


# BALDOR® • RELIANCE

## Product Information Packet

# ECR583504-PPN

M3BN 587MLA 4P B3 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 3GZF021035-1239	Our ref. 3GZF021035-1239	Pages 1/3
Customer ref.			Saving Ident TMAA-ASUG9J-TISA29	Rev./Changed by A	

**Driven Motor:**

Catalog Number	<b>ECR583504-PPN</b>				
Motor type code	M3BN 587 MLA 4K				
Motor product code	3GBN982410-ADKBA02				
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 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	350 HP				
Voltage	460 V				
Frequency	60 Hz				
Speed	1792 r/min				
Current	396 Amps				
Locked rotor Amps	780 %		Code H		
Locked rotor torque	240 %				
Breakdown torque	300 %				
No load current	131 Amps				
Rated torque	1025 lb-ft				
Load characteristics	Load %	Current Amps	Efficiency %	Power Factor	
	100	396	96,2	0,86	
	75	311	96,4	0,82	
	50	231	96,0	0,74	


Typical calculated values to NEMA. -  
-NEMA Nominal Efficiency 96,2%

Motors & Generators Visiting Address  
Strömbergin puistie 5 A  
VAASA  
FINLAND

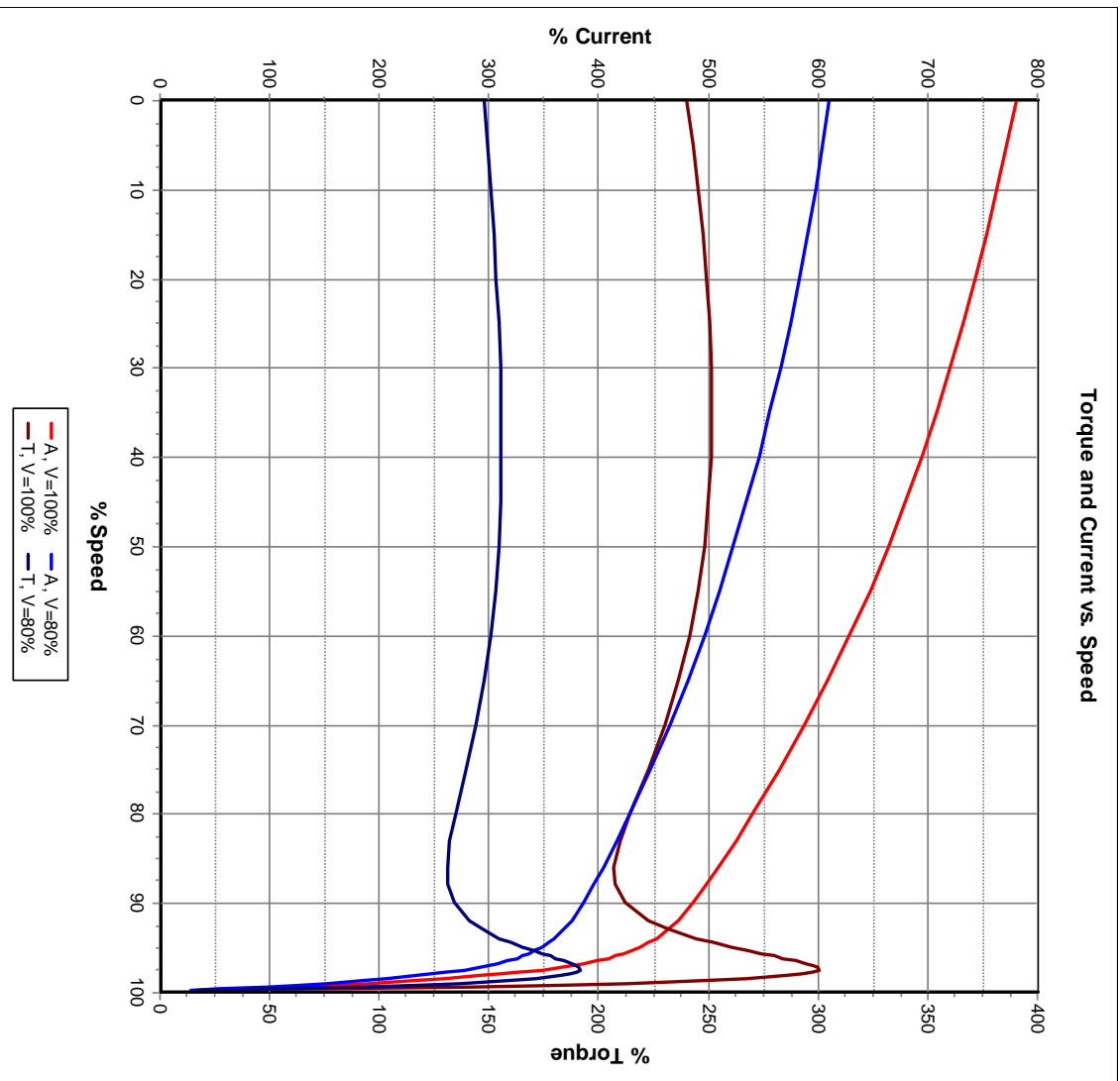
Postal Address  
P.O.Box 633  
FI-65101 VAASA  
FINLAND

**ABB Oy**

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Department/Author	MLA000/TISA	Date of issue	11.10.2018	Lang	EN	Rev. date		Our ref.	3GZF021035-1239	Rev./Changed by		Pages	2/3
Customer ref.				Saving Ident	TMAA-ASUG9J-TISA29	A							

Motor type code: M3BN 587 MLA 4K			
Rated output	350 HP	Power Factor	0,86
Voltage	460 V	Rated torque	1025 lb-ft
Frequency	60 Hz	Locked rotor Amps	780 %
Speed	1792 r/min	Locked rotor torque	240 %
Current	396 Amps	Breakdown torque	300 %




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PWM  
Switch. freq. 3KHz  
FWP 460VD 60Hz

<b>Drive1</b>	
Rated power	87 HP
Rated voltage	117 V
Nominal frequency	15.3 Hz
Type of connection	Delta
Rated torque	1017 lb-ft
Speed	450 rpm
Current	394 Amps

<b>Drive2</b>	
Rated power	350 HP
Rated voltage	460 V
Nominal frequency	60.4 Hz
Type of connection	Delta
Rated torque	1020 lb-ft
Speed	1800 rpm
Current	434 Amps

Constant torque 450 – 1800rpm

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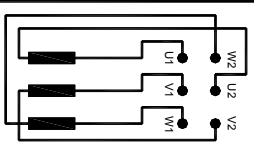
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<h2 style="margin: 0;">Connection Diagram</h2>		Document No: <b>3GZF321100-1 E</b>
Description: <b>3-PHASE SQUIRREL-CAGE MOTOR</b>		
Unit: <b>Motors</b> Date: <b>21.09.2005</b>	Issued by: <b>M Prusi</b> Approved by: <b>Jari Raittila</b>	Replaces: Replaced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

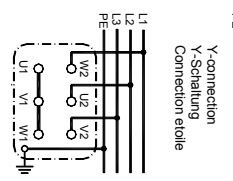
  

**Diagram of connection**  
 Anschluss-Schema  
 Schema de branchement

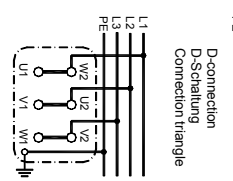


**Connection of terminals**  
 Anschluss des Motors  
 Branchement des bornes


**Y-connection**  
 Y-Schaltung  
 Connection étoile




**D-connection**  
 D-Schaltung  
 Connection triangle



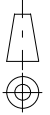
**Direction of rotation with phase sequence shown in picture**  
 Drehrichtung nach Schaltbild  
 Direction de rotation avec branchement ci-dessus



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



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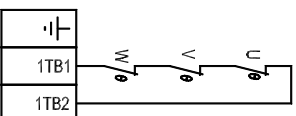
<b>Accessory Connection Diagram</b>				Document No: 3GZF321200-35 B
Description: BIMETAL DETECTORS				
Unit: Electrical Machines, LV Motors	Issued by: K.Högkvist	Replaces:		
Date: 16.01.2002	Approved by: M.Prusi	Replaced by:		
<b>ABB Oy</b>		Customer Reference:		<b>ABB</b>


  

<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



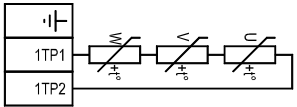
<b>Accessory Connection Diagram</b>		Document No: 3GZF321200-1 D
Description: PTC-THERMISTORS		
Unit: Motors	Issued by: K. Höglkvist	Replaces:
Date: 30.11.2005	Approved by: M. Prusi	Replaced by:
Customer Reference: <b>ABB Oy</b>		

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



Note: Measuring voltage  
Achtung: Meßspannung  
Notez: Tension de meas.

} max. 2,5 V/  
1 thermistor

