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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	Rev./Changed by A	Pages 1/3
Customer ref.	Saving Ident TMAA-ASUG9J-TISA35					

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 %	Power Factor	
	100	407	95,8	0,84	
	75	320	96,1	0,80	
	50	237	95,8	0,72	

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

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PERFORMANCE DATA OF MOTOR

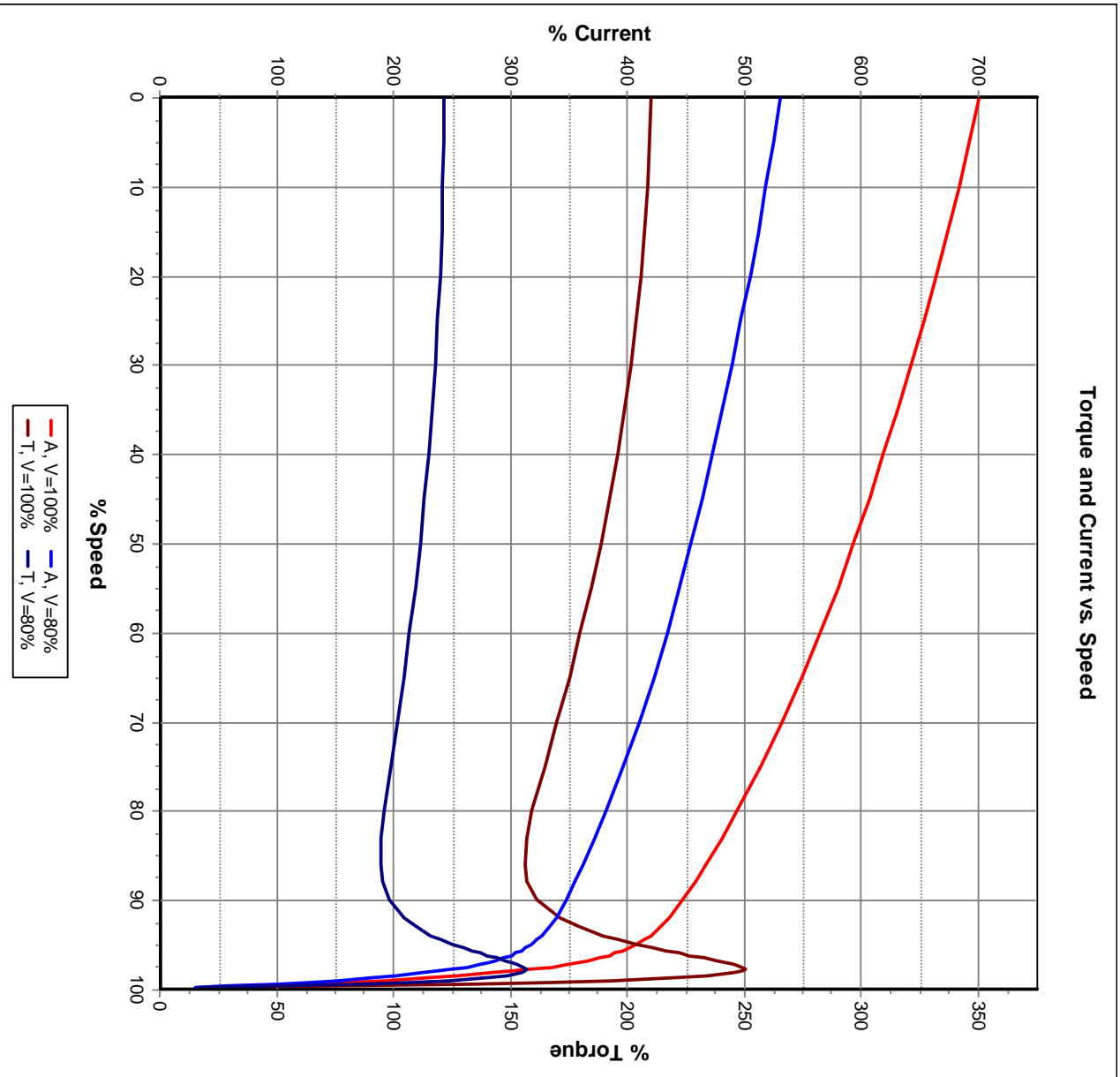


ABB Oy Motors & Generators		Date of Issue		Lang.	Rev. date	Our ref.	Rev./Changed by	Pages
Department/Author MLA000/TISA		11.10.2018		En		3GZF021035-1235		2/3
Customer ref.		Saving Ident		TMAA-ASUG9J-TISA35		A		

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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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


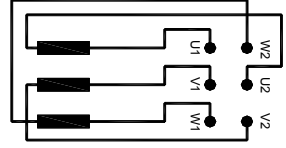
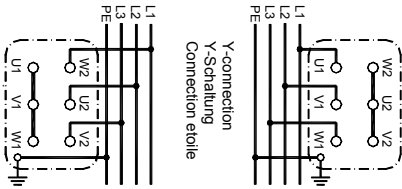
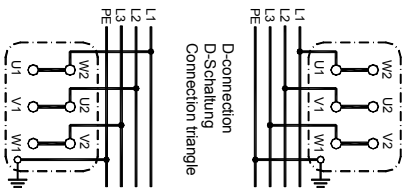


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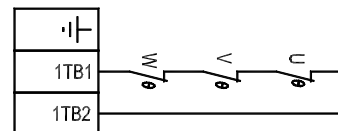
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<h2>Connection Diagram</h2>		Document No: 3GZF321100-1 E
Description: 3-PHASE SQUIRREL-CAGE MOTOR		
Unit: Motors Date: 21.09.2005	Issued by: M Prusi Approved by: Jari Raitila	Replaces: Replaced by:
Customer Reference: ABB Oy		
<div style="display: flex; justify-content: space-between;"> <div style="width: 30%;"> <p>Diagram of connection Anschluss-Schema Schema de branchement</p>  </div> <div style="width: 35%; border-top: 1px dashed black;"> <p>Connection of terminals Anschluss des Motors Branchement des bornes</p> <div style="display: flex; justify-content: space-around;"> <div style="width: 45%;"> <p>Y-connection Y-Schaltung Connection étoile</p>  </div> <div style="width: 45%;"> <p>D-connection D-Schaltung Connection triangle</p>  </div> </div> </div> </div> <div style="width: 30%;"> <p>Direction of rotation with phase sequence shown in picture Drehrichtung nach Schaltbild Direction de rotation avec branchement ci-dessus</p>  </div> <div style="width: 30%;"> <p>Direction of rotation with reversed phase sequence Drehrichtung umgekehrter Phasenfolge Direction de rotation avec séquence de phase renversé</p>  </div>		
Motor No Maschine Nr No du moteur ABB Oy, Motors		3GZF321100-1 E

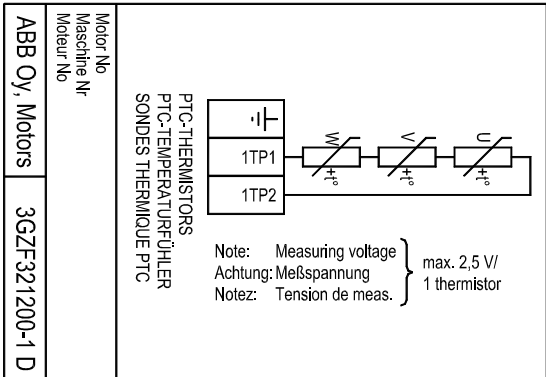
<h2 style="margin: 0;">Accessory Connection Diagram</h2>				Document No: 3GZF321200-35 B
Description: BIMETAL DETECTORS				
Unit:	Electrical Machines, LV Motors	Issued by:	K. Höglkvist	Replaces:
Date:	16.01.2002	Approved by:	M. Prusi	Replaced by:
ABB Oy		Customer Reference:		

Motor No Maschine Nr Moteur No ABB Oy, Electrical Machines LV Motors	Document No: 3GZF321200-35 B
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BIMETAL DETECTORS, TYPE NCC
1TB1...1TB2 BIMETALL-THERMOSCHALTER, TYP NCC
SONDES BIMETALLIQUES, TYPE NCC



<p>Accessory Connection Diagram</p>		<p>Document No: 3GZF321200-1 D</p>	
		<p>Description: PTC-THERMISTORS</p>	
<p>Unit: Motors</p>	<p>Issued by: K. Höglkvist</p>	<p>Replaces:</p>	
<p>Date: 30.11.2005</p>	<p>Approved by: M. Prusi</p>	<p>Replaced by:</p>	
<p>Customer Reference:</p>		<p>ABB Oy</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: 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:

