

BALDOR® • RELIANCE™

Customer information packet

ECR582506-PPN

M3BN 587MLB 6P B3 250HP

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

Department/Author MLA000/TISA	Date of Issue 11.10.2018	Lang. En	Rev. date	Our ref. 3GZFO21035-1240
Customer ref.		Saving Ident TMAA-ASUG9J-TISA33	Rev./Changed by A	Pages 1/3

Driven Motor:

Catalog Number Motor type code Motor product code Motor type Mounting designation Protected by enclosure Method of cooling Insulation Service factor Standards International efficiency classification (IEC 60034-30) Ambient temperature, max. Altitude, max.	ECR582506-PPN M3BN 587 MLB 6K 3GBN983420-ADKBA01 Squirrel cage Motor IM 1001 IP66 TEFC Class F (Shock Resistant) SF1.15 TEMP RISE CLASS F NEMA IE3 40 °C 3280 ft.a.s.l.																
Duty type Temp. rise Connection of stator winding Rated output Voltage Frequency Speed Current	Continuous Class B Delta 250 HP 460 V 60 Hz 1195 r/min 295 Amps																
Locked rotor Amps Locked rotor torque Breakdown torque No load current Rated torque	690 % Code H 200 % 250 % 104 Amps 1102 lb-ft																
Load characteristics	<table border="1"> <thead> <tr> <th>Load %</th> <th>Current Amps</th> <th>Efficiency %</th> <th>Power Factor</th> </tr> </thead> <tbody> <tr> <td>100</td> <td>295</td> <td>95,8</td> <td>0,83</td> </tr> <tr> <td>75</td> <td>229</td> <td>96,1</td> <td>0,80</td> </tr> <tr> <td>50</td> <td>171</td> <td>95,5</td> <td>0,72</td> </tr> </tbody> </table>	Load %	Current Amps	Efficiency %	Power Factor	100	295	95,8	0,83	75	229	96,1	0,80	50	171	95,5	0,72
Load %	Current Amps	Efficiency %	Power Factor														
100	295	95,8	0,83														
75	229	96,1	0,80														
50	171	95,5	0,72														

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

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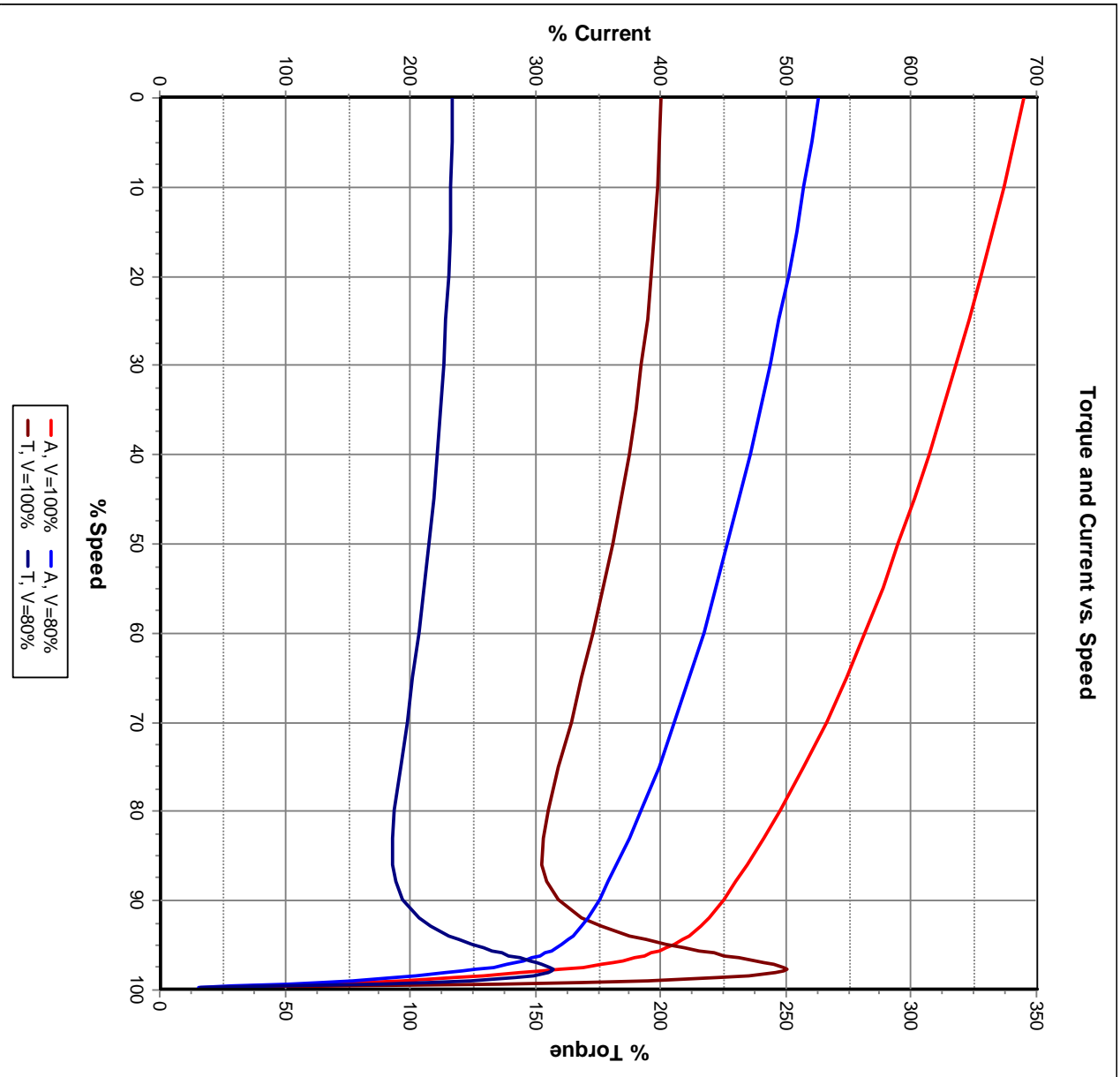
PERFORMANCE DATA OF MOTOR



ABB Oy Motors & Generators		Date of Issue		Lang.	Rev. date	Our ref.	Rev./Changed by	Pages
Department/Author MLA000/TISA		11.10.2018		En		3GZF021035-1240		2/3
Customer ref.		Saving Ident		TMAA-ASUG9J-TISA33		A		

Motor type code: M3BN 587 MLB 6K

Rated output	251 HP	Power Factor	0,83
Voltage	460 V	Rated torque	1 102 lb-ft
Frequency	60 Hz	Locked rotor Amps	690 %
Speed	1 195 r/min	Locked rotor torque	200 %
Current	295 Amps	Breakdown torque	250 %




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

Drive1	
Rated power	62 HP
Rated voltage	117 V
Nominal frequency	15,3 Hz
Type of connection	Delta
Rated torque	1092 lb-ft
Speed	300 rpm
Current	296 Amps

Drive2	
Rated power	250 HP
Rated voltage	460 V
Nominal frequency	60,4 Hz
Type of connection	Delta
Rated torque	1092 lb-ft
Speed	1200 rpm
Current	317 Amps

Constant torque 300 – 1200rpm


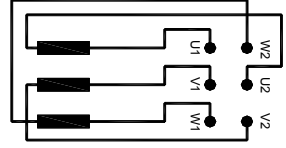
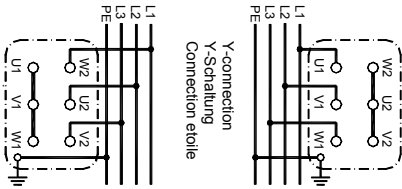
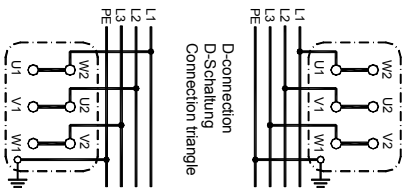

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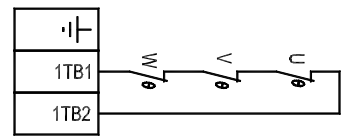
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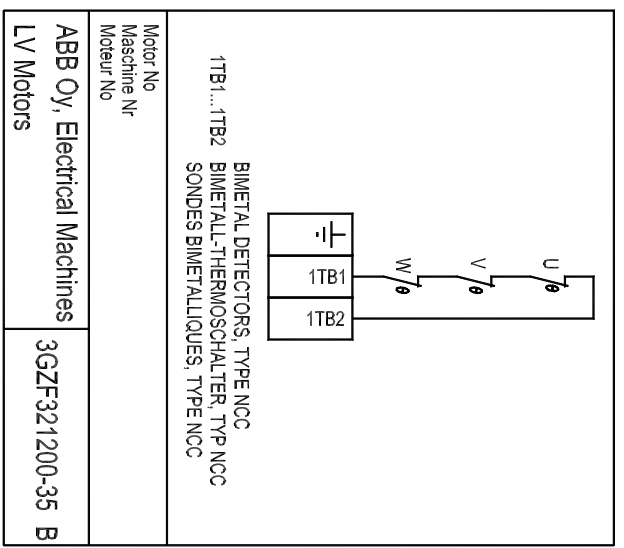
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<p>Connection Diagram</p>		<p>Diagram of connection Anschluss-Schema Schema de branchement</p> 	
		<p>Direction of rotation with phase sequence shown in picture Drehrichtung nach Schaltbild Direction de rotation avec branchement ci-dessus</p> 	
<p>Description: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

<h2>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>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>Motor No Maschine Nr Moteur No</p>	<p>PTC-THERMISTORS PTC-TEMPERATURFÜHLER SONDES THERMIQUE PTC</p>
<p>ABB Oy, Motors</p>	<p>3GZF321200-1 D</p>

Note: Measuring voltage } max. 2,5 V/
 Achtung: Meßspannung } 1 thermistor
 Notez: Tension de meas. }

<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:</p>		<p>ABB Oy</p>	

Additional Information:

