

BALDOR® • RELIANCE™

Customer information packet

ECR583504-PPN

M3BN 587MLA 4P B3 350HP

ABB Oy**PERFORMANCE DATA OF MOTOR**

Department/Author MLA000/TISA	Date of Issue 11.10.2018	Lang. En	Rev. date	Our ref. 3GZFE021035-1239	Rev./Changed by A	Pages 1/3
Customer ref.	Saving Ident TMAA-ASUG9J-TISA29					

Driven Motor:

Catalog Number	ECR583504-PPN				
Motor type code	M3BN 587 MLA 4K				
Motor product code	3GBN982410-ADKBA02				
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	350 HP				
Voltage	460 V				
Frequency	60 Hz				
Speed	1792 r/min				
Current	396 Amps				
Locked rotor Amps	780 %				
Locked rotor torque	240 %				
Breakdown torque	300 %				
No load current	131 Amps				
Rated torque	1025 lb-ft				
Load characteristics	Load %	Current Amps	Efficiency %	Power Factor	
	100	396	96,2	0,86	
	75	311	96,4	0,82	
	50	231	96,0	0,74	

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

Motors & Generators Visiting Address
Stroinbergin puistotie 5 A
VAASA
FINLAND

Postal Address
P.O.Box 633
FI-65101 VAASA
FINLAND

ABB Oy

Telephone
+358 10 222 000

Telefax
+358 10 224 7372

PERFORMANCE DATA OF MOTOR

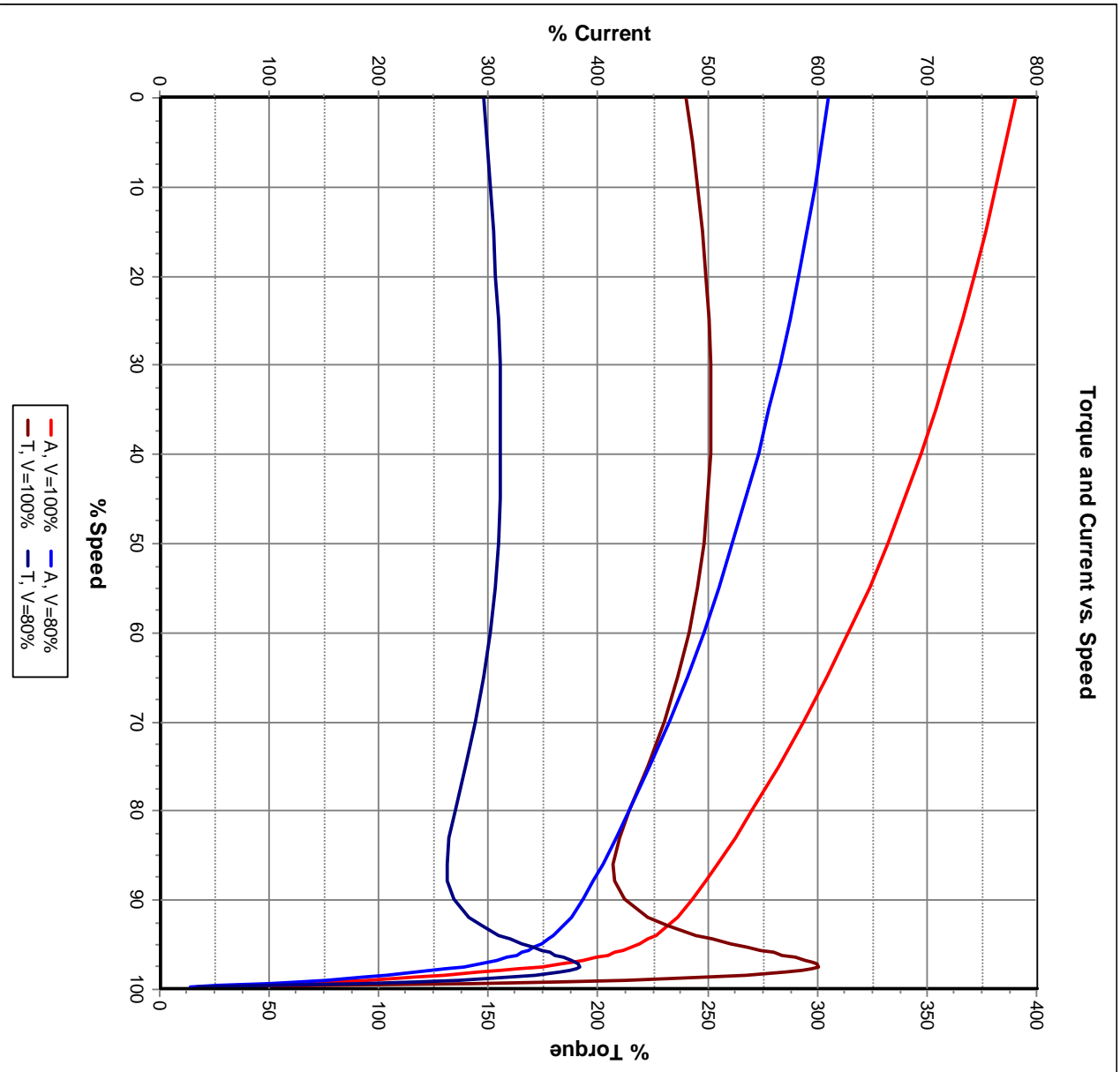


ABB Oy Motors & Generators		Date of Issue		Lang.	Rev. date	Our ref.	Rev./Changed by	Pages
Department/Author MLA000/TISA		11.10.2018		En		3GZF021035-1239		2/3
Customer ref.		Saving Ident		TMAA-ASUG9J-TISA29		A		

Motor type code: M3BN 587 MLA 4K

Rated output	350 HP	Power Factor	0,86
Voltage	460 V	Rated torque	1025 lb-ft
Frequency	60 Hz	Locked rotor Amps	780 %
Speed	1792 r/min	Locked rotor torque	240 %
Current	396 Amps	Breakdown torque	300 %

Torque and Current vs. Speed




Motors & Generators Visiting Address
Stroinbergin puistolle 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

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	
Customer ref.				Saving Ident	TMAA-ASUG9J-TISA29	Our ref.	3GZF021035-1239
				Rev./Changed by	A	Pages	3/3

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

Drive1	
Rated power	87 HP
Rated voltage	117 V
Nominal frequency	15,3 Hz
Type of connection	Delta
Rated torque	1017 lb-ft
Speed	450 rpm
Current	394 Amps

Drive2	
Rated power	350 HP
Rated voltage	460 V
Nominal frequency	60,4 Hz
Type of connection	Delta
Rated torque	1020 lb-ft
Speed	1800 rpm
Current	434 Amps

Constant torque 450 – 1800rpm

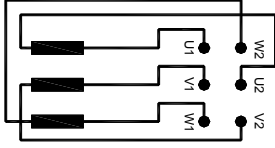
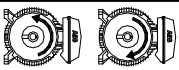
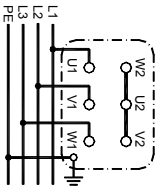
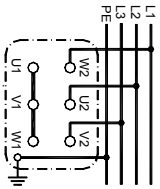

Motors & Generators Visiting Address
Stroinbergin puistotie 5 A
VAASA
FINLAND

Postal Address
P.O.Box 633
FI-65101 VAASA
FINLAND

ABB Oy


Telephone
+358 10 222 000

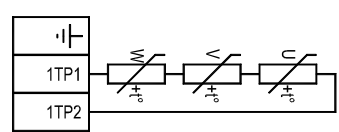
Telefax
+358 10 224 7372

<p>Connection Diagram</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>Description: 3-PHASE SQUIRREL-CAGE MOTOR</p>		<p>Connection of terminals Anschluss des Motors Branchement des bornes</p>  <p>Y-connection Y-Schaltung Connection étoile</p>  <p>D-connection D-Schaltung Connection triangle</p>	
<p>Unit: Motors</p> <p>Date: 21.09.2005</p>		<p>Motor No Maschine Nr No du moteur</p> <p>ABB Oy, Motors</p>	
<p>Issued by: M Prusi</p> <p>Approved by: Jari Raitila</p>		<p>Document No: 3GZF321100-1 E</p> 	
<p>Customer Reference:</p> <p>ABB Oy</p>		<p>Replaces:</p> <p>ABB</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	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:
ABB Oy	Customer Reference:	

<p>Motor No Maschine Nr Moteur No</p> <p>ABB Oy, Motors</p>	<div style="text-align: center;">  </div> <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>
--	--

