

BALDOR® • RELIANCE


Product Information Packet

ECR584006-PPN

M3BN 587MLB 6P B3 400HP

Specs			
Frame:	58		
Output @ Frequency:	450.00 KW @ 60 HZ		
Synchronous Speed @ Frequency:	1200 RPM @ 60 HZ		
Voltage @ Frequency:	460 V @ 60 HZ		
	575 V @ 60 HZ		
Duty Rating:	S1		
Insulation Class:	F		
IP Rating:	IP55		
Speed Code:	Single Speed		
Motor Standards:	NEMA		

Starting Method:	Full Voltage		
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ABB Oy Motors & Generators		Classifying code or document type PERFORMANCE DATA OF MOTOR			
Department/Author MLA000/TISA	Date of issue 11.10.2018	Lang. EN	Rev. date 3GZF021035-1251	Our ref. 3GZF021035-1251	Pages 1/3
Customer ref.		Saving Ident TMAA-ASUG9J-TISA36	Rev./Changed by A		

Driven Motor:

Catalog Number	ECR584006-PPN
Motor type code	M3BN 587 MLB 6G
Motor product code	3GBN983420-ADGBA01
Motor type	Squirrel cage Motor
Mounting designation	IM1001 (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	400 HP
Voltage	460 V
Frequency	60 Hz
Speed	1192 r/min
Current	465 Amps

Locked rotor Amps	770 %	Code J
Locked rotor torque	240 %	
Breakdown torque	260 %	
No load current	160 Amps	
Rated torque	1763 lb-ft	

Load characteristics	Load %	Current Amps	Efficiency %	Power Factor
	100	465	95.0	0.84
	75	365	95.0	0.81
	50	272	94.4	0.73

Typical calculated values to NEMA. -
-NEMA Nominal Efficiency 95.0%

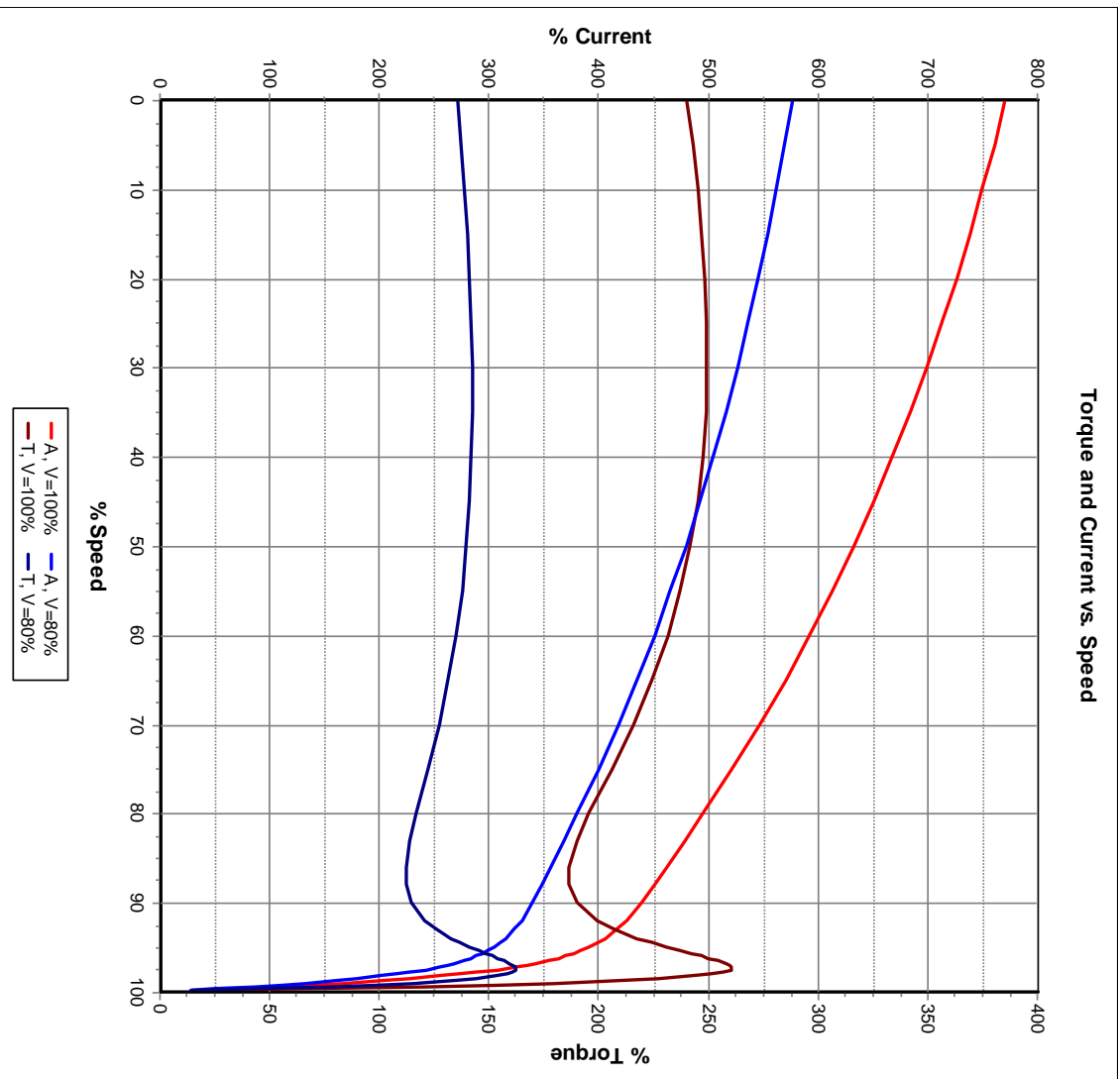
Motors & Generators Visiting Address
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			Pages 2/3

Motor type code: M3BN 587 MLB 6G	
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PWM
Switch. freq. 3KHz
FWP 460V/D 60Hz
VSD-duty: Temp. rise class F

Drive1	
Rated power	100 HP
Rated voltage	118 V
Nominal frequency	15,4 Hz
Type of connection	Delta
Rated torque	1760 lb-ft
Speed	300 rpm
Current	471 Amps

Drive2	
Rated power	400 HP
Rated voltage	460 V
Nominal frequency	60,5 Hz
Type of connection	Delta
Rated torque	1755 lb-ft
Speed	1200 rpm
Current	516 Amps

Constant torque 300 – 1200rpm

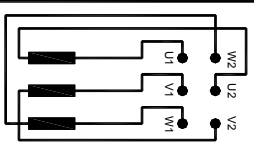
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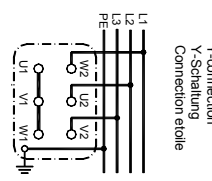
<h2 style="margin: 0;">Connection Diagram</h2>		Document No: 3GZF321100-1 E
Description: 3-PHASE SQUIRREL-CAGE MOTOR		
Unit: Motors Date: 21.09.2005	Issued by: M Prusi Approved by: Jari Raittila	Replaces: Replaced by:
Customer Reference: ABB Oy		

Diagram of connection
 Anschluss-Schema
 Schema de branchement

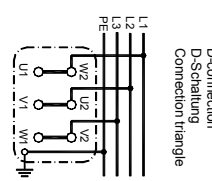


Connection of terminals
 Anschluss des Motors
 Branchement des bornes


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 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.Högkvist	Replaces:	
Date: 16.01.2002	Approved by: M.Prušič	Replaced by:	
Customer Reference: ABB Oy		ABB	

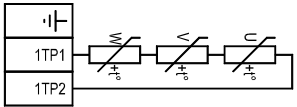
<p>Motor No Maschine Nr Motor No</p> <p>ABB Oy, Electrical Machines</p> <p>LV Motors</p>	<p>3GZF321200-35 B</p>
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BIMETAL DETECTORS, TYPE NCC
1TB1...1TB2 BIMETALL-THERMOSCHALTER, TYP NCC
SONDES BIMETALLIQUES, TYPE NCC

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:
Customer Reference: ABB Oy		

<p>Motor No Maschine Nr Moteur No ABB Oy, Motors</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.

