

BALDOR® • RELIANCE™

Customer information packet
ECR585006-PPN

M3BN 587MLB 6P 500HP

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

Department/Author	Date of Issue	Lang.	Rev. date	Our ref.	Pages
M/LA000/TISA	11.3.2018	En		TMAA-ASUG9J-TISA22	1/3
Customer ref.			Saving Ident	Rev./Changed by	
			TMAA-ASUG9J-TISA22	A	

Driven Motor:

Catalog Number	ECR585006-PPN			
Motor type code	M3BN 587 MLB 6K			
Motor product code	3GBN983420-ADKBA04			
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	1194 r/min			
Current	603 Amps			
Locked rotor Amps	720 %	Code H		
Locked rotor torque	220 %			
Breakdown torque	250 %			
No load current	229 Amps			
Rated torque	2200 lb-ft			
Load characteristics				
	Load %	Current Amps	Efficiency %	Power Factor
	100	603	95,8	0,81
	75	474	96,2	0,77
	50	359	95,9	0,68

Typical calculated values to NEMA. –

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PERFORMANCE DATA OF MOTOR

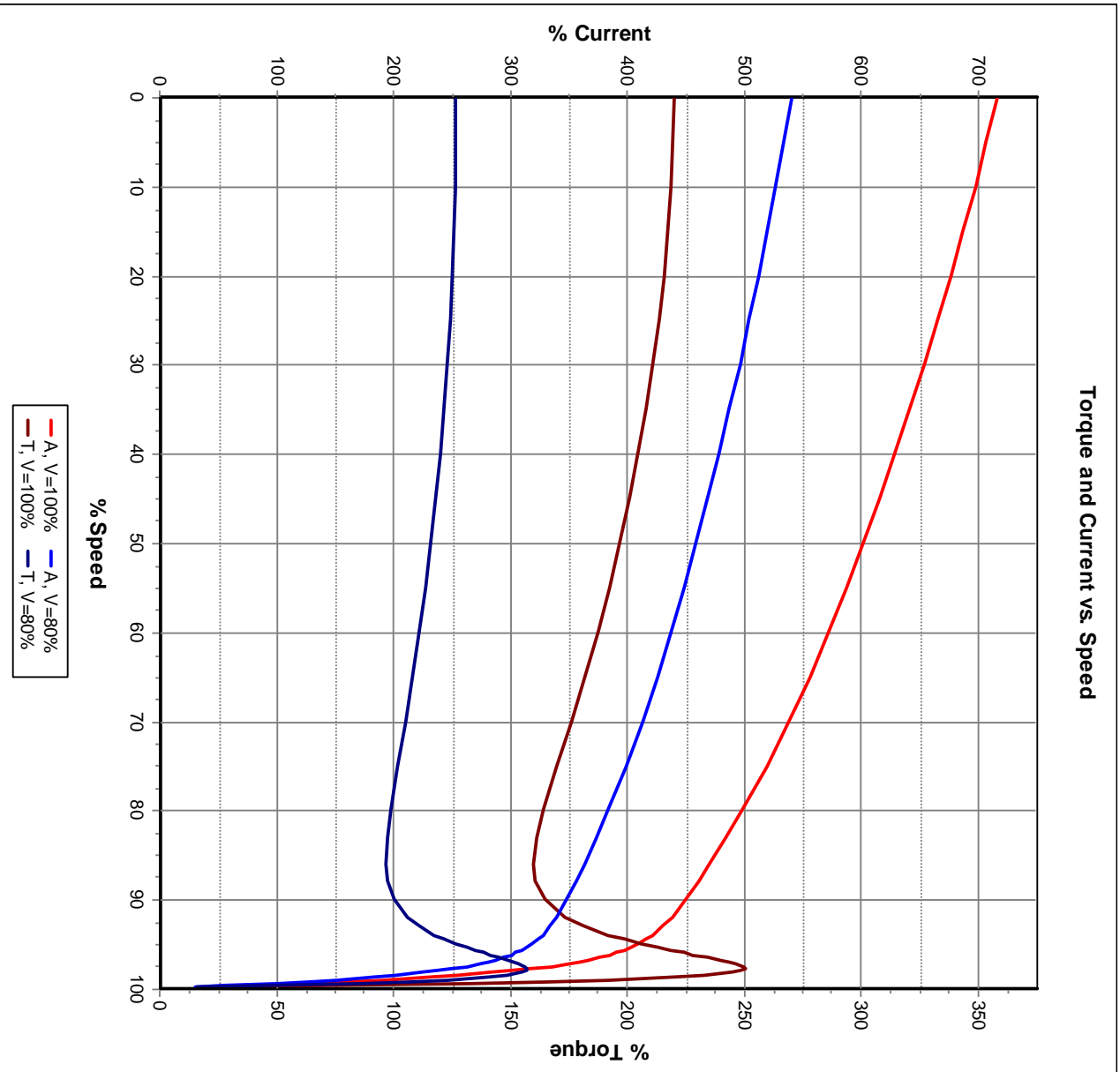


ABB Oy Motors & Generators		Date of Issue		Lang.	Rev. date	Our ref.	Pages
Department/Author MLA000/TISA		11.3.2018		En		TMAA-ASUG9J-TISA22	2/3
Customer ref.		Saving Ident		Rev./Changed by			
		TMAA-ASUG9J-TISA22		A			

Motor type code: M3BN 587 MLB 6K

Rated output	500 HP	Power Factor	0,81
Voltage	460 V	Rated torque	2200 lb-ft
Frequency	60 Hz	Locked rotor Amps	720 %
Speed	1194 r/min	Locked rotor torque	220 %
Current	603 Amps	Breakdown torque	250 %

Torque and Current vs. Speed



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ABB Oy		Classifying code or document type	
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		Rev./Changed by	Pages
		A	3/3



PWM
 Switch . freq. 3KHz
 FWP 460VD 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	2182 lb-ft
Speed	300 rpm
Current	603 Amps

Drive2	
Rated power	500 HP
Rated voltage	460 V
Nominal frequency	60,4 Hz
Type of connection	Delta
Rated torque	2188 lb-ft
Speed	1200 rpm
Current	652 Amps

Constant torque 300 – 1200rpm


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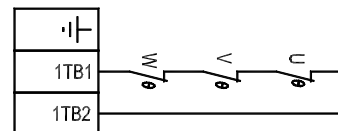
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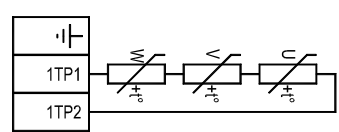
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<p>Diagram of connection Anschluss-Schema Schema de branchement</p>		<p>Direction of rotation with phase sequence shown in picture Drehrichtung nach Schaltbild Direction de rotation avec branchement ci-dessus</p>	
<p>Diagram of terminals Anschluss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

