Unit:	Motors	Issued by:	M Prusi
Date:	21.09.2005	Approved by:	Jari Raitila
		Replaces:	
		Replaced by:	
<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:	ABB	

Motor No Maschine Nr Moteur No ABB Oy, Motors 3GZF321200-1 D	<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:

