

BALDOR • RELIANCE


Product Information Packet

ECR584506-PPN

M3BN 587MLB 6P 450HP

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 11.3.2018	Lang. EN	Rev. date TMAA-ASUG9J-TISA21		
Customer ref.			Saving Ident TMAA-ASUG9J-TISA21	Rev./Changed by A	Pages 1/3

Driven Motor:

Catalog Number	ECR584506-PPN			
Motor type code	M3BN 587 MLB 6G			
Motor product code	3GBN983420-ADGBA02			
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			
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	450 HP			
Voltage	460 V			
Frequency	60 Hz			
Speed	1193 r/min			
Current	530 Amps			
Locked rotor Amps	770 %			
Locked rotor torque	260 %			
Breakdown torque	280 %			
No load current	200 Amps			
Rated torque	1983 lb-ft			
Load characteristics				
	Load %	Current Amps	Efficiency %	Power Factor
	100	530	95.0	0.83
	75	421	94.9	0.79
	50	320	94.0	0.70

Typical calculated values to NEMA. -

Motors & Generators Visiting Address
Strömbergin puistitie 5 A
VAASA
FINLAND

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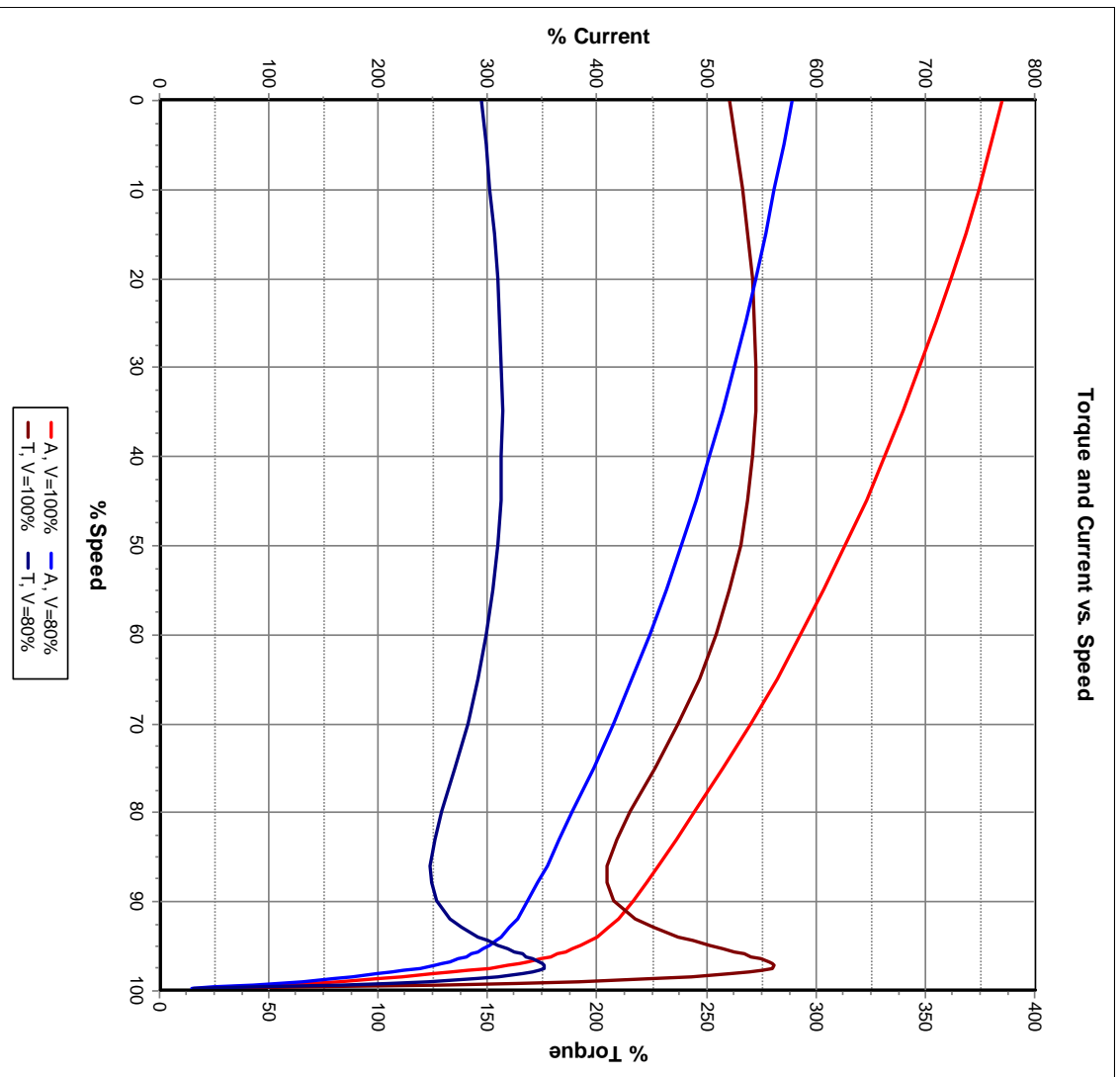
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Classifying code or document type
PERFORMANCE DATA OF MOTOR




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Motors & Generators		Customer ref.		Saving Ident TMAA-ASUG9J-TISA21					

Motor type code: M3BN 587 MLB 6G			
Rated output	450 HP	Power Factor	0.83
Voltage	460 V	Rated torque	1983 lb-ft
Frequency	60 Hz	Locked rotor Amps	770 %
Speed	1193 r/min	Locked rotor torque	260 %
Current	530 Amps	Breakdown torque	280 %



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

Drive1	
Rated power	112,5 HP
Rated voltage	118 V
Nominal frequency	15,4 Hz
Type of connection	Delta
Rated torque	1971 lb-ft
Speed	300 rpm
Current	533 Amps

Drive2	
Rated power	450 HP
Rated voltage	460 V
Nominal frequency	60,5 Hz
Type of connection	Delta
Rated torque	1971 lb-ft
Speed	1200 rpm
Current	585 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. 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 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

PTC-THERMISTORS
 PTC-TEMPERATURFÜHLER
 SONDES THERMIQUE PTC

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

Motor No	
Maschine Nr	
Moteur No	
ABB Oy, Motors	3GZF321200-1 D

