

BALDOR® • RELIANCE


Product Information Packet

ECR585006-PPN

M3BN 587MLB 6P 500HP

Specs			
Frame:	355		
Output @ Frequency:	500.00 KW @ 60 HZ		
Synchronous Speed @ Frequency:	1200 RPM @ 60 HZ		
Voltage @ Frequency:	460 V @ 60 HZ		
Auxillary Box:	D-End Top		
Current @ Voltage:	603.00 A @ 460 V		
Duty Rating:	S1		
Insulation Class:	F		
IP Rating:	IP66		
Speed Code:	Single Speed		

Motor Standards:	IEC		
Starting Method:	Full Voltage		

ABB Oy Motors & Generators		Classifying code or document type PERFORMANCE DATA OF MOTOR			
Department/Author MLA000/TISA	Date of issue 11.3.2018	Lang. EN	Rev. date TMAA-ASUG9J-TISA22	Our ref. TMAA-ASUG9J-TISA22	Pages 1/3
Customer ref.			Saving Ident TMAA-ASUG9J-TISA22	Rev./Changed by A	

Driven Motor:

Catalog Number	ECR585006-PPN				
Motor type code	M3BN 587 MLB 6K				
Motor product code	3GBN983420-ADKBA04				
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	500 HP				
Voltage	460 V				
Frequency	60 Hz				
Speed	1194 r/min				
Current	603 Amps				
Locked rotor Amps	720 %		Code H		
Locked rotor torque	220 %				
Breakdown torque	250 %				
No load current	229 Amps				
Rated torque	2200 lb-ft				
Load characteristics	Load %	Current Amps	Efficiency %	Power Factor	
	100	603	95,8	0,81	
	75	474	96,2	0,77	
	50	359	95,9	0,68	


Typical calculated values to NEMA. –

Motors & Generators Visiting Address
Strömbergin puistitie 5 A
VAASA
FINLAND

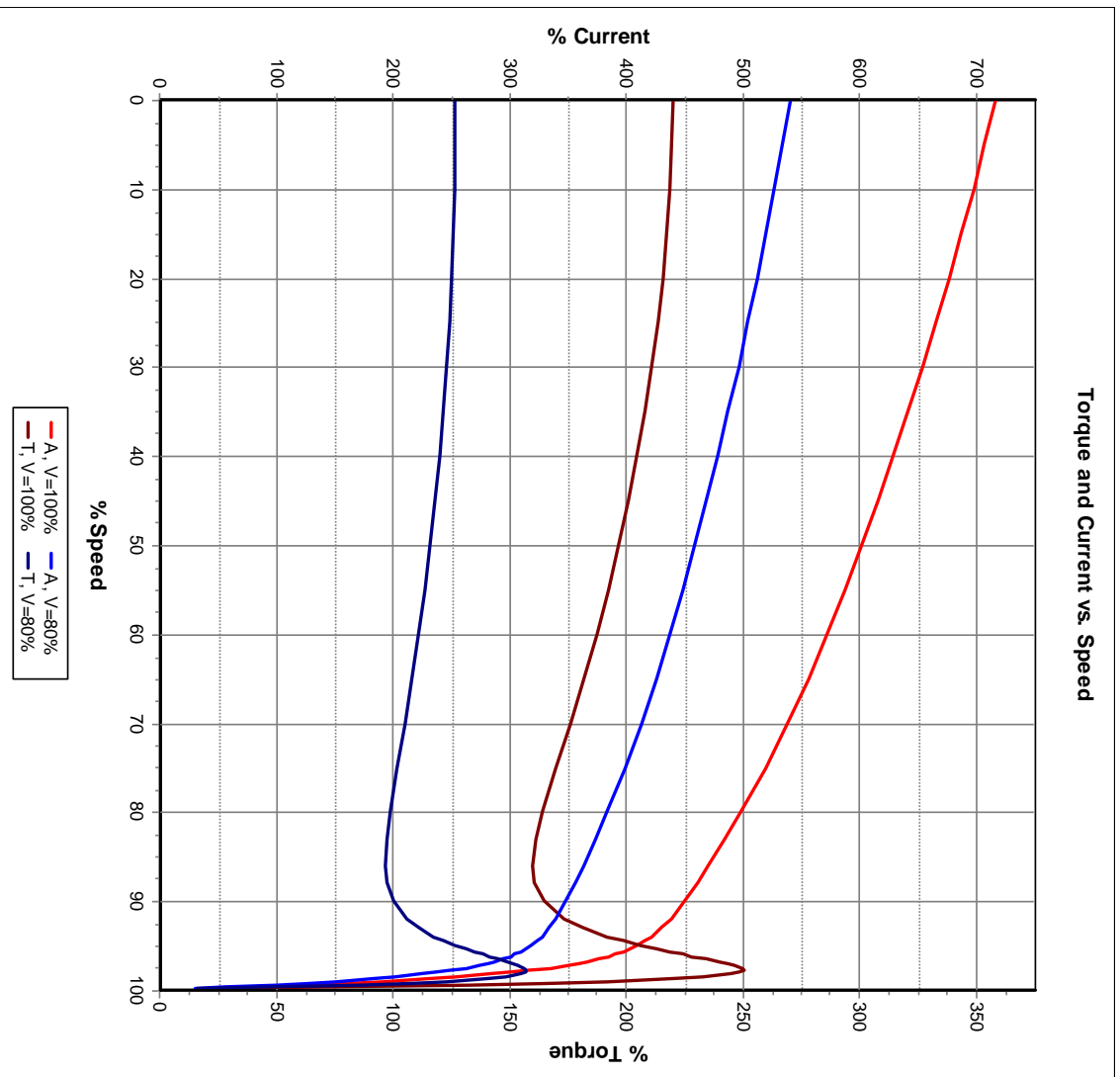
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Customer ref.				Rev. date		Rev./Changed by	TMAA-ASUG9J-TISA22 A
				Saving Ident		Pages	2/3

Motor type code: M3BN 587 MLB 6K			
Rated output	500 HP	Power Factor	0,81
Voltage	460 V	Rated torque	2200 lb-ft
Frequency	60 Hz	Locked rotor Amps	720 %
Speed	1194 r/min	Locked rotor torque	220 %
Current	603 Amps	Breakdown torque	250 %




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

Drive1	
Rated power	125 HP
Rated voltage	117 V
Nominal frequency	15.3 Hz
Type of connection	Delta
Rated torque	2182 lb-ft
Speed	300 rpm
Current	603 Amps

Drive2	
Rated power	500 HP
Rated voltage	460 V
Nominal frequency	60.4 Hz
Type of connection	Delta
Rated torque	2188 lb-ft
Speed	1200 rpm
Current	652 Amps

Constant torque 300 – 1200rpm

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<h2 style="margin: 0;">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 Raittila	Replaces: Replaced by:
Customer Reference: ABB Oy		

Diagram of connection
 Anschluss-Schema
 Schema 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 sequence de phase reversee

Motor No Machine Nr No du moteur ABB Oy, Motors	3GZF321100-1 E
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Accessory Connection Diagram		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:	
Customer Reference: ABB Oy		ABB	

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

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:	ABB

Motor No Maschine Nr Moteur No ABB Oy, Motors	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

