

BALDOR® • RELIANCE™

Customer information packet

ECR583506-PPN

M3BN 587MLB 6P B4 350HP

ABB Oy**PERFORMANCE DATA OF MOTOR**

Department/Author MLA000/TISA	Date of Issue 11.10.2018	Lang. En	Rev. date	Our ref. 3GZFE021035-1235
Customer ref.		Saving Ident TMAA-ASUG9J-TISA35	Rev./Changed by A	Pages 1/3

Driven Motor:

Catalog Number	ECR583506-PPN		
Motor type code	M3BN 587 MLB 6K		
Motor product code	3GBN983420-ADKBA03		
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	350 HP		
Voltage	460 V		
Frequency	60 Hz		
Speed	1194 r/min		
Current	407 Amps		
Locked rotor Amps	700 %	Code H	
Locked rotor torque	210 %		
Breakdown torque	250 %		
No load current	144 Amps		
Rated torque	1539 lb-ft		
Load characteristics	Load %	Current Amps	Efficiency %
	100	407	95,8
	75	320	96,1
	50	237	95,8
			Power Factor
			0,84
			0,80
			0,72

Typical calculated values to NEMA. –
-NEMA Nominal Efficiency 95.8%

Motors & Generators Visiting Address
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PERFORMANCE DATA OF MOTOR

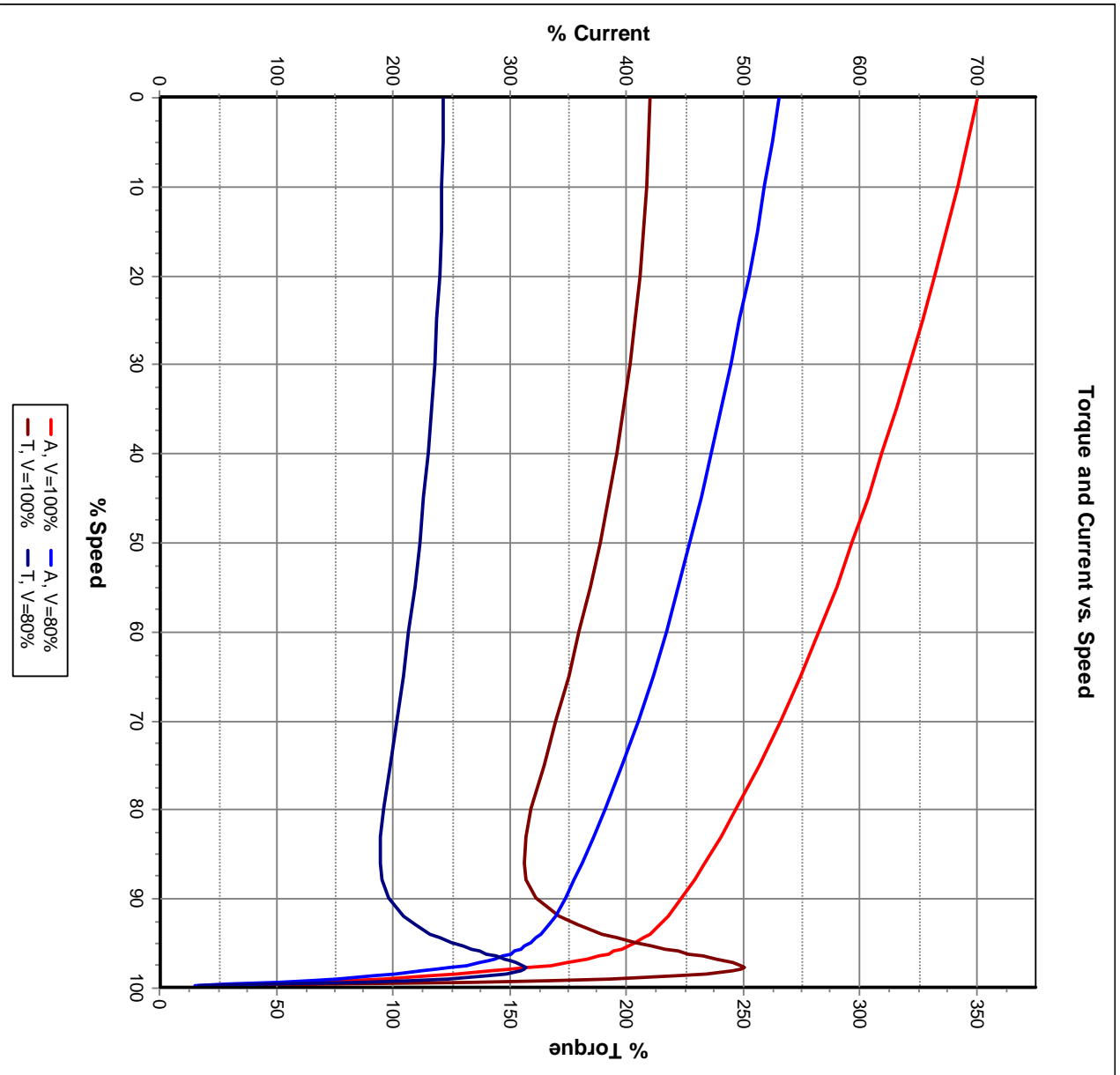


ABB Oy Motors & Generators		Date of Issue		Lang.	Rev. date	Our ref.	Rev./Changed by	Pages
Department/Author MLA000/TISA		11.10.2018		En		3GZF021035-1235		2/3
Customer ref.		Saving Ident		TMAA-ASUG9J-TISA35		A		

Motor type code: M3BN 587 MLB 6K

Rated output	350 HP	Power Factor	0,84
Voltage	460 V	Rated torque	1539 lb-ft
Frequency	60 Hz	Locked rotor Amps	700 %
Speed	1194 r/min	Locked rotor torque	210 %
Current	407 Amps	Breakdown torque	250 %

Torque and Current vs. Speed




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MLA000/TISA	11.10.2018	EN		3GZF021035-1235		
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PWM
 Switch . freq. 3KHz
 FWP 460V/D 60Hz
 VSD-duty: Temp. rise class F

Drive1	
Rated power	87,5 HP
Rated voltage	117 V
Nominal frequency	15,3 Hz
Type of connection	Delta
Rated torque	1532 lb-ft
Speed	300 rpm
Current	415 Amps

Drive2	
Rated power	350 HP
Rated voltage	460 V
Nominal frequency	60,4 Hz
Type of connection	Delta
Rated torque	1531 lb-ft
Speed	1200 rpm
Current	442 Amps

Constant torque 300 – 1200rpm

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<h2 style="margin: 0;">Connection Diagram</h2>		Document No: 3GZF321100-1 E
Description: 3-PHASE SQUIRREL-CAGE MOTOR		
Unit: Motors Date: 21.09.2005	Issued by: M Prusi Approved by: Jari Raitila	Replaces: Replaced by:
Customer Reference: ABB Oy		

Diagram of connection
 Anschluss-Schema
 Schema de branchement

Connection of terminals
 Anschluss des Motors
 Branchement des bornes

Y-connection
 Y-Schaltung
 Connection étoile

D-connection
 D-Schaltung
 Connection triangle


Direction of rotation with phase sequence shown in picture
 Drehrichtung nach Schaltbild
 Direction de rotation avec branchement ci-dessus

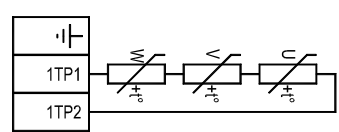
Direction of rotation with reversed phase sequence
 Drehrichtung mit umgekehrter Phasenfolge
 Direction de rotation avec séquence de phase renversée

Motor No Maschine Nr No du moteur	ABB Oy, Motors
3GZF321100-1 E	3GZF321100-1 E

<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 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>Additional Information:</p>			
<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>Customer Reference: ABB Oy</p>			