

BALDOR • RELIANCE

Customer information packet
ECR582508-PP

M3BN 587MLB 8P B3 250HP

ABB Oy		Classifying code or document type	
Motors & Generators		PERFORMANCE DATA OF MOTOR	
Department/author MLA000/TISA	Date of issue 11.10.2018	Lang EN	Our ref TMAA-ASUG9J-TISA23
Customer ref. MLA000/TISA	Rev. date 11.10.2018	Rev./Changed by TMAA-ASUG9J-TISA37 A	Pages 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%

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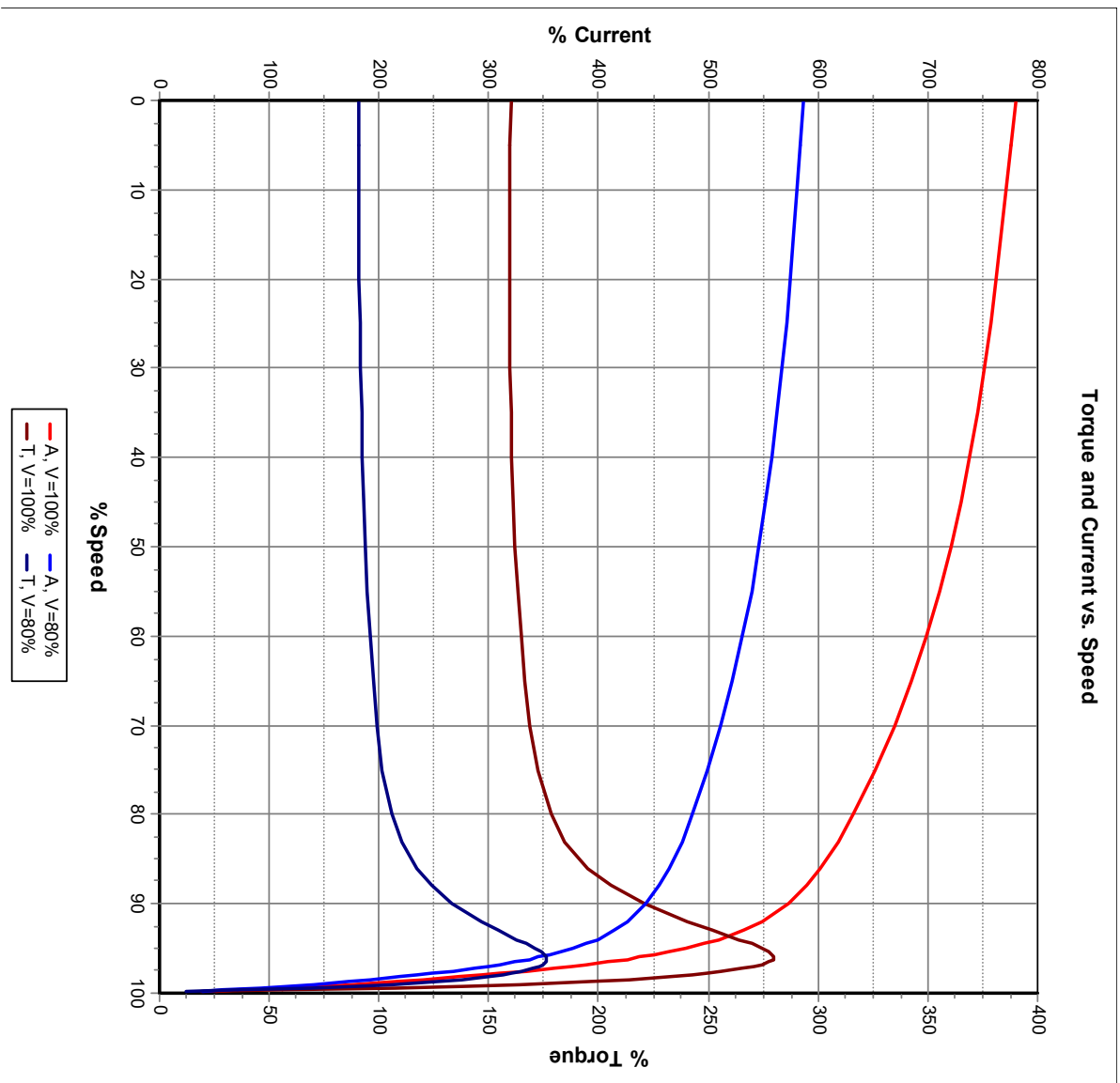
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PERFORMANCE DATA OF MOTOR



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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 %



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PWM
 Switch. freq. 3KHz
 FWP 460V/D 60Hz
 VSD-Duty Temp. rise class F

Drive1

Rated power	62.5 HP
Rated voltage	118 V
Nominal frequency	15.4 Hz
Type of connection	Delta
Rated torque	1463 lb-ft
Speed	225 rpm
Current	310 Amps

Drive2

Rated power	250 HP
Rated voltage	460 V
Nominal frequency	60.5 Hz
Type of connection	Delta
Rated torque	1463 lb-ft
Speed	900 rpm
Current	334 Amps

Constant torque 225 – 900rpm

ABB OY


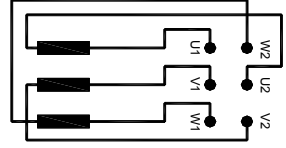
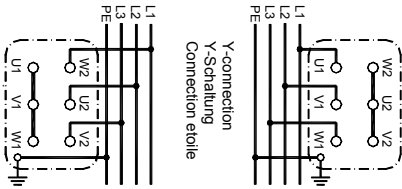
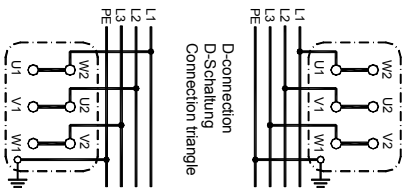




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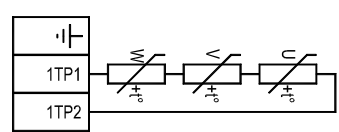
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<p>Diagram of connection Anschluss-Schema Schema de branchement</p> 		<p>Direction of rotation with phase sequence shown in picture Drehrichtung nach Schaltbild Direction de rotation avec branchement ci-dessus</p> 		<p>Diagram of connection Anschluss-Schema Schema de branchement</p> 		<p>Direction of rotation with phase sequence shown in picture Drehrichtung nach Schaltbild Direction de rotation avec branchement ci-dessus</p> 	
				<p>Connection of terminals Anschluss des Motors Branchement des bornes</p>  <p>Y-connection Y-Schaltung Connection étoile</p>		<p>Connection of terminals Anschluss des Motors Branchement des bornes</p>  <p>D-connection D-Schaltung Connection triangle</p>	
<p>Motor No Maschine Nr No du moteur</p> <p>ABB Oy, Motors</p>		<p>Motor No Maschine Nr No du moteur</p> <p>ABB Oy, Motors</p>		<p>Document No: 3GZF321100-1 E</p>		<p>Document No: 3GZF321100-1 E</p>	
<p>Description: 3-PHASE SQUIRREL-CAGE MOTOR</p>							
<p style="text-align: center;">Connection Diagram</p>							
<p>Unit: Motors</p>		<p>Issued by: M Prusi</p>		<p>Replaces:</p>			
<p>Date: 21.09.2005</p>		<p>Approved by: Jari Raitila</p>		<p>Replaced by:</p>			
<p>ABB Oy</p>		<p>Customer Reference:</p>		<p>ABB Oy</p>		<p>ABB Oy</p>	

<h2 style="margin: 0;">Accessory Connection Diagram</h2>				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:
ABB Oy		Customer Reference:		

<p style="margin: 0;"> BIMETAL DETECTORS, TYPE NCC 1TB1...1TB2 BIMETALL-THERMOSCHALTER, TYP NCC SONDES BIMETALLIQUES, TYPE NCC </p>	
Motor No Maschine Nr Moteur No	ABB Oy, Electrical Machines LV Motors
3GZF321200-35 B	3GZF321200-35 B

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	 <p>PTC-THERMISTORS PTC-TEMPERATURFÜHLER SONDES THERMIQUE PTC</p> <p>Note: Measuring voltage } max. 2,5 V/ Achtung: Meßspannung } 1 thermistor Notez: Tension de meas. }</p>
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<p>Dimension Print</p>		<p>Motor Type: M3BN 587ML_4.. B3, B6, B7, B8, V5, V6</p>		<p>Document No: 3GZF500098-175 A</p>	
<p>Description: SQUIRREL CAGE MOTOR, CABLE ENTRY LHS, SPECIAL SHAFT, SLOTTED FEET HOLES, DIMENSIONS IN INCHES, MOTOR SIZES 586/587.</p>					
<p>Unit: ABB Oy, Motors and Generators</p>		<p>Date: 31.Mar.2020</p>		<p>Issued by: R.Ketoja</p>	
<p>Customer Reference: ABB Oy</p>		<p>Approved by: A.Viik</p>		<p>Replaces: Replaced by:</p>	
<p>Additional Information:</p>					