

BALDOR® • RELIANCE™

Customer information packet

ECR583006-PPN

M3BN 587MLB 6P B3 300HP

ABB Oy**PERFORMANCE DATA OF MOTOR**

Department/Author MLA000/TISA	Date of Issue 11.10.2018	Lang. En	Rev. date	Our ref. 3GZFE021035-1237
Customer ref.		Saving Ident TMAA-ASUG9J-TISA34	Rev./Changed by A	Pages 1/3

Driven Motor:

Catalog Number	ECR583006-PPN		
Motor type code	M3BN 587 MLB 6K		
Motor product code	3GBN983420-ADKBA02		
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	1195 r/min		
Current	352 Amps		
Locked rotor Amps	750 %	Code J	
Locked rotor torque	230 %		
Breakdown torque	280 %		
No load current	134 Amps		
Rated torque	1320 lb-ft		
Load characteristics	Load %	Current Amps	Efficiency %
	100	352	95.8
	75	279	95.9
	50	212	95.4
			Power Factor
			0.83
			0.79
			0.70

Typical calculated values to NEMA.
- Nema Nominal Eff. 95.8%

Motors & Generators Visiting Address
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PERFORMANCE DATA OF MOTOR

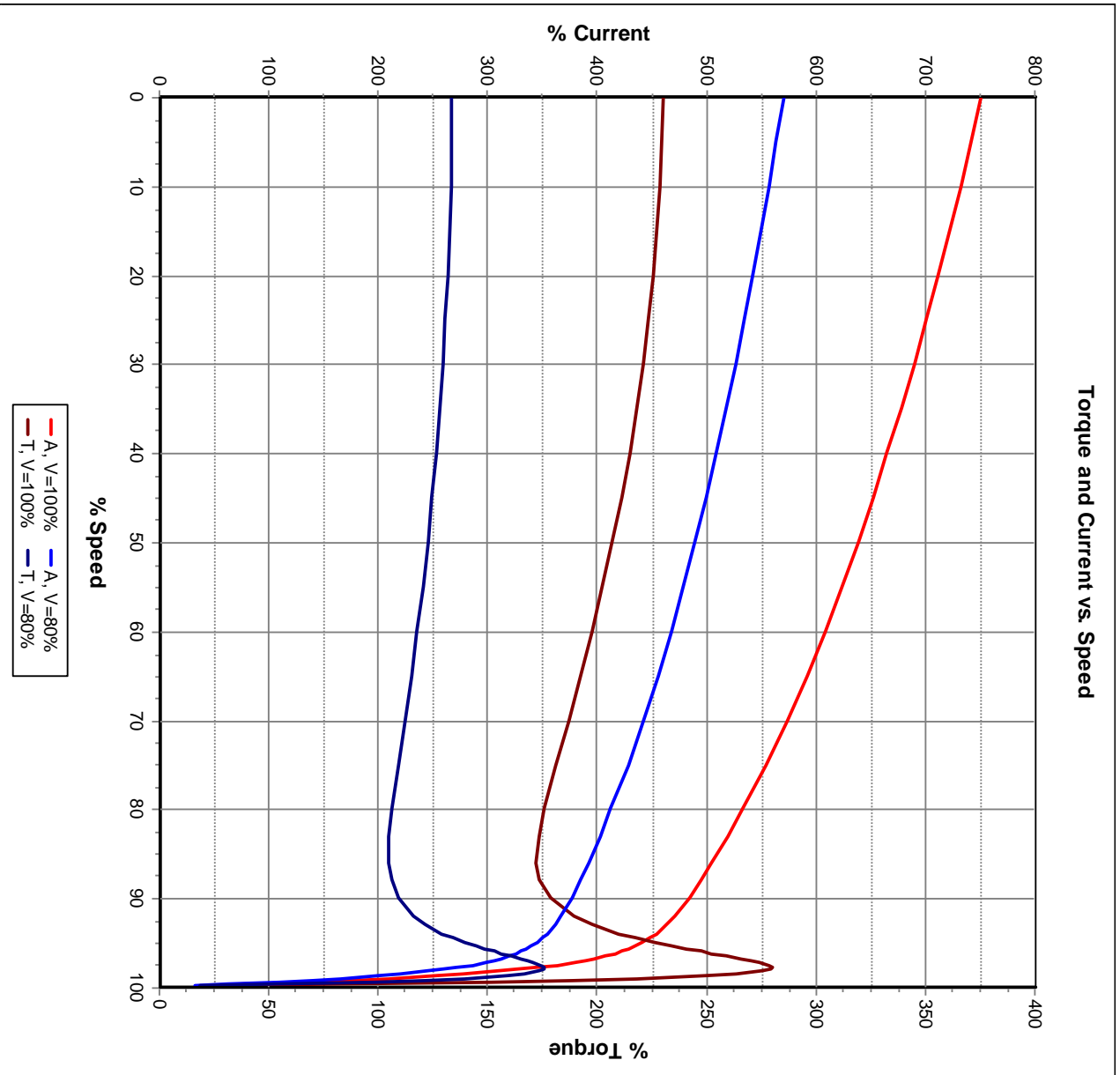


ABB Oy Motors & Generators		Date of Issue		Lang.	Rev. date	Our ref.	Pages
Department/Author MLA000/TISA		11.10.2018		En		3GZF021035-1237	2/3
Customer ref.		Saving Ident		Rev./Changed by			
		TMAA-ASUG9J-TISA34		A			

Motor type code: M3BN 587 MLB 6K

Rated output	300 HP	Power Factor	0.83
Voltage	460 V	Rated torque	1320 lb-ft
Frequency	60 Hz	Locked rotor Amps	750 %
Speed	1195 r/min	Locked rotor torque	230 %
Current	352 Amps	Breakdown torque	280 %

Torque and Current vs. Speed




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			TMAA-ASUG9J-TISA34	A	3/3	

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	1313 lb-ft
Speed	300 rpm
Current	356 Amps

Drive2	
Rated power	300 HP
Rated voltage	460 V
Nominal frequency	60,3 Hz
Type of connection	Delta
Rated torque	1314 lb-ft
Speed	1200 rpm
Current	387 Amps

Constant torque 300 – 1200rpm

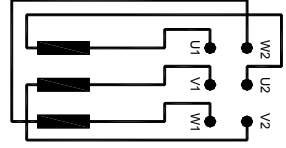
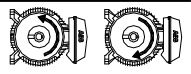

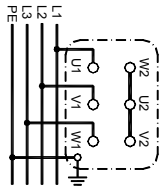
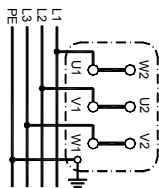

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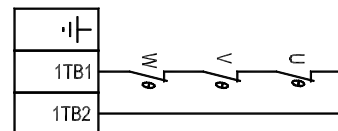
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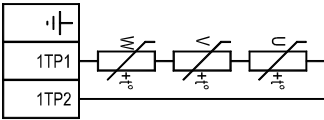
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<p>Connection Diagram</p>		<p>Diagram of connection Anschluss-Schema Schema de branchement</p> 		<p>Direction of rotation with phase sequence shown in picture Drehrichtung nach Schaltbild Direction de rotation avec branchement ci-dessus</p> 	
		<p>Direction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

