


BALDOR® • RELIANCE

Product Information Packet

ECR584504-PPN

M3BN 587MLA 4P 450HP

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

ABB Oy Motors & Generators		Classifying code or document type PERFORMANCE DATA OF MOTOR			
Department/Author MLA000/TISA	Date of issue 11.10.2018	Lang. En	Rev. date 3GZF021035-1236	Our ref. 3GZF021035-1236	Pages 1/3
Customer ref.			Saving Ident TMAA-ASUG9J-TISA31	Rev./Changed by A	

Driven Motor:


Catalog Number	ECR584504-PPN			
Motor type code	M3BN 587 MLA 4K			
Motor product code	3GBN982410-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 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	450 HP			
Voltage	460 V			
Frequency	60 Hz			
Speed	1791 r/min			
Current	519 Amps			
Locked rotor Amps	800 %	Code K		
Locked rotor torque	290 %			
Breakdown torque	300 %			
No load current	183 Amps			
Rated torque	1321 lb-ft			
Load characteristics				
	Load %	Current Amps	Efficiency %	Power Factor
	100	519	96.2	0.84
	75	405	96.5	0.81
	50	306	95.8	0.72

Typical calculated values to NEMA. –
-NEMA Nominal Efficiency 96.2%

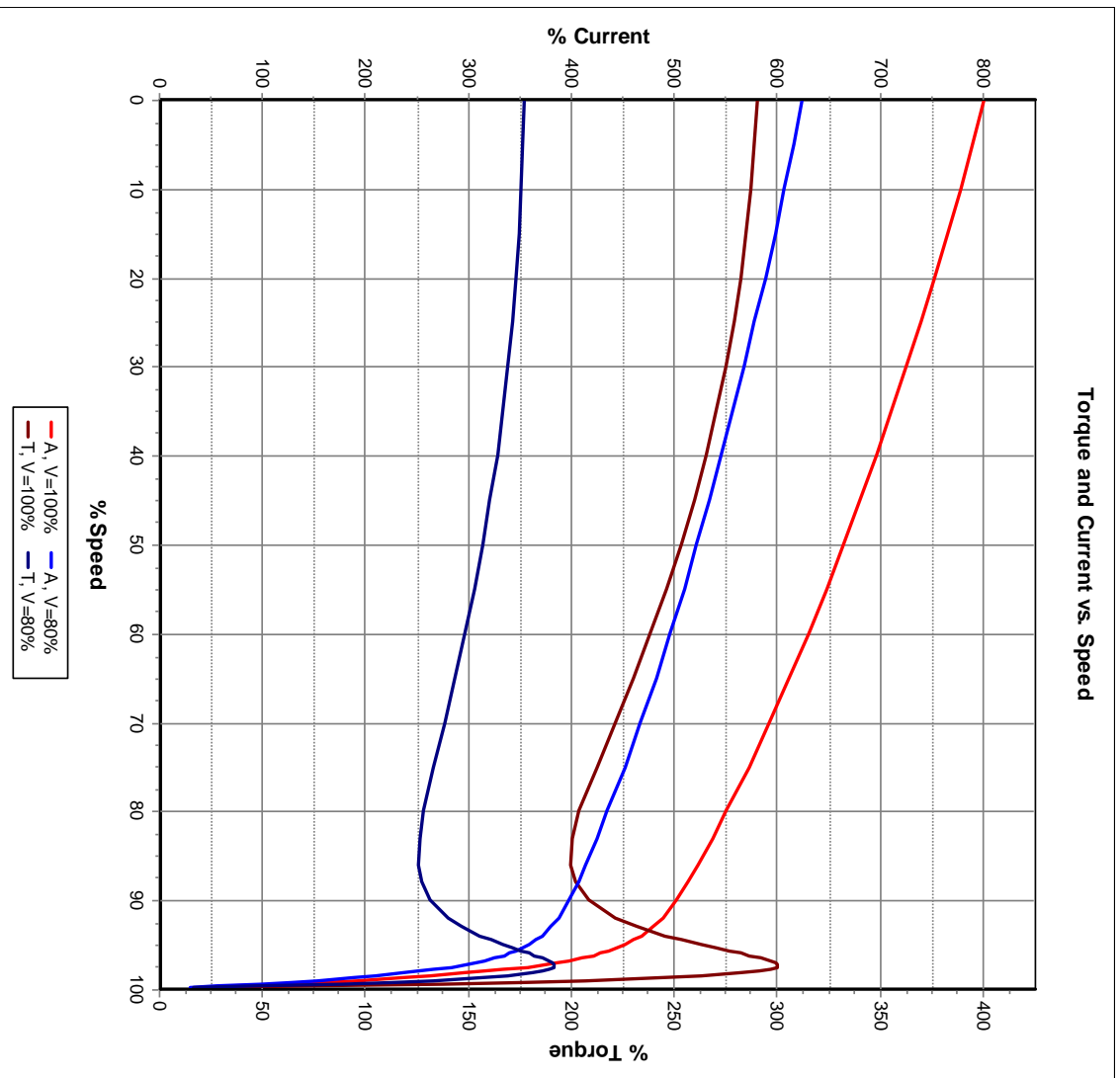
Motors & Generators Visiting Address
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				Saving Ident		Pages	2/3

Motor type code: M3BN 587 MLA 4K			
Rated output	450 HP	Power Factor	0.84
Voltage	460 V	Rated torque	1321 lb-ft
Frequency	60 Hz	Locked rotor Amps	800 %
Speed	1791 r/min	Locked rotor torque	290 %
Current	519 Amps	Breakdown torque	300 %




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

Drive1	
Rated power	113 HP
Rated voltage	117 V
Nominal frequency	15.3 Hz
Type of connection	Delta
Rated torque	1314 lb-ft
Speed	450 rpm
Current	519 Amps

Drive2	
Rated power	450 HP
Rated voltage	460 V
Nominal frequency	60.4 Hz
Type of connection	Delta
Rated torque	1314 lb-ft
Speed	1800 rpm
Current	565 Amps

Constant torque 450 – 1800rpm

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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	

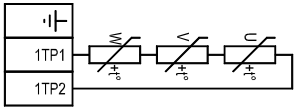
<p>Motor No Maschine Nr Motor No</p> <p>ABB Oy, Electrical Machines</p> <p>LV Motors</p>	<p>3GZF321200-35 B</p>
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BIMETAL DETECTORS, TYPE NCC
1TB1...1TB2 BIMETALL-THERMOSCHALTER, TYP NCC
SONDES BIMETALLIQUES, TYPE NCC

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:
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.

