

ABB Oy Motors & Generators		Classifying code or document type PERFORMANCE DATA OF MOTOR			
Department/Author MLA000/TISA	Date of issue 3.4.2020	Lang. En	Rev. date	Our ref. 20200402-2844964-TISA1	
Customer ref.	Saving Ident 20200402-2844964-TISA1		Rev./Changed by A	Pages 1/3	

Driven Motor:

Motor type code Motor product code Motor type Mounting designation Protected by enclosure Method of cooling Insulation Service factor Standards International efficiency classification (IEC 60034-30) Ambient temperature, max. Altitude, max.		M3BN 587 MLA 4K 3GBN982410-ADK Squirrel cage Motor IM 1001 TEFC TEFC Class F (Shock Resistant) SF1.15 TEMP RISE CLASS F NEMA IE3 40 °C 3280 ft.a.s.l.			
Duty type Temp. rise Connection of stator winding Rated output Voltage Frequency Speed Current		Continuous Class B Delta 600 HP 460 V 60 Hz 1789 r/min 679 Amps			
Locked rotor Amps Locked rotor torque Breakdown torque No load current Rated torque		740 % Code H 240 % 260 % 204 Amps 1763 lb-ft			
Load characteristics	Load %	Current Amps	Efficiency %	Power Factor	
	100	679	96,2	0,86	
	75	530	95,8	0,83	
	50	383	95,3	0,77	

Typical calculated values to NEMA. –

Motors & Generators Visiting Address
Strömbergin puistotie 5 A
VAASA
FINLAND

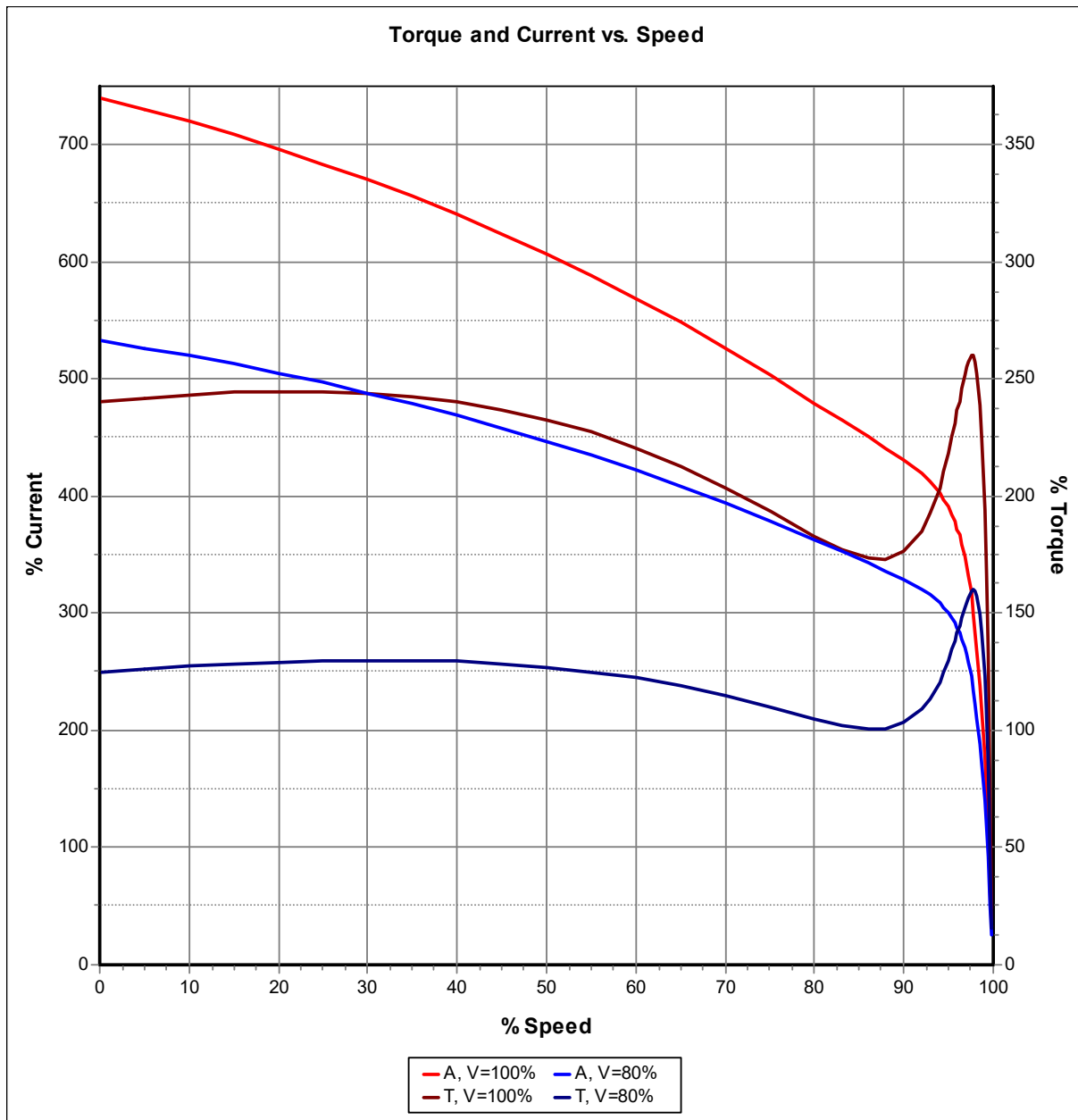
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Motor type code: M3BN 587 MLA 4K

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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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

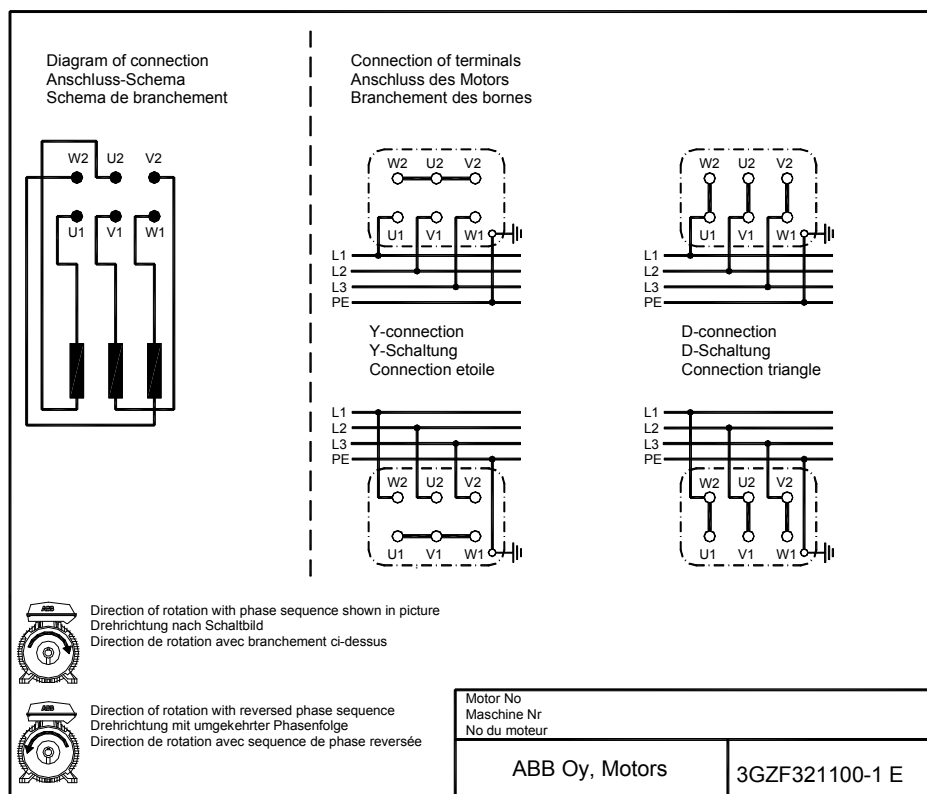
Rated power	600 HP
Rated voltage	460 V
Nominal frequency	60,4 Hz
Type of connection	Delta
Rated torque	1752 lb-ft
Speed	1800 rpm
Current	735 Amps

Constant torque 450 – 1800rpm

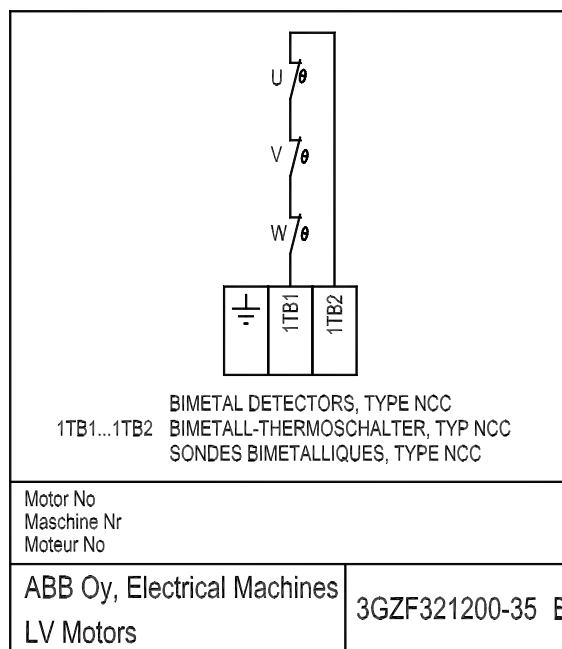
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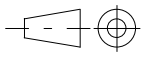
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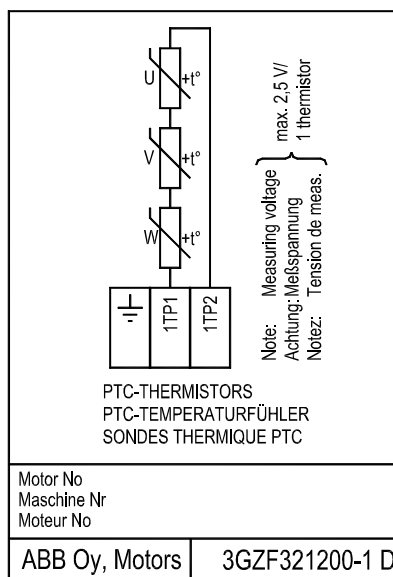
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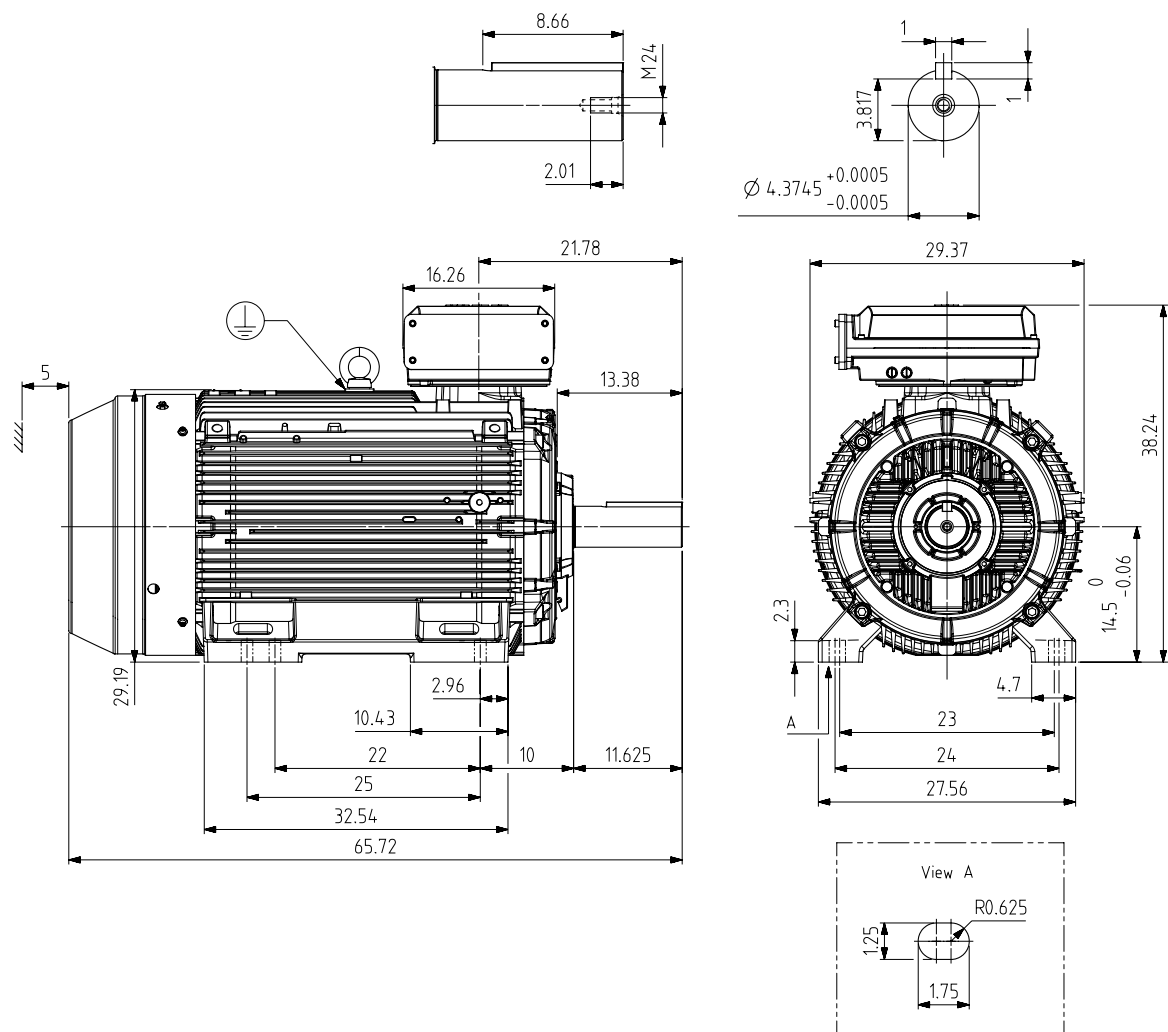
Connection Diagram			Document No: 3GZF321100-1 E
Description: 3-PHASE SQUIRREL-CAGE MOTOR			
Unit: Motors	Issued by: M Prusi	Replaces:	
Date: 21.09.2005	Approved by: Jari Raittila	Replaced by:	
ABB Oy	Customer Reference:		ABB



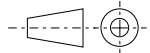
Accessory Connection Diagram			Document No: 3GZF321200-35 B
Description: BIMETAL DETECTORS			
Unit: Electrical Machines, LV Motors	Issued by: K.Högvist	Replaces:	
Date: 16.01.2002	Approved by: M.Prusi	Replaced by:	
ABB Oy	Customer Reference:		ABB

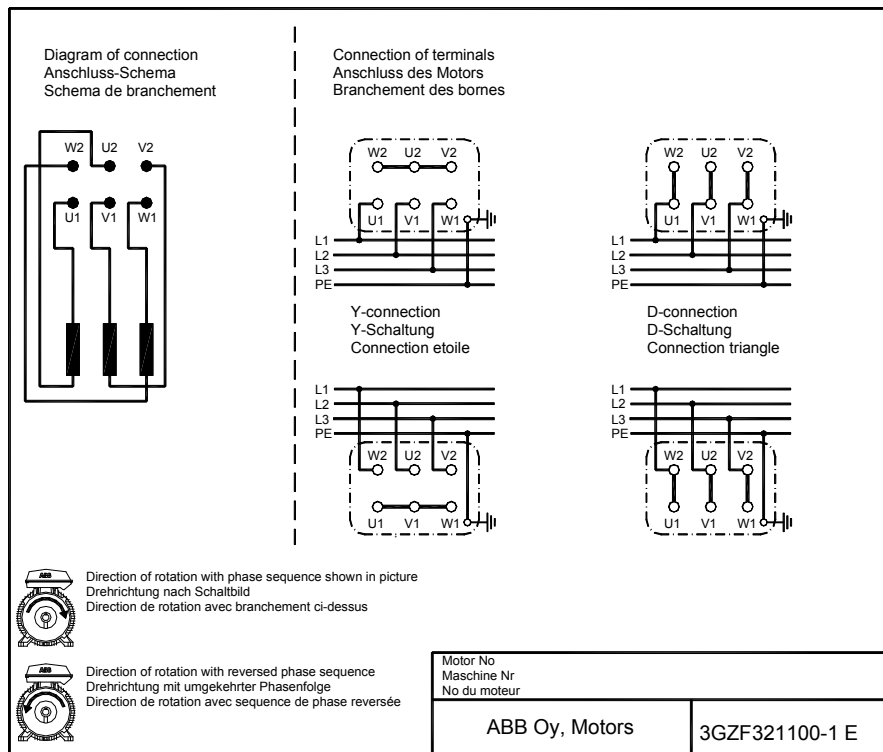


Accessory Connection Diagram			Document No: 3GZF321200-1 D
Description: PTC-THERMISTORS			
Unit: Motors	Issued by: K.Högvist	Replaces:	
Date: 30.11.2005	Approved by: M.Prusi	Replaced by:	
ABB Oy	Customer Reference:		ABB

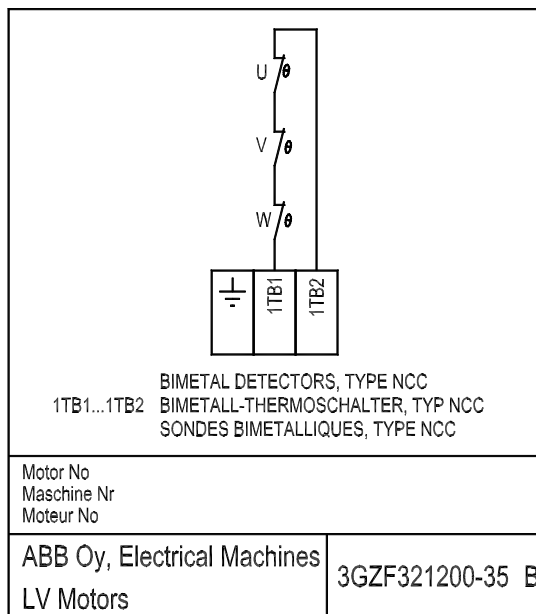


Additional information:

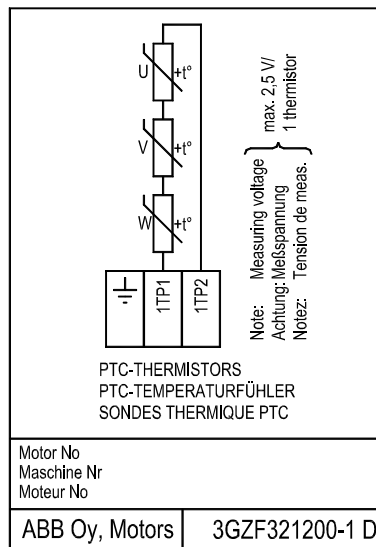
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Description: SQUIRREL CAGE MOTOR, CABLE ENTRY LHS, SPECIAL SHAFT, SLOTTED FEET HOLES. DIMENSIONS IN INCHES, MOTOR SIZES 586/587.		
Unit: ABB Oy, Motors and Generators Date: 21.11.2019	Issued by: N.Palokangas Approved by: S.Tikkanen	Replaces: Replaced by:
ABB Oy	Customer Reference:	ABB



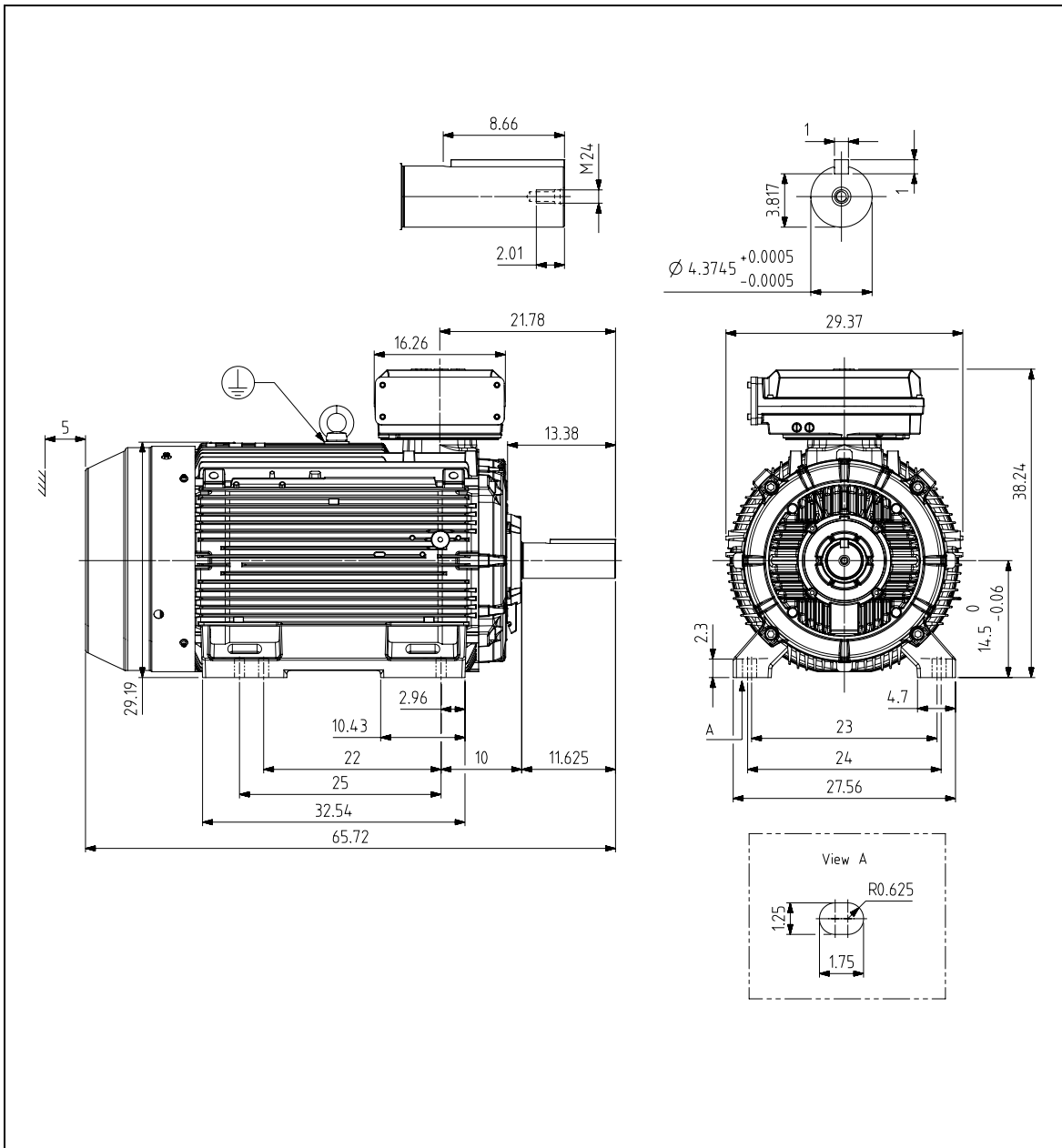
Connection Diagram			Document No: 3GZF321100-1 E
Description: 3-PHASE SQUIRREL-CAGE MOTOR			
Unit: Motors	Issued by: M Prusi	Replaces:	
Date: 21.09.2005	Approved by: Jari Raittila	Replaced by:	
ABB Oy	Customer Reference:		



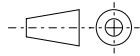
Accessory Connection Diagram			Document No: 3GZF321200-35 B
Description: BIMETAL DETECTORS			
Unit: Electrical Machines, LV Motors	Issued by: K.Högvist	Replaces:	
Date: 16.01.2002	Approved by: M.Prusi	Replaced by:	
ABB Oy	Customer Reference:		



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Description: PTC-THERMISTORS			
Unit: Motors	Issued by: K.Högvist	Replaces:	
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