

ABB Oy Motors & Generators		PERFORMANCE DATA OF MOTOR			
Department/Author MLA000/TISA	Date of issue 11.10.2018	Lang. En	Rev. date	Our ref. 3GZF021035-1233	
Customer ref.	Saving Ident TMAA-ASUG9J-TISA30		Rev./Changed by A	Pages 1/3	

Driven Motor:

Catalog Number	ECR584004-PPN				
Motor type code	M3BN 587 MLA 4K				
Motor product code	3GBN982410-ADKBA03				
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	400 HP				
Voltage	460 V				
Frequency	60 Hz				
Speed	1791 r/min				
Current	452 Amps				
Locked rotor Amps	720 % Code H				
Locked rotor torque	220 %				
Breakdown torque	270 %				
No load current	134 Amps				
Rated torque	1171 lb-ft				
Load characteristics	Load %	Current Amps	Efficiency %	Power Factor	
	100	452	96,2	0,86	
	75	346	96,4	0,84	
	50	253	96,0	0,77	

Typical calculated values to NEMA. –

-NEMA Nominal Efficiency 96.2%

ABB Oy

Motors & Generators Visiting Address
Strömbergin puistotie 5 A
VAASA
FINLAND

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 3GZF021035-1233	Our ref. 3GZF021035-1233		
Customer ref.		Saving Ident TMAA-ASUG9J-TISA30			Rev./Changed by A	Pages 2/3

Motor type code: M3BN 587 MLA 4K

Rated output	400 HP	Power Factor	0,86
Voltage	460 V	Rated torque	1171 lb-ft
Frequency	60 Hz	Locked rotor Amps	720 %
Speed	1791 r/min	Locked rotor torque	220 %
Current	452 Amps	Breakdown torque	270 %

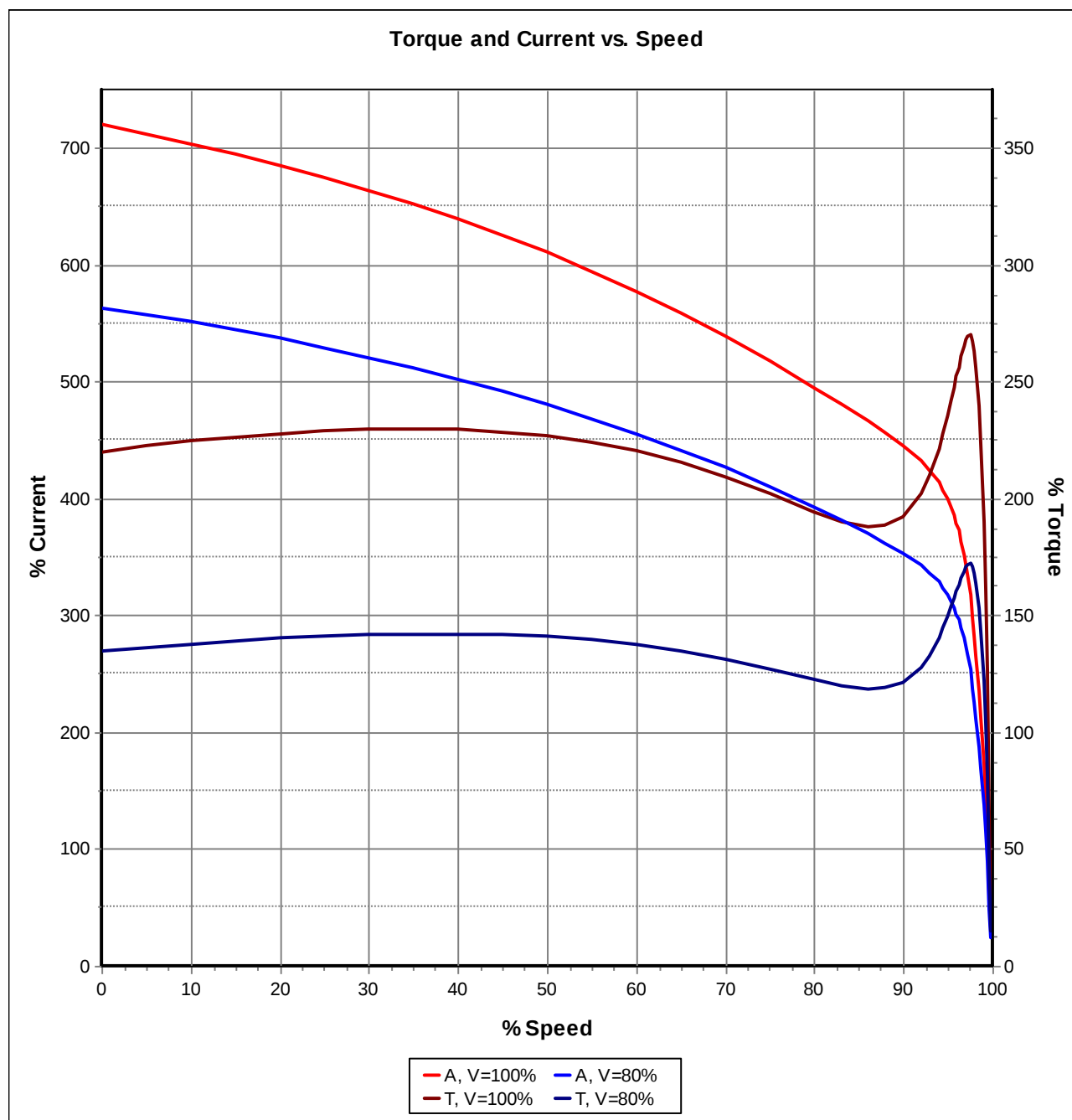


ABB Oy

Motors & Generators Visiting Address
Strömbergin puistotie 5 A
VAASA
FINLAND

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

Telephone
+358 10 222 000

Telefax
+358 10 224 7372

ABB Oy Motors & Generators		PERFORMANCE DATA OF MOTOR			
Department/Author MLA000/TISA	Date of issue 11.10.2018	Lang. En	Rev. date 3GZF021035-1233	Our ref. 3GZF021035-1233	
Customer ref.	Saving Ident TMAA-ASUG9J-TISA30		Rev./Changed by A	Pages 3/3	

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

Drive1

Rated power	100 HP
Rated voltage	117 V
Nominal frequency	15,3 Hz
Type of connection	Delta
Rated torque	1166 lb-ft
Speed	450 rpm
Current	456 Amps

Drive2

Rated power	400 HP
Rated voltage	460 V
Nominal frequency	60,4 Hz
Type of connection	Delta
Rated torque	1166 lb-ft
Speed	1800 rpm
Current	499 Amps

Constant torque 450 – 1800rpm

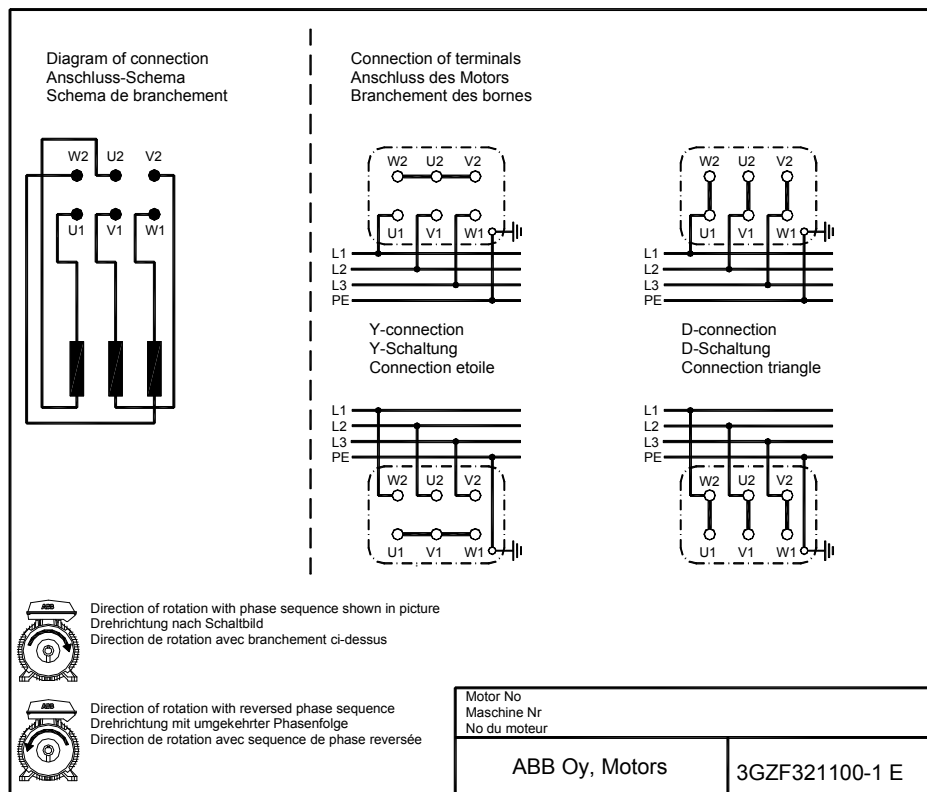
ABB Oy

Motors & Generators Visiting Address
Strömbergin puistotie 5 A
VAASA
FINLAND

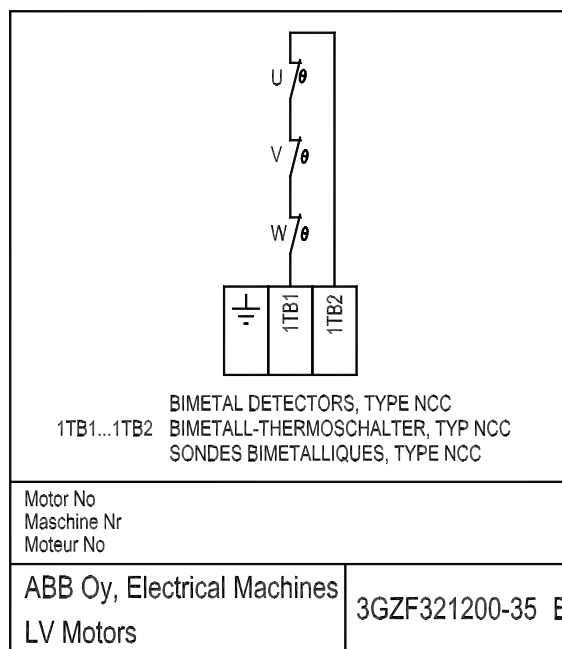
Postal Address
P.O.Box 633
FI-65101 VAASA
FINLAND

Telephone
+358 10 222 000

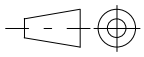
Telefax
+358 10 224 7372

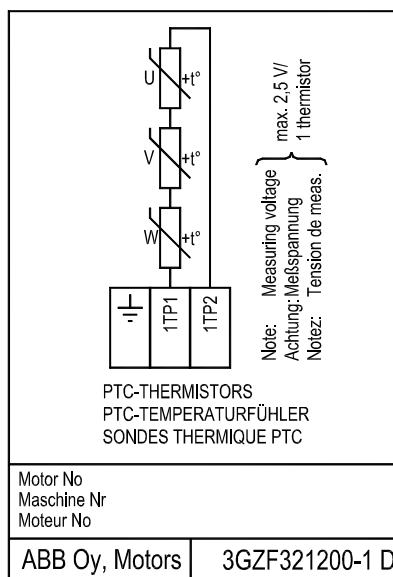


Connection Diagram			Document No: 3GZF321100-1 E
Description: 3-PHASE SQUIRREL-CAGE MOTOR			
Unit: Motors	Issued by: M Prusi	Replaces:	
Date: 21.09.2005	Approved by: Jari Raittila	Replaced by:	
ABB Oy	Customer Reference:		

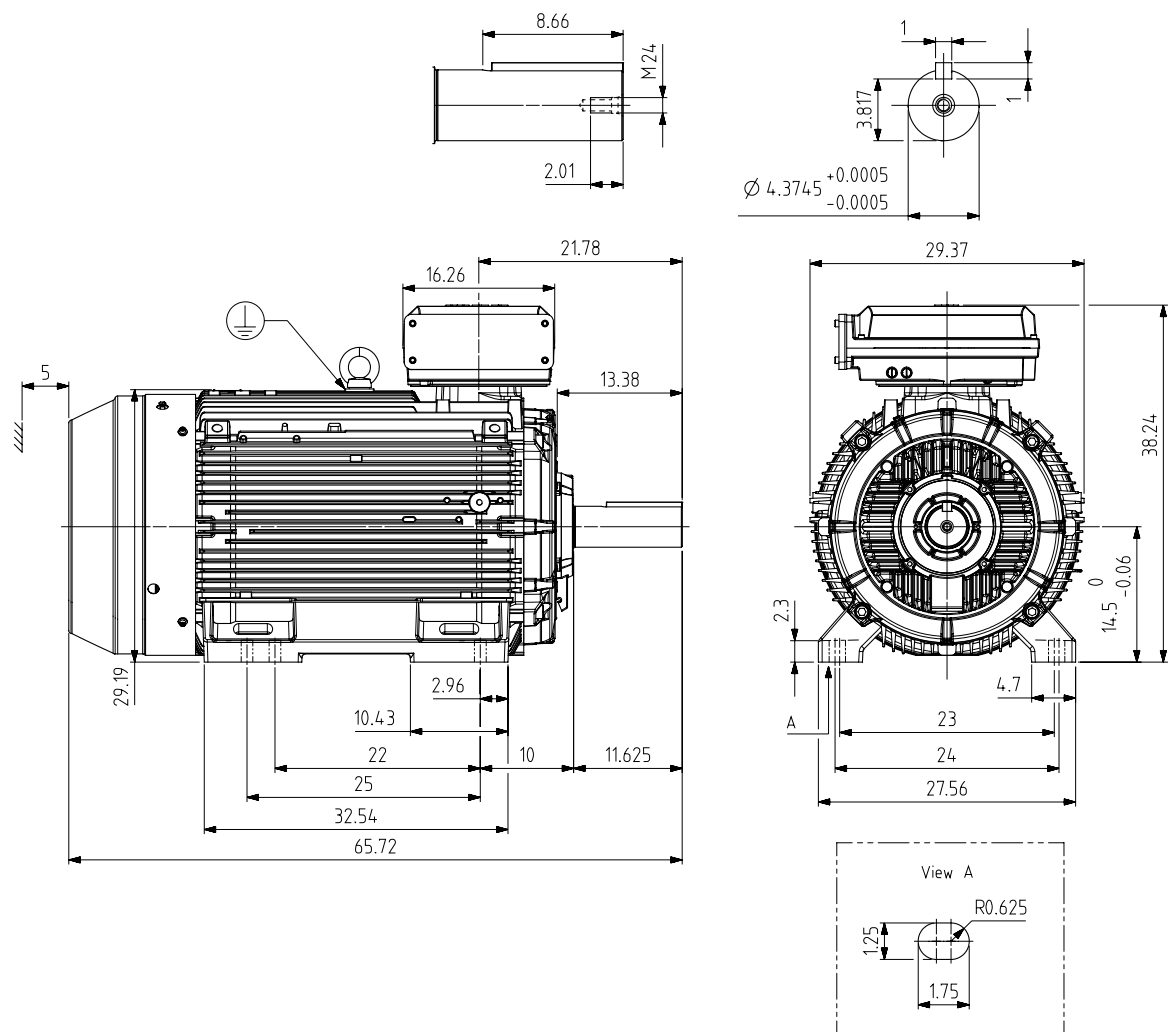


3GZF321200-35 B

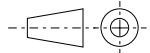
Accessory Connection Diagram			Document No: 3GZF321200-35 B
Description: BIMETAL DETECTORS			
Unit: Electrical Machines, LV Motors	Issued by: K.Högvist	Replaces:	
Date: 16.01.2002	Approved by: M.Prusi	Replaced by:	
ABB Oy	Customer Reference:		ABB



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



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 Date: 21.11.2019	Issued by: N.Palokangas Approved by: S.Tikkanen	Replaces: Replaced by:
ABB Oy	Customer Reference:	ABB