

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	Our ref. 3GZF021035-1240		
Customer ref.		Saving Ident TMAA-ASUG9J-TISA33			Rev./Changed by A	Pages 1/3

Driven Motor:

Catalog Number 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.		ECR582506-PPN M3BN 587 MLB 6K 3GBN983420-ADKBA01 Squirrel cage Motor IM 1001 IP66 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 250 HP 460 V 60 Hz 1195 r/min 295 Amps				
Locked rotor Amps Locked rotor torque Breakdown torque No load current Rated torque		690 % Code H 200 % 250 % 104 Amps 1102 lb-ft				
Load characteristics	Load %	Current Amps	Efficiency %	Power Factor		
	100	295	95,8	0,83		
	75	229	96,1	0,80		
	50	171	95,5	0,72		

Typical calculated values to NEMA. –

-Nema Nominal Eff. 95.8%

ABB Oy

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Motor type code: M3BN 587 MLB 6K

Rated output	251 HP	Power Factor	0,83
Voltage	460 V	Rated torque	1102 lb-ft
Frequency	60 Hz	Locked rotor Amps	690 %
Speed	1195 r/min	Locked rotor torque	200 %
Current	295 Amps	Breakdown torque	250 %

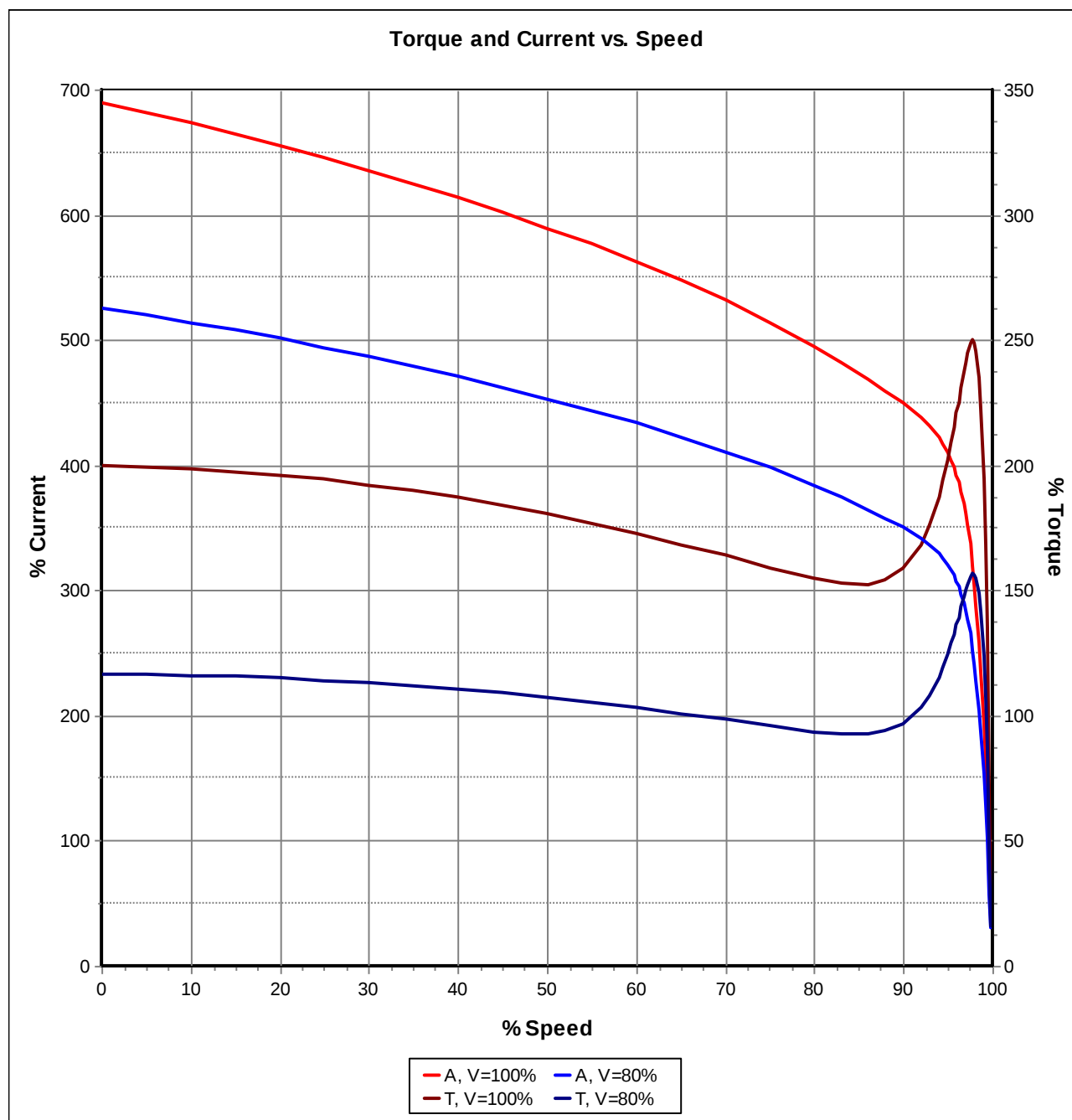


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PWM
Switch. freq. 3kHz
FWP 460VD 60Hz
VSD-duty: Temp. rise class F

Drive1

Rated power	62 HP
Rated voltage	117 V
Nominal frequency	15,3 Hz
Type of connection	Delta
Rated torque	1092 lb-ft
Speed	300 rpm
Current	296 Amps

Drive2

Rated power	250 HP
Rated voltage	460 V
Nominal frequency	60,4 Hz
Type of connection	Delta
Rated torque	1092 lb-ft
Speed	1200 rpm
Current	317 Amps

Constant torque 300 – 1200rpm

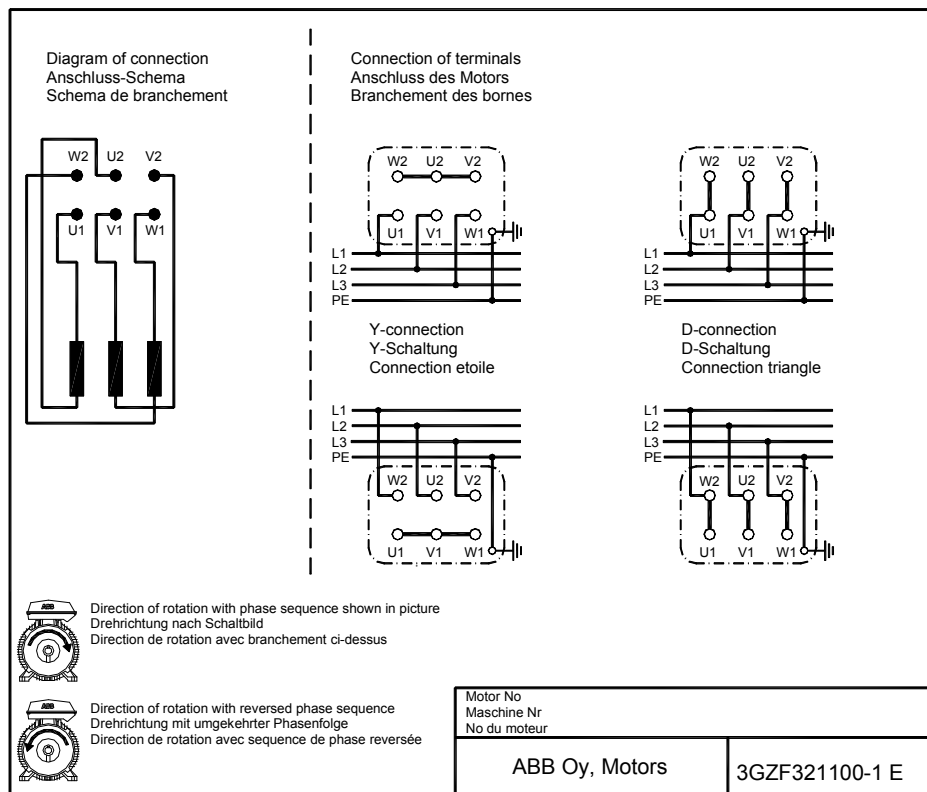
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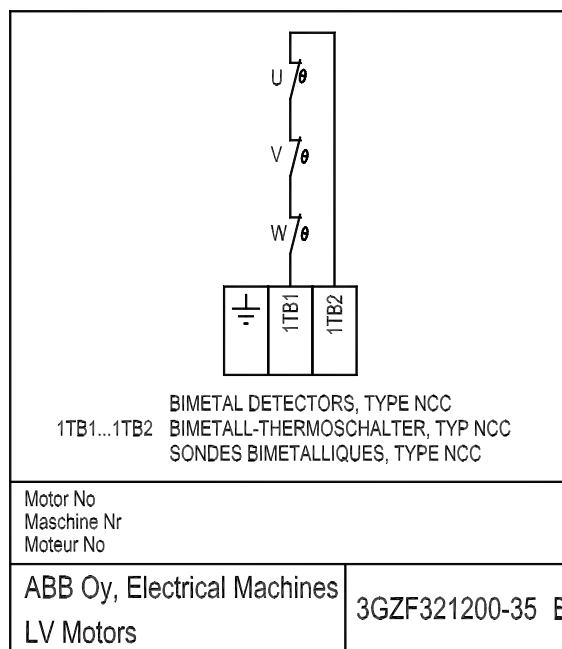
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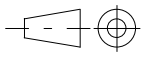
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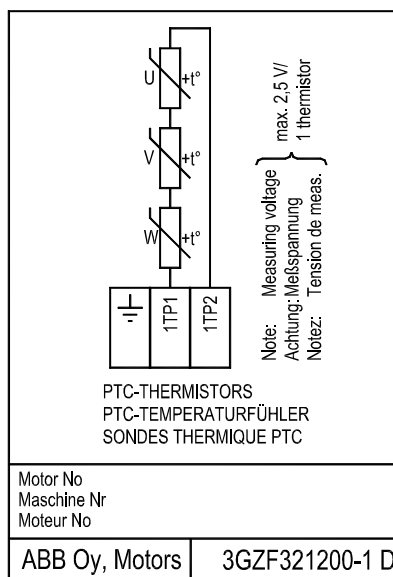
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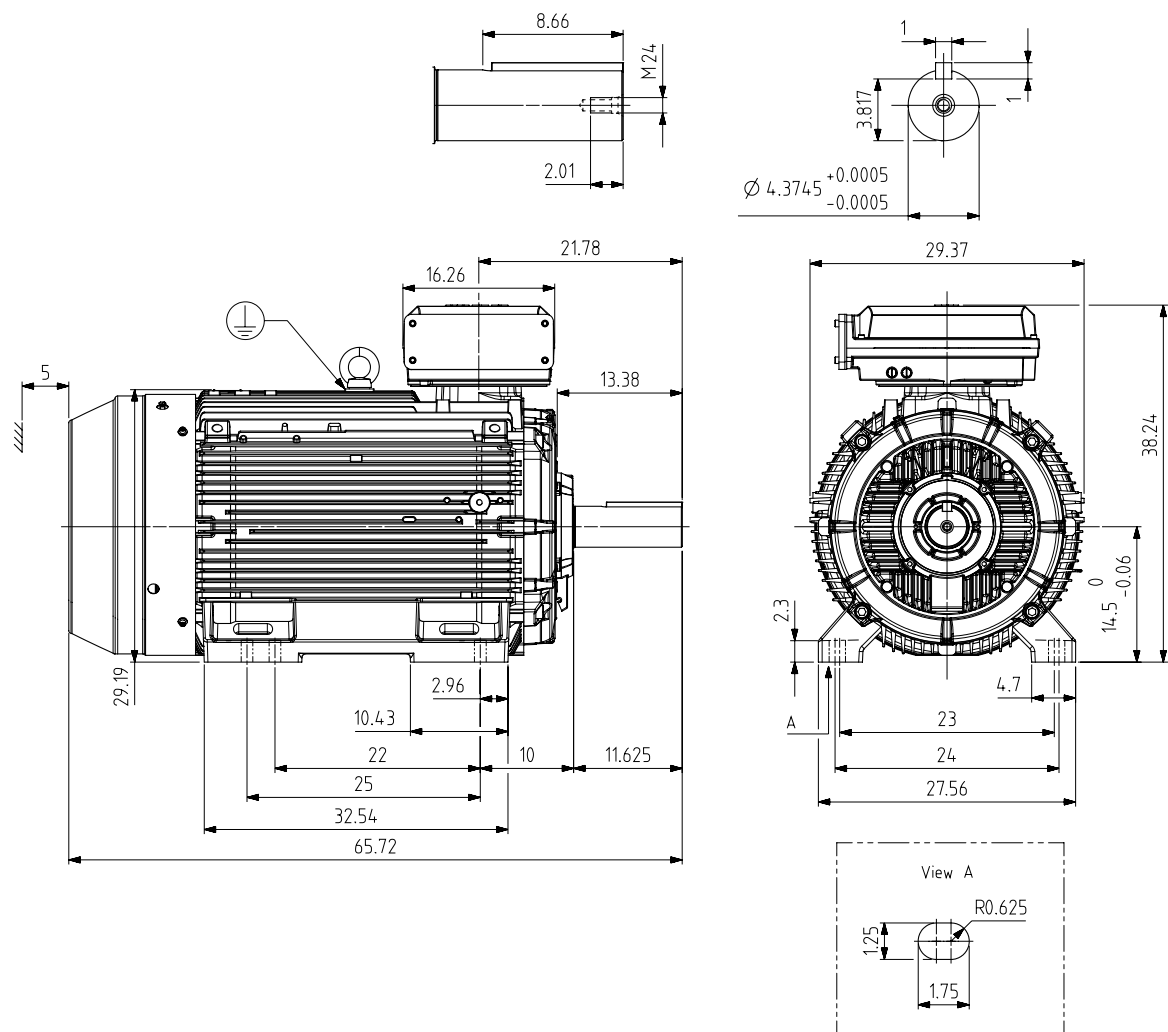
Connection Diagram			Document No: 3GZF321100-1 E
Description: 3-PHASE SQUIRREL-CAGE MOTOR			
Unit: Motors	Issued by: M Prusi	Replaces:	
Date: 21.09.2005	Approved by: Jari Raittila	Replaced by:	
ABB Oy	Customer Reference:		ABB



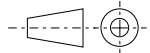
Accessory Connection Diagram			Document No: 3GZF321200-35 B
Description: BIMETAL DETECTORS			
Unit: Electrical Machines, LV Motors	Issued by: K.Högvist	Replaces:	
Date: 16.01.2002	Approved by: M.Prusi	Replaced by:	
ABB Oy	Customer Reference:		ABB



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:

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