



Customer information packet

ECR586004-PPN

M3BN 587MLA 4P 600HP

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	3.4.2020	En		20200402-2844964-TISA1				
Customer ref.	Saving Ident		Rev./Changed by		Pages			
	20200402-2844964-TISA1		A		1/3			

Driven Motor:

Motor type code	M3BN 587 MLA 4K
Motor product code	3GBN982410-ADK
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	600 HP
Voltage	460 V
Frequency	60 Hz
Speed	1789 r/min
Current	679 Amps
Locked rotor Amps	740 %
Locked rotor torque	240 %
Breakdown torque	260 %
No load current	204 Amps
Rated torque	1763 lb-ft
Load characteristics	Current Amps
	100
	75
	50
	Efficiency %
	679
	530
	383
	Power Factor
	96.2
	95.8
	95.3
	0.86
	0.83
	0.77

Typical calculated values to NEMA. –

Motors & Generators Visiting Address
Strömbergin puistotie 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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Motor type code: M3BN 587 MLA 4K

Rated output	600 HP	Power Factor	0,86
Voltage	460 V	Rated torque	1763 lb-ft
Frequency	60 Hz	Locked rotor Amps	740 %
Speed	1789 r/min	Locked rotor torque	240 %
Current	679 Amps	Breakdown torque	260 %

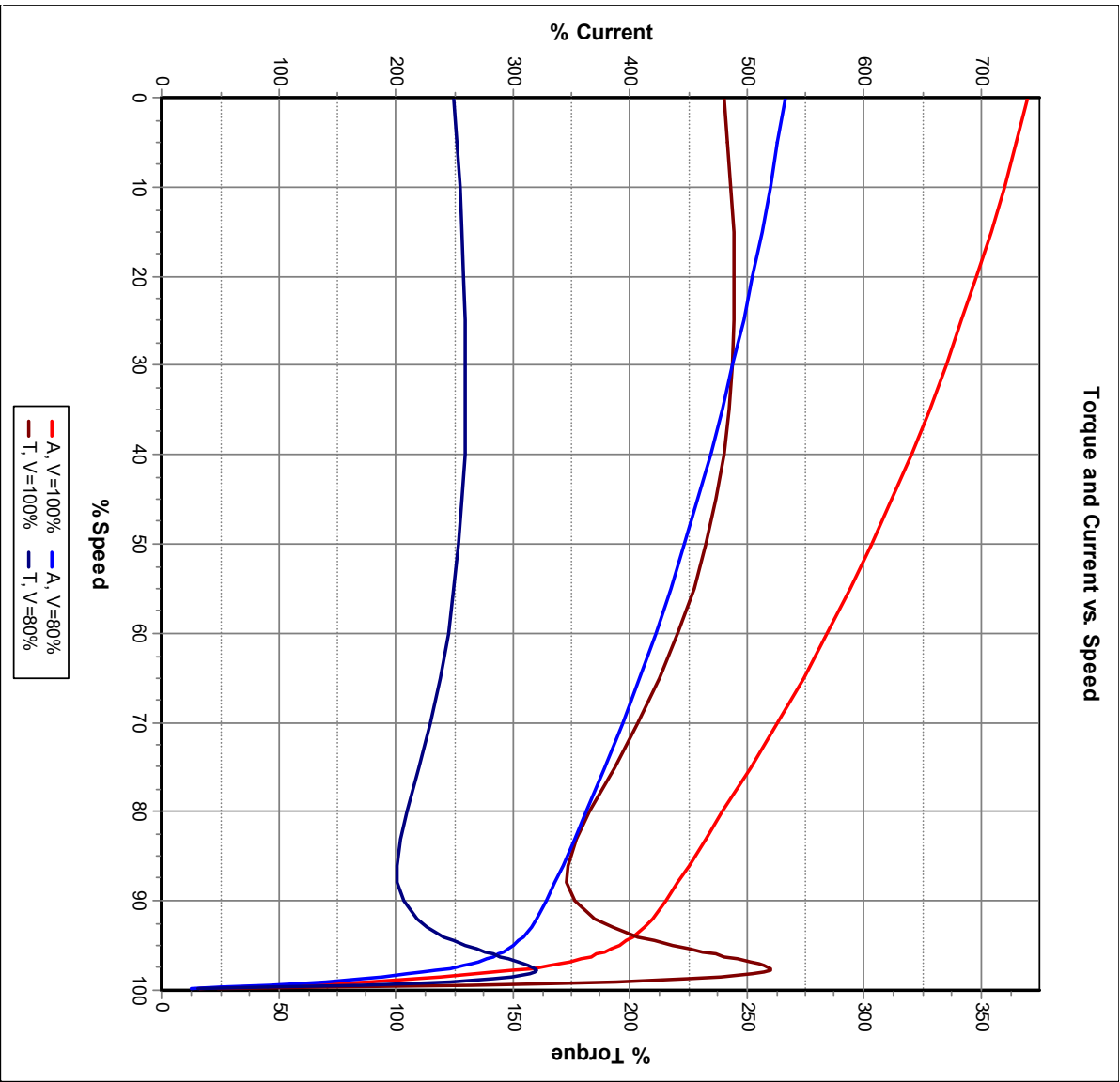


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			Pages 3/3

PWM
Switch. freq. 3kHz
FWP 460VD 60Hz
VSD-duty: Temp. rise class F

Drive1

Rated power	150 HP
Rated voltage	118 V
Nominal frequency	15,4 Hz
Type of connection	Delta
Rated torque	1752 lb-ft
Speed	450 rpm
Current	675 Amps

Drive2

Rated power	600 HP
Rated voltage	460 V
Nominal frequency	60,4 Hz
Type of connection	Delta
Rated torque	1752 lb-ft
Speed	1800 rpm
Current	735 Amps

Constant torque 450 – 1800rpm

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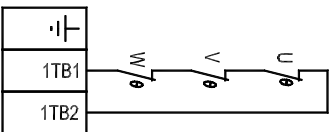


Document No:
3GZF321100-1 E

Replaces:

Replaced by:

AR



11TB1...11TB2	BIMETAL DETECTORS, TYPE NCC BIMETALL-THERMOSCHALTER, TYP NCC SONDES BIMETALLIQUES, TYPE NCC
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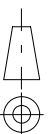
Motor No
Maschine Nr
Moteur No

ABB Oy, Electrical Machines LV Motors	3GZF321200-35 B
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Accessory Connection Diagram

Document No:
3GZF321200-35 B

Description:	BIMETAL DETECTORS
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Unit: Electrical Machines, LV Motors

Issued by: **K. Högvist**

Replaces:

Date: 16.01.2002

Approved by: M. Prusi

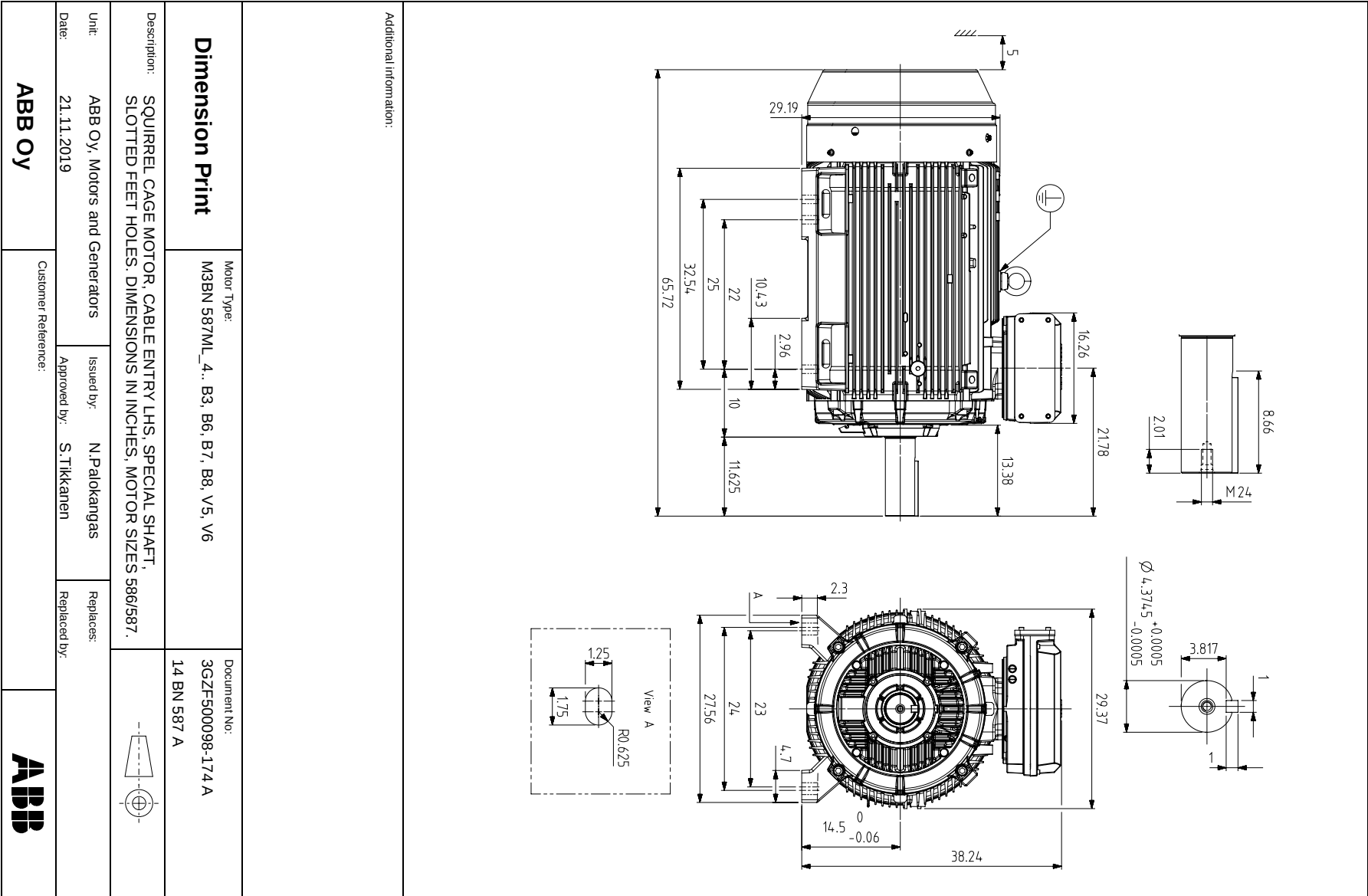
Replaced by:

Customer Reference:

ABB Oy



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



Unit: Motors Date: 21.09.2005 Issued by: M Prusi Approved by: Jari Raittia		Replaces: Replaced by:	
Description: 3-PHASE SQUIRREL-CAGE MOTOR		Document No:	
Connection Diagram		3GZF321100-1 E	

Diagram of connection
Anschluss-Schema
Schema de branchement

Connection of terminals
Anschluss des Motors
Branchement des bornes

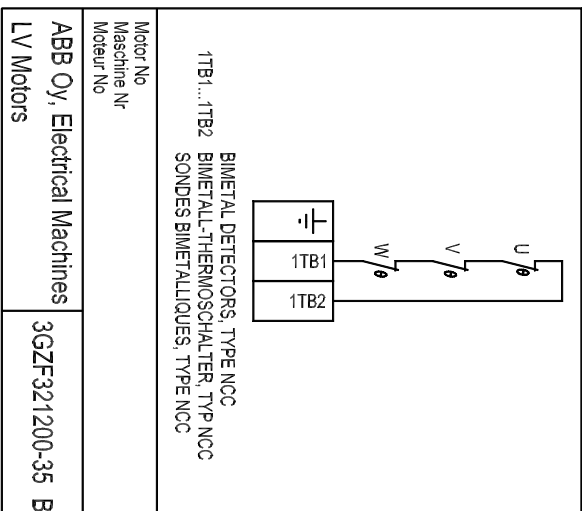
Direction of rotation with phase sequence shown in picture
Drehrichtung nach Schaltbild
Direction de rotation avec branchement ci-dessus

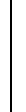
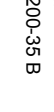
Motor No
Machine Nr
No du moteur

ABB Oy, Motors

ABB Oy

Customer Reference:



Accessory Connection Diagram			Document No: 3GZF321200-35 B
Description: BIMETAL DETECTORS			
Unit: Electrical Machines, LV Motors Date: 16.01.2002	Issued by: K. Höglkvist Approved by: M. Prusi	Replaces: Replaced by:	
ABB Oy	Customer Reference:		

Accessory Connection Diagram			Document No: 3GZF321200-1 D
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Unit: Motors	Issued by: K. Hogkvist	Replaces: Replaced by:	
Date: 30.11.2005	Approved by: M. Piusi	Replaced by:	
Customer Reference: ABB Oy		ABB	

