



Customer information packet

ECR583006-PPN

M3BN 587MLB 6P B3 300HP

ABB Oy
Motors & Generators

Classifying code or document type

PERFORMANCE DATA OF MOTOR

Department/Author	Date of Issue	Lang.	Rev. date	Our ref.	Pages
MLA000/TISA	11.10.2018	EN		3GZF021035-1237	
Customer ref.	Saving Ident			Rev./Changed by	
	TMAA-ASUG9J-TISA34			A	1/3

Driven Motor:

Catalog Number	ECR583006-PPN				
Motor type code	M3BN 587 MLB 6K				
Motor product code	3GBN983420-ADKBA02				
Motor type	Squirrel cage Motor				
Mounting designation	IM 1001				
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	300 HP				
Voltage	460 V				
Frequency	60 Hz				
Speed	1195 r/min				
Current	352 Amps				
Locked rotor Amps	750 % Code J				
Locked rotor torque	230 %				
Breakdown torque	280 %				
No load current	134 Amps				
Rated torque	1320 lb-ft				
Load characteristics	Load %	Current Amps	Efficiency %	Power Factor	
	100	352	95.8	0.83	
	75	279	95.9	0.79	
	50	212	95.4	0.70	

Typical calculated values to NEMA. -

- Nema Nominal Eff. 95.8%

Motors & Generators Visiting Address

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ABB Oy

PERFORMANCE DATA OF MOTOR

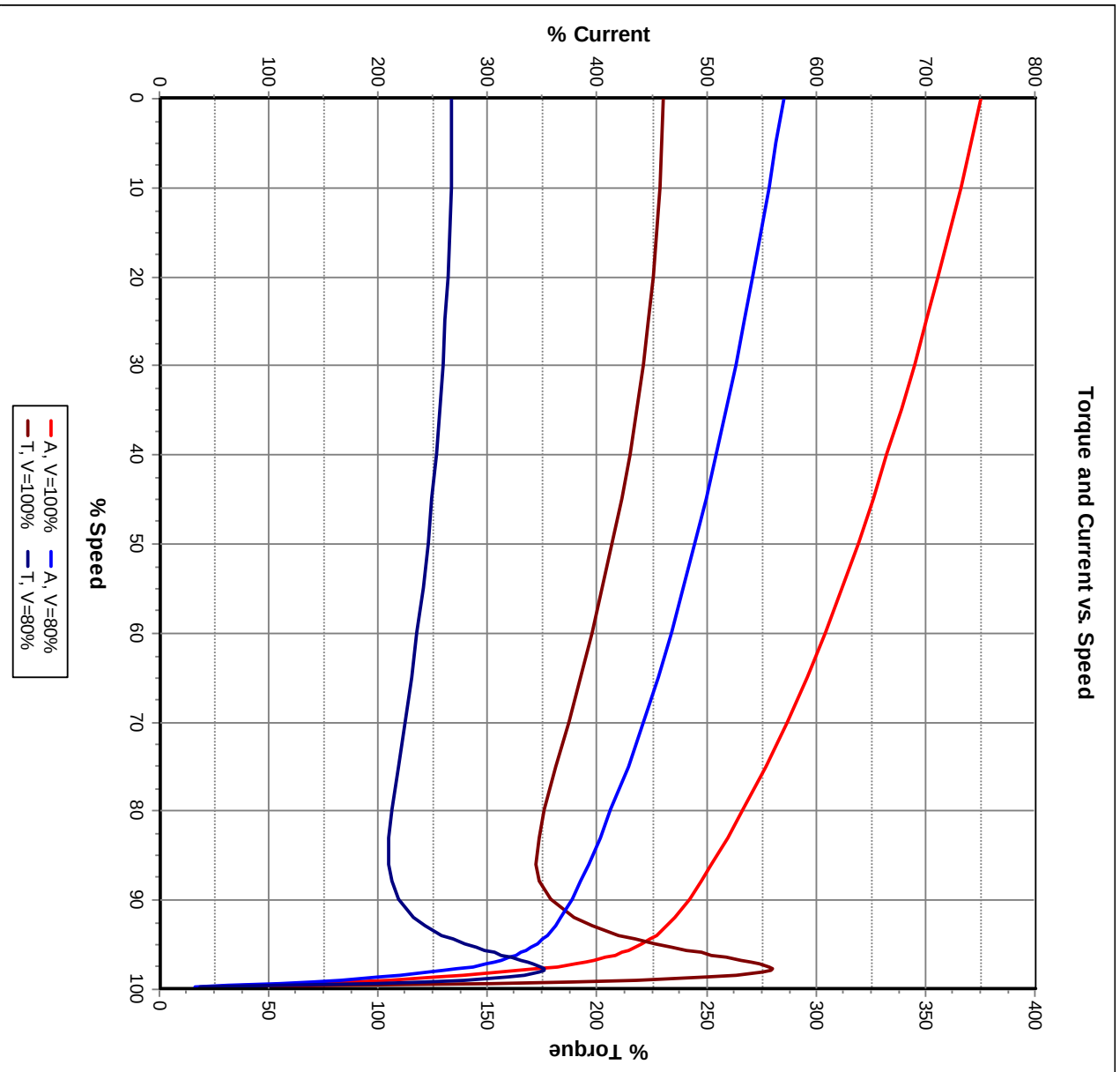


ABB Oy Motors & Generators			Classifying code or document type			
PERFORMANCE DATA OF MOTOR						
Department/Author	Date of issue	Lang.	Rev. date	Our ref.	Saving Ident	
MLA000/TISA	11.10.2018	En		3GZF021035-1237	TMAA-ASUG9J-TISA34	
Customer ref.				Rev.Changed by	Pages	
				A	2/3	

Motor type code: M3BN 587 MLB 6K

Rated output	300 HP	Power Factor	0.83
Voltage	460 V	Rated torque	1320 lb-ft
Frequency	60 Hz	Locked rotor Amps	750 %
Speed	1195 r/min	Locked rotor torque	230 %
Current	352 Amps	Breakdown torque	280 %

Torque and Current vs. Speed



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Customer ref.	Saving Ident			TMAA-ASUG9J-TISA34	A	3/3

PWM

Switch, freq. 3KHz
FMP 460VD 60Hz

Drive1

Rated power	75 HP
Rated voltage	117 V
Nominal frequency	15,3 Hz
Type of connection	Delta
Rated torque	1313 lb-ft
Speed	300 rpm
Current	356 Amps

Drive2

Rated power	300 HP
Rated voltage	460 V
Nominal frequency	60,3 Hz
Type of connection	Delta
Rated torque	1314 lb-ft
Speed	1200 rpm
Current	387 Amps

Constant torque 300 – 1200rpm

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Document No:
3GZF321100-1 E

Replaces:
Replaced by:

ABD

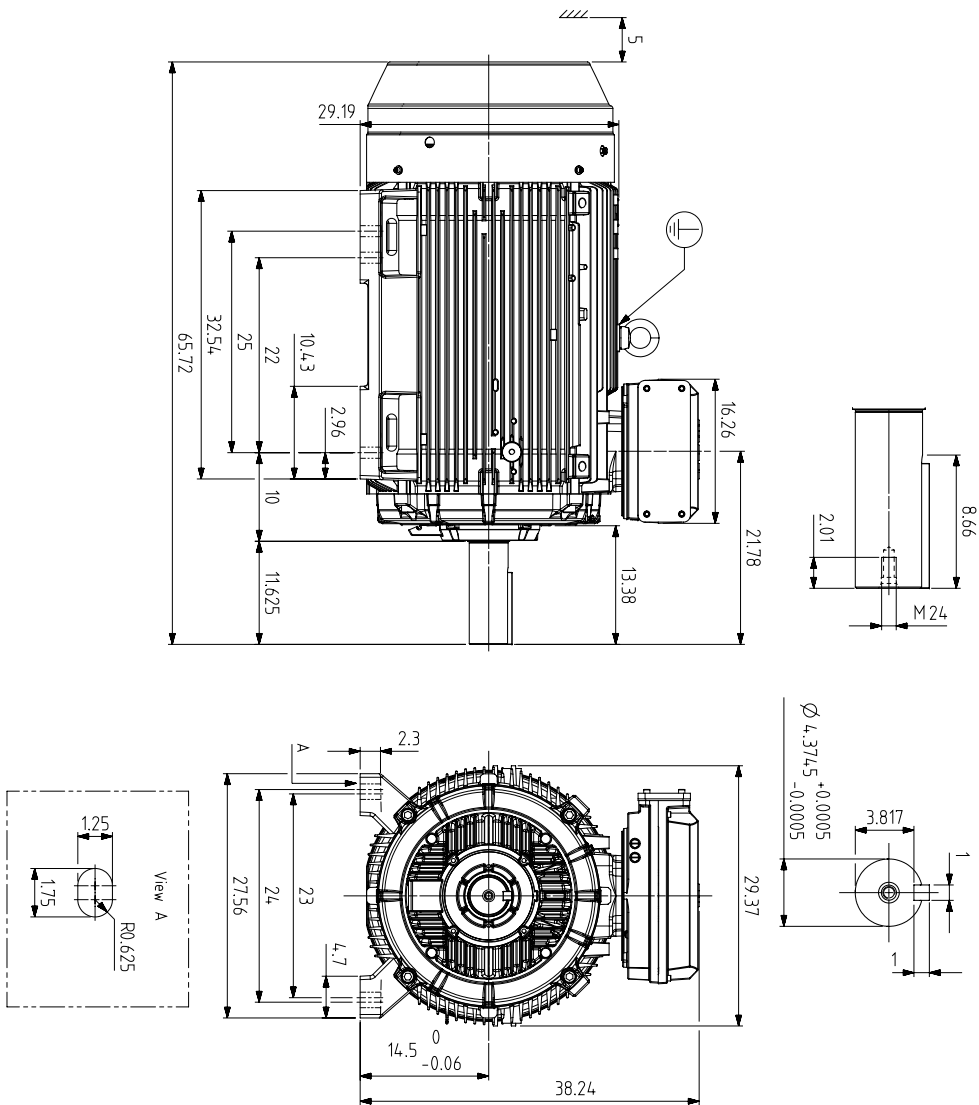
Accessory Connection Diagram				Document No: 3GZF321200-1 D	
Description: PTC-THERMISTORS					
Unit: Motors		Issued by: K. Höglkvist		Replaces:	
Date: 30.11.2005		Approved by: M. Prusi		Replaced by:	
ABB Oy		Customer Reference:		ABB	

Motor No
Maschine Nr
Moteur No

ABB Oy, Motors 3GZF321200-1 D

PTC-THERMISTORS
PTC-TEMPERATURFÜHLER
SONDES THERMIQUE PTC

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



Additional information:

Dimension Print		Motor Type: M3BN 587ML_4. B3, B6, B7, B8, V5, V6	Document No: 3GZF500098-174 A 14 BN 587 A
Description:	SQUIRREL CAGE MOTOR, CABLE ENTRY LHS, SPECIAL SHAFT, SLOTTED FEET HOLES. DIMENSIONS IN INCHES. MOTOR SIZES 586/587.		
Unit:	ABB Oy, Motors and Generators	Issued by: N. Palokangas	Replaces:
Date:	21.11.2019	Approved by: S. Tiikkonen	Replaced by:
ABB OY		Customer Reference:	