


# BALDOR® • RELIANCE

## Product Information Packet

# ECR583506-PPN

M3BN 587MLB 6P B4 350HP

Specs			
Frame:	586/7		
Motor Standards:	NEMA		
Starting Method:	Full Voltage		

<b>ABB Oy</b> <b>Motors &amp; Generators</b>		Classifying code or document type <b>PERFORMANCE DATA OF MOTOR</b>			
Department/Author MLA000/TISA	Date of issue 11.10.2018	Lang. EN	Rev. date 3GZF021035-1235	Our ref. 3GZF021035-1235	
Customer ref.			Saving Ident TMAA-ASUG9J-TISA35	Rev./Changed by A	Pages 1/3

**Driven Motor:**

Catalog Number	<b>ECR583506-PPN</b>			
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 %			
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%

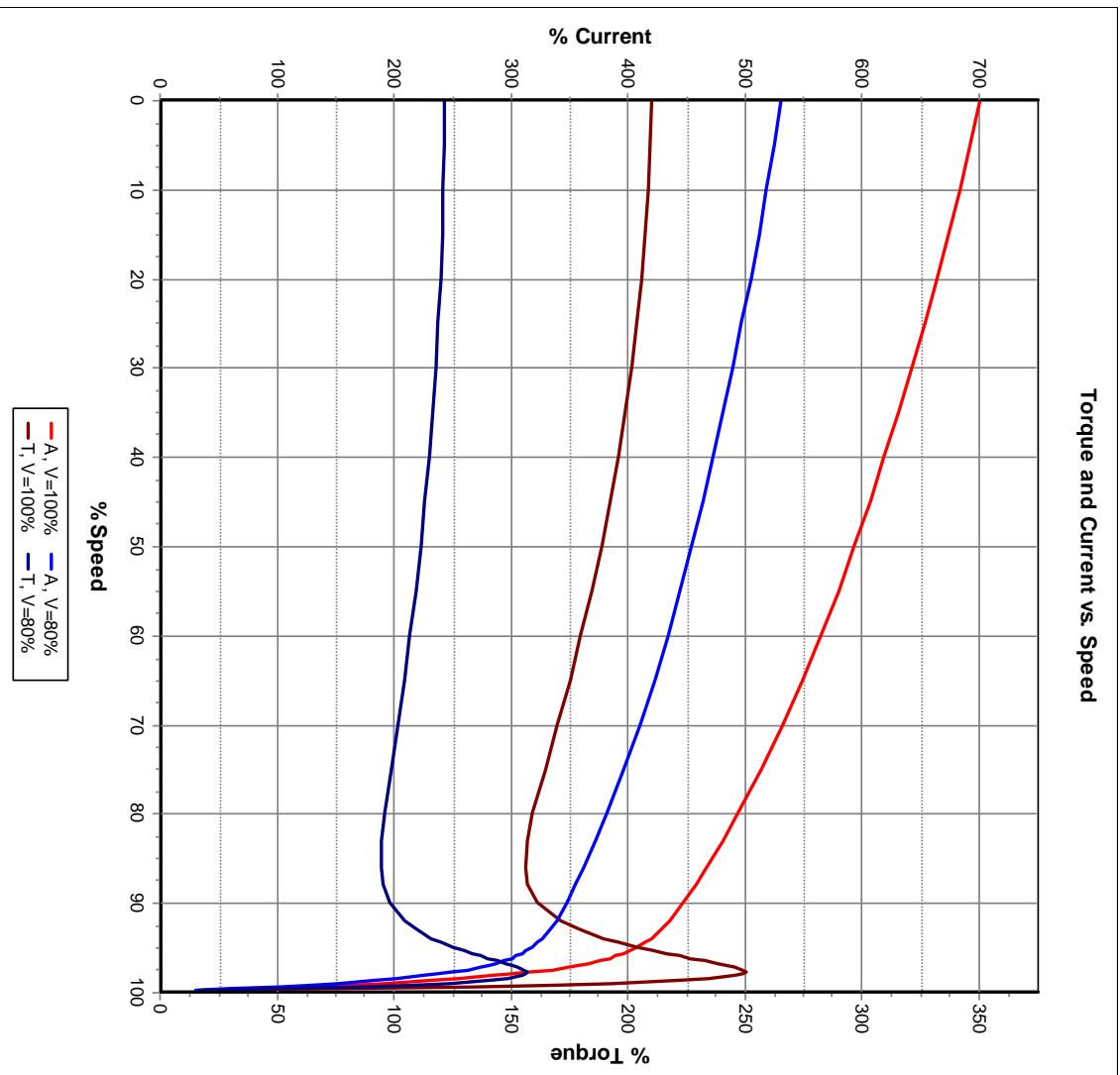
Motors & Generators Visiting Address  
Strömbergin puistie 5 A  
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			Pages 2/3

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 %




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

<b>Drive1</b>	
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

<b>Drive2</b>	
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: <b>3GZF321100-1 E</b>
Description: <b>3-PHASE SQUIRREL-CAGE MOTOR</b>		
Unit: <b>Motors</b> Date: <b>21.09.2005</b>	Issued by: <b>M Prusi</b> Approved by: <b>Jari Raittila</b>	Replaces: Replaced by:
Customer Reference: <b>ABB Oy</b>		

**Diagram of connection**  
Anschluss-Schema  
Schéma de branchement

**Connection of terminals**  
Anschluss des Motors  
Branchement des bornes

**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 inversée

Motor No Machine Nr No du moteur <b>ABB Oy, Motors</b>	<b>3GZF321100-1 E</b>
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<b>Accessory Connection Diagram</b>		Document No: 3GZF321200-35 B	
Description: BIMETAL DETECTORS			
Unit: Electrical Machines, LV Motors	Issued by: K.Högkvist	Replaces:	
Date: 16.01.2002	Approved by: M.Prusi	Replaced by:	
Customer Reference: <b>ABB Oy</b>		<b>ABB</b>	

<p>Motor No Maschine Nr Motor No</p> <p><b>ABB Oy, Electrical Machines</b></p> <p><b>LV Motors</b></p>	<p>3GZF321200-35 B</p>
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BIMETAL DETECTORS, TYPE NCC  
1TB1...1TB2 BIMETALL-THERMOSCHALTER, TYP NCC  
SONDES BIMETALLIQUES, TYPE NCC

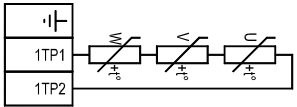
<b>Accessory Connection Diagram</b>		Document No: 3GZF321200-1 D
Description: PTC-THERMISTORS		
Unit: Motors	Issued by: K. Höglkvist	Replaces:
Date: 30.11.2005	Approved by: M. Prusi	Replaced by:
Customer Reference: <b>ABB Oy</b>		

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



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

