Customer information packet

ECR584006-PPN

M3BN 587MLB 6P B3 400HP

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Driven Motor:

Catalog Number		**ECR584006-PPN**		
Motor type code		M3BN 587 MLB 6G		
Motor product code		3GBN983420-ADGBA01		
Motor type		Squirrel cage Motor		
Mounting designation		IM1001 (B3)		
Protected by enclosure		IP66		
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		400 HP		
Voltage		460 V		
Frequency		60 Hz		
Speed		1192 r/min		
Current		465 Amps		
Locked rotor Amps		770 %	Code J	
Locked rotor torque		240 %		
Breakdown torque		260 %		
No load current		160 Amps		
Rated torque		1763 lb-ft		
Load characteristics	Load %	Current Amps	Efficiency %	Power Factor
	100	465	95.0	0.84
	75	365	95.0	0.81
	50	272	94.4	0.73

Typical calculated values to NEMA. –
-NEMA Nominal Efficiency 95.0%

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Motor type code: M3BN 587 MLB 6G

Rated output	400 HP	Power Factor	0.84
Voltage	460 V	Rated torque	1763 lb-ft
Frequency	60 Hz	Locked rotor Amps	770 %
Speed	1192 r/min	Locked rotor torque	240 %
Current	465 Amps	Breakdown torque	260 %

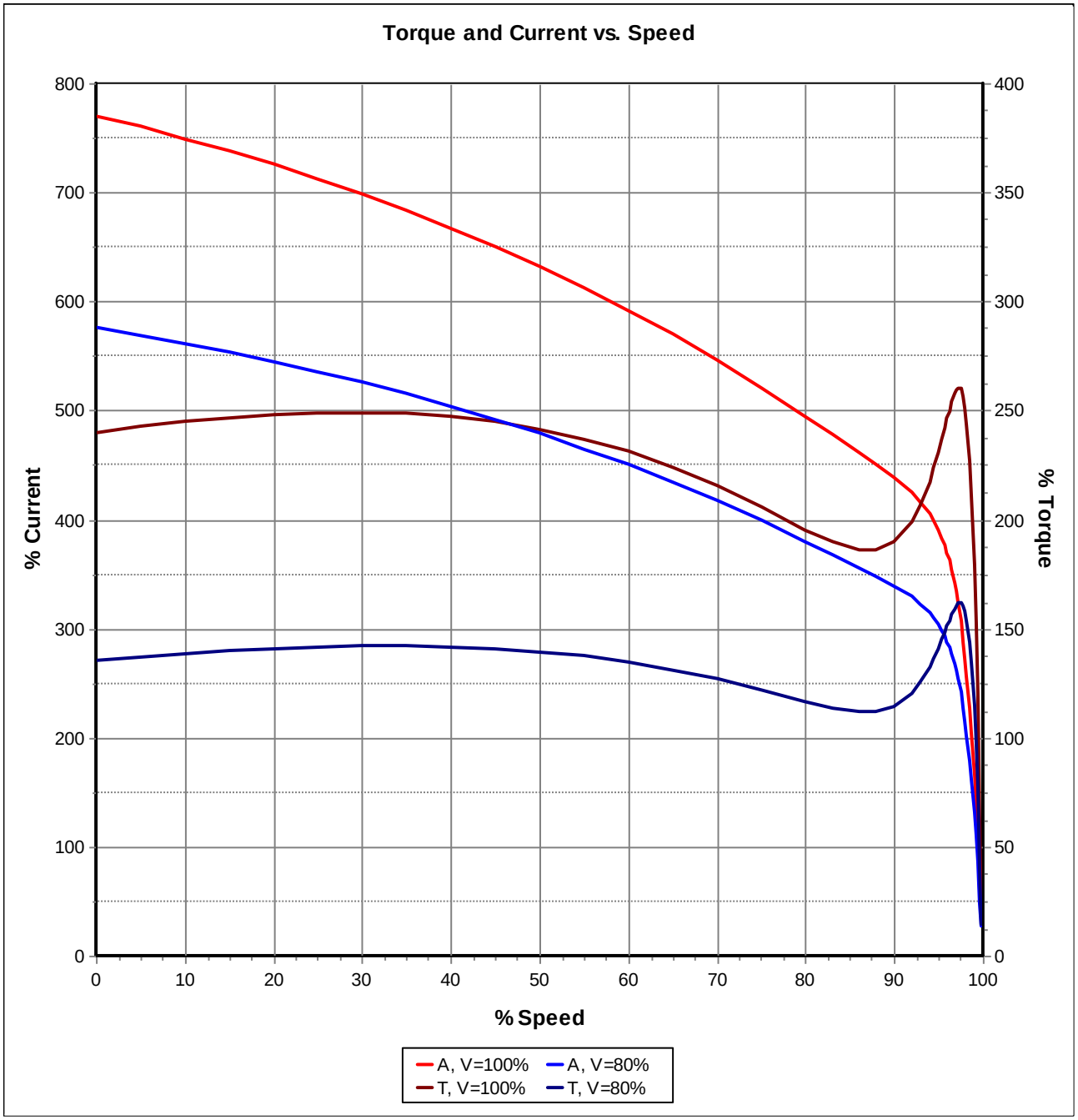


ABB Oy

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

Drive1

Rated power	100 HP
Rated voltage	118 V
Nominal frequency	15,4 Hz
Type of connection	Delta
Rated torque	1760 lb-ft
Speed	300 rpm
Current	471 Amps

Drive2

Rated power	400 HP
Rated voltage	460 V
Nominal frequency	60,5 Hz
Type of connection	Delta
Rated torque	1755 lb-ft
Speed	1200 rpm
Current	516 Amps

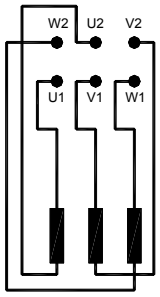
Constant torque 300 – 1200rpm

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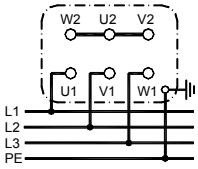
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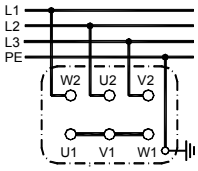
Diagram of connection
Anschluss-Schema
Schema de branchement

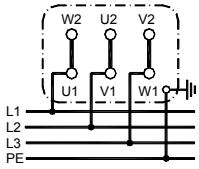


Connection of terminals
Anschluss des Motors
Branchement des bornes

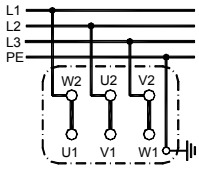


Y-connection
Y-Schaltung
Connection etoile





D-connection
D-Schaltung
Connection triangle





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



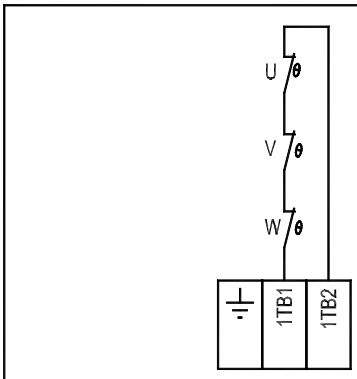
Direction of rotation with reversed phase sequence
Drehrichtung mit umgekehrter Phasenfolge
Direction de rotation avec sequence de phase reversée

Motor No Maschine Nr No du moteur	
ABB Oy, Motors	3GZF321100-1 E

Connection Diagram	Document No: 3GZF321100-1 E
Description: 3-PHASE SQUIRREL-CAGE MOTOR	

Unit:	Motors	Issued by:	M Prusi	Replaces:
Date:	21.09.2005	Approved by:	Jari Raittila	Replaced by:

ABB Oy	Customer Reference:	



BIMETAL DETECTORS, TYPE NCC
1TB1...1TB2 BIMETALL-THERMOSCHALTER, TYP NCC
SONDES BIMETALLIQUES, TYPE NCC

Motor No
Maschine Nr
Moteur No

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

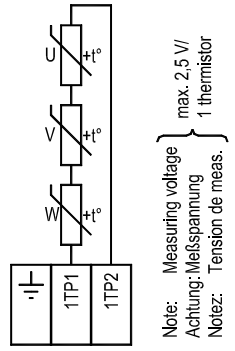
Accessory Connection Diagram

Document No: 3GZF321200-35 B

Description: BIMETAL DETECTORS

Unit:	Electrical Machines, LV Motors	Issued by:	K.Högkvist	Replaces:
Date:	16.01.2002	Approved by:	M.Prusi	Replaced by:

ABB Oy Customer Reference:



PTC-THERMISTORS
PTC-TEMPERATURFÜHLER
SONDES THERMIQUE PTC

Motor No
Maschine Nr
Moteur No

ABB Oy, Motors | 3GZF321200-1 D

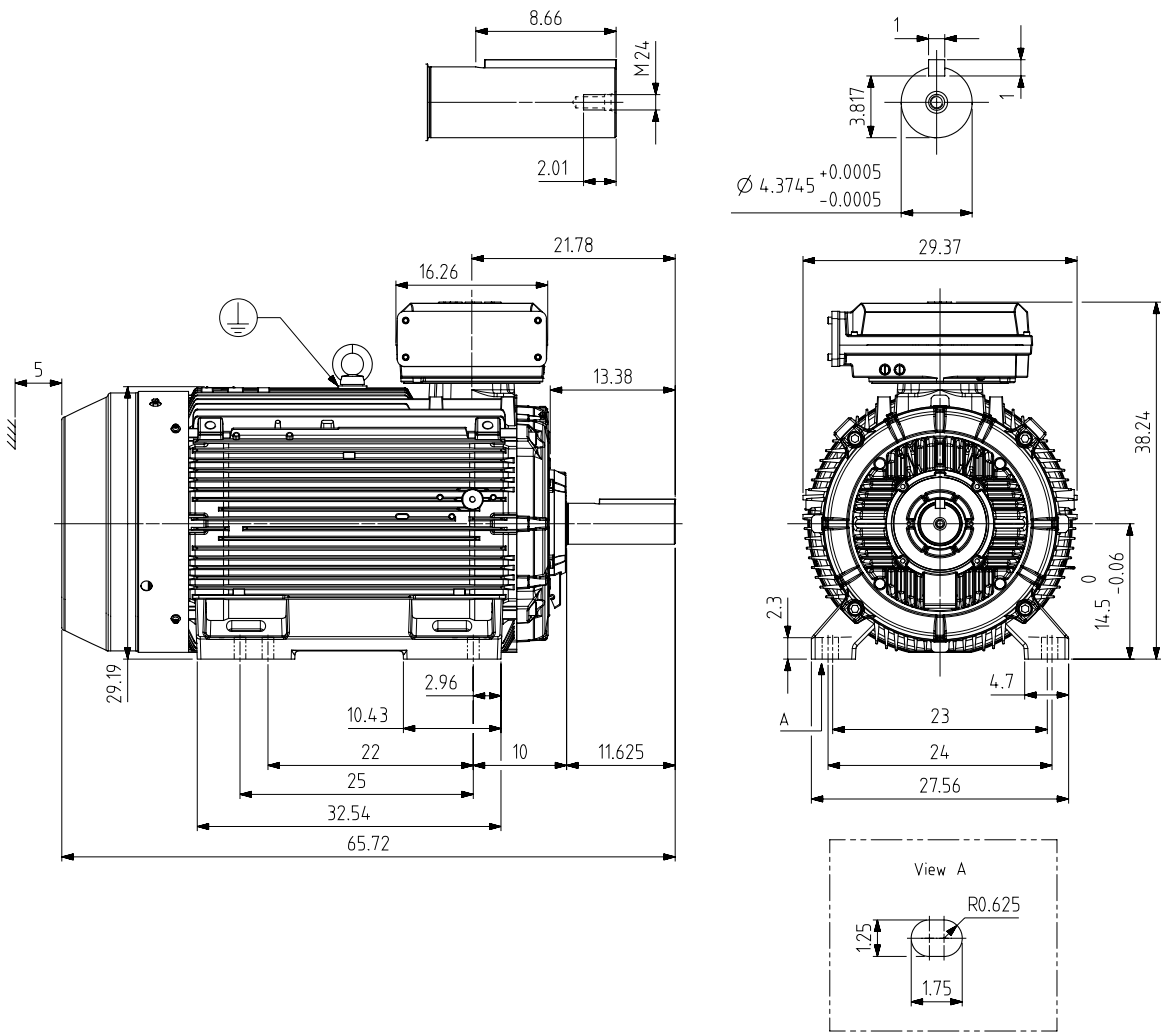
Accessory Connection Diagram

Document No: 3GZF321200-1 D

Description: PTC-THERMISTORS

Unit:	Motors	Issued by:	K.Högkvist	Replaces:
Date:	30.11.2005	Approved by:	M.Prusi	Replaced by:

ABB Oy | Customer Reference:



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.Tikkanen	Replaced by:

ABB Oy	Customer Reference:	