

BALDOR • RELIANCE


Product Information Packet

ECR582508-PP

M3BN 587MLB 8P B3 250HP

Specs			
Frame:	58		
Output @ Frequency:	350.00 KW @ 60 HZ		
Synchronous Speed @ Frequency:	900 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	Date of Issue	Lang	Rev. date	Our ref.	
MLA000/TISA	11.10.2018	EN		TMAA-ASUG9J-TISA23	
Customer ref.			Saving Ident	Rev./Changed by	Pages
			TMAA-ASUG9J-TISA37	A	1/3

Driven Motor:

Motor type code	M3BN 587 MLB 8G			
Motor product code	3GBN984420-ADG (+209)			
Motor type	Squirrel cage Motor			
Mounting designation	IM 1001			
Protected by enclosure	TEFC			
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	250 HP			
Voltage	460 V			
Frequency	60 Hz			
Speed	894 r/min			
Current	312 Amps			
Locked rotor Amps	780 %			
Locked rotor torque	160 %			
Breakdown torque	280 %			
No load current	138 Amps			
Rated torque	1473 lb-ft			
Load characteristics				
	Load %	Current Amps	Efficiency %	Power Factor
	100	312	95.0	0.79
	75	249	95.4	0.74
	50	196	94.8	0.63

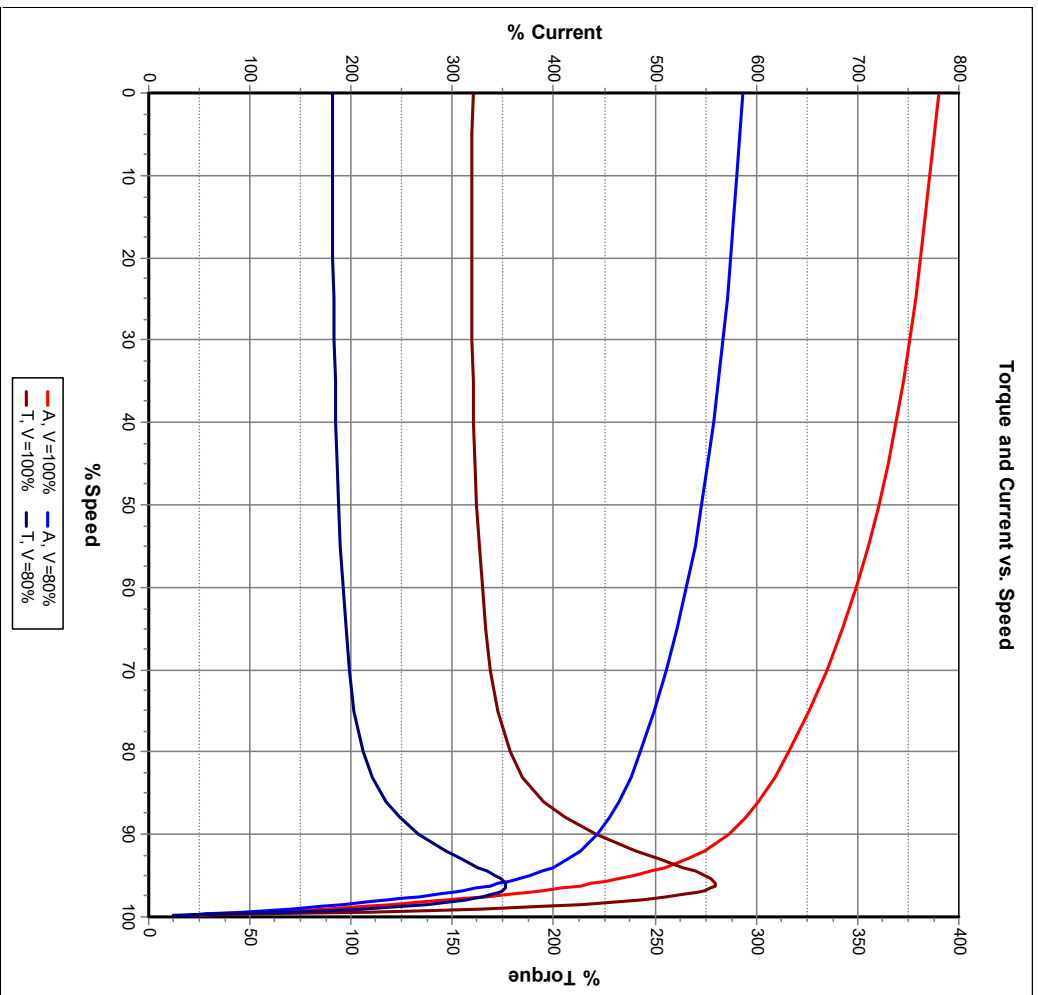
Typical calculated values to NEMA. --
NEMA Nominal Eff. 95.0%

<p>ABB OY</p> <p>Motors & Generators</p> <p>Visiting Address</p> <p>Srömsbergin puistote 5 A</p> <p>VAAASA</p> <p>FINLAND</p>	<p>ABB OY</p> <p>Postal Address</p> <p>P O Box 633</p> <p>FI-65101 VAAASA</p> <p>FINLAND</p>	<p>Telephone</p> <p>+358 10 222 000</p> <p>Telefax</p> <p>+358 10 224 7372</p>
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Motor type code: M3BN 587 MLB 8G

Rated output	251 HP	Power Factor	0.79
Voltage	460 V	Rated torque	1473 lb-ft
Frequency	60 Hz	Locked rotor Amps	780 %
Speed	894 r/min	Locked rotor torque	160 %
Current	312 Amps	Breakdown torque	280 %




Motors & Generators Visiting Address
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PWM
 Switch. freq. 3KHz
 FWP 460VD 60Hz
 VSD-Duty Temp. rise class F

Drive1 Rated power Rated voltage Nominal frequency Type of connection Rated torque Speed Current	62.5 HP 118 V 15.4 Hz Delta 1463 lb-ft 225 rpm 310 Amps
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Drive2 Rated power Rated voltage Nominal frequency Type of connection Rated torque Speed Current	250 HP 460 V 60.5 Hz Delta 1463 lb-ft 900 rpm 334 Amps
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Constant torque 225 – 900rpm

Motors & Generators Visiting Address Strömbergin puistote 5 A VAASA FINLAND	ABB OY Postal Address P O Box 633 FI-65101 VAASA FINLAND	Telephone +358 10 222 000	Telefax +358 10 224 7372
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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

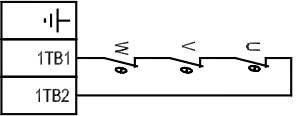
Direction of rotation with reversed phase sequence
 Drehrichtung mit umgekehrter Phasenfolge
 Direction de rotation avec sequence de phase reversee


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: Date:	Electrical Machines, LV Motors 16.01.2002	Issued by: Approved by:	K. Höglkvist M. Prusi	Replaces: Replaced by:
ABB Oy		Customer Reference:		

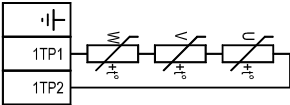
<p>Motor No Machine Nr Motor No</p> <p>ABB Oy, Electrical Machines LV Motors</p>	<p style="text-align: center;">3GZF321200-35 B</p>
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BIMETAL DETECTORS, TYPE NCC
1TB1...1TB2 BIMETALL-THERMOSCHALTER, TYP NCC
SONDES BIMETALLIQUES, TYPE NCC



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		

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

