BALDOR • RELIANCE

Customer information packet

ECR584004-PPN

M3BN 587MLA 4P B3 400HP

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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	11.10.2018	En		3GZF021035-1233	
Customer ref.			Saving Ident	Rev./Changed by	Pages
			TMAA-ASUG9J-TISA30	A	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%

BALDOR • RELIANCE CUSTOMER INFORMATION PACKET ECR584004-PPN - M3BN 587MLA 4P B3 400HP

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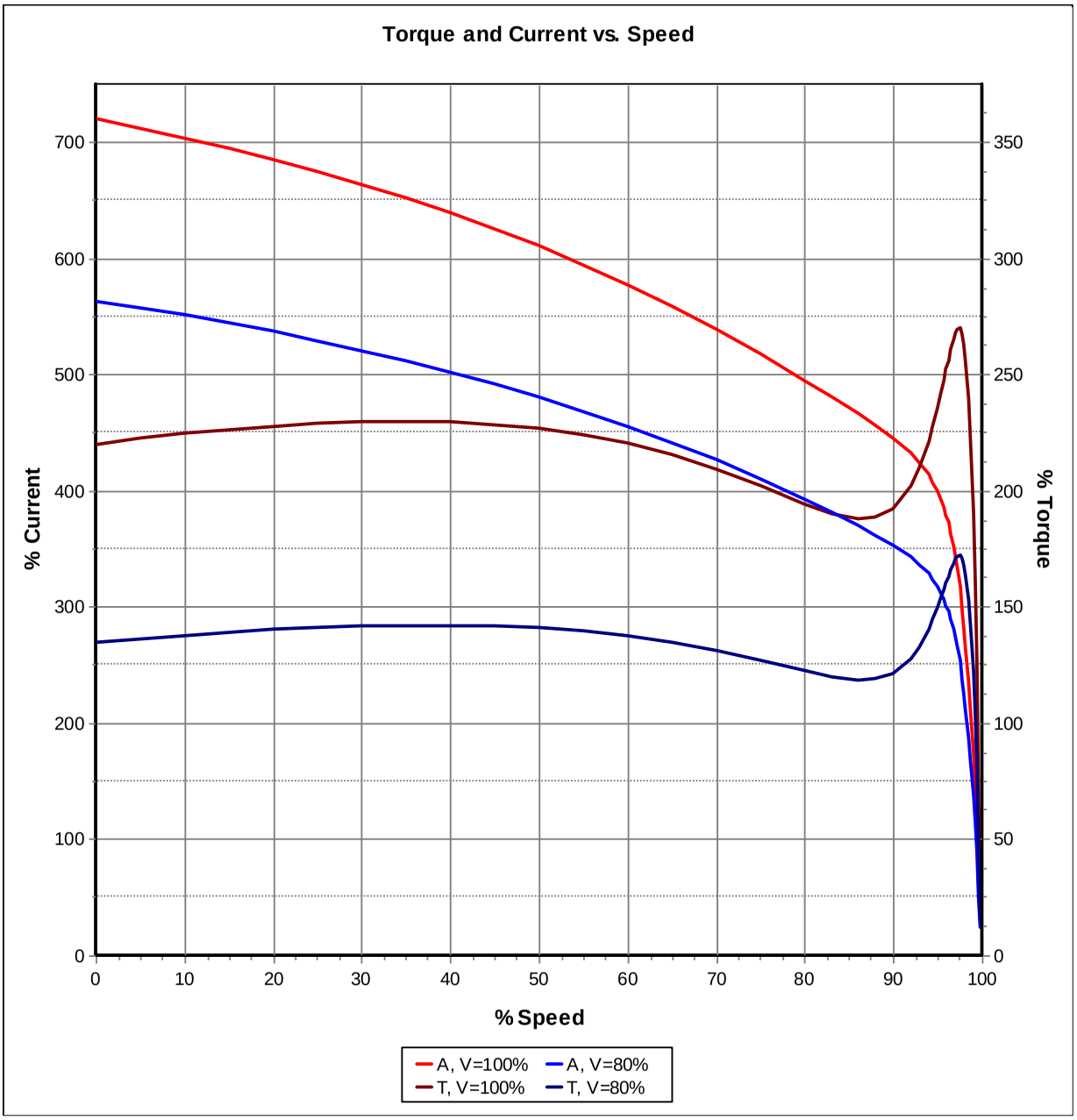
			TMAA-ASUG9J-TISA30	A	2/3

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 %



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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

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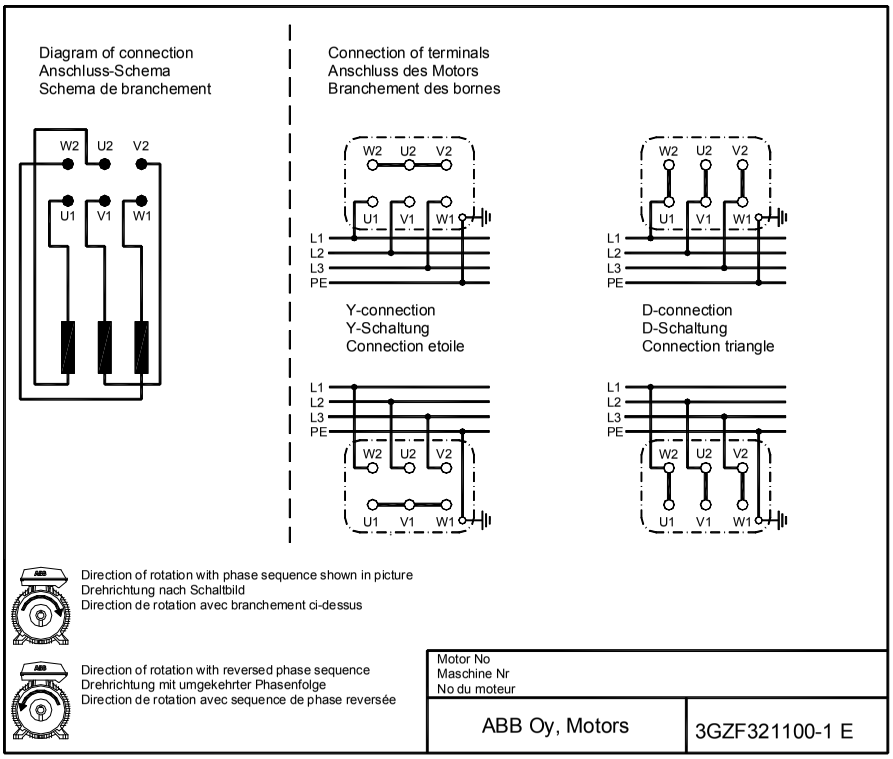
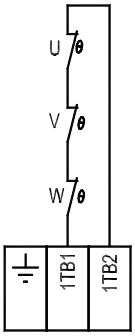


Connection Diagram			Document No: 3GZF321100-1 E
Description:	3-PHASE SQUIRREL-CAGE MOTOR		
Unit: Motors		Issued by: M Prusi	Replaces:
Date: 21.09.2005		Approved by: Jari Raittila	Replaced by:
ABB Oy	Customer Reference:		



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

Motor No
Maschine Nr
Moteur No

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

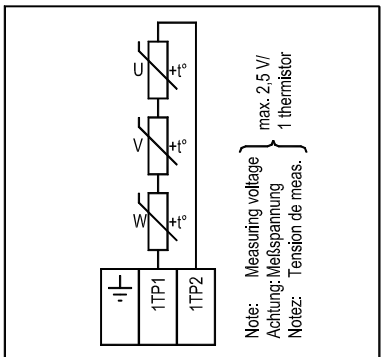
Accessory Connection Diagram

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:



Motor No
Maschine Nr
Moteur No

ABB Oy, Motors | 3GZF321200-1 D

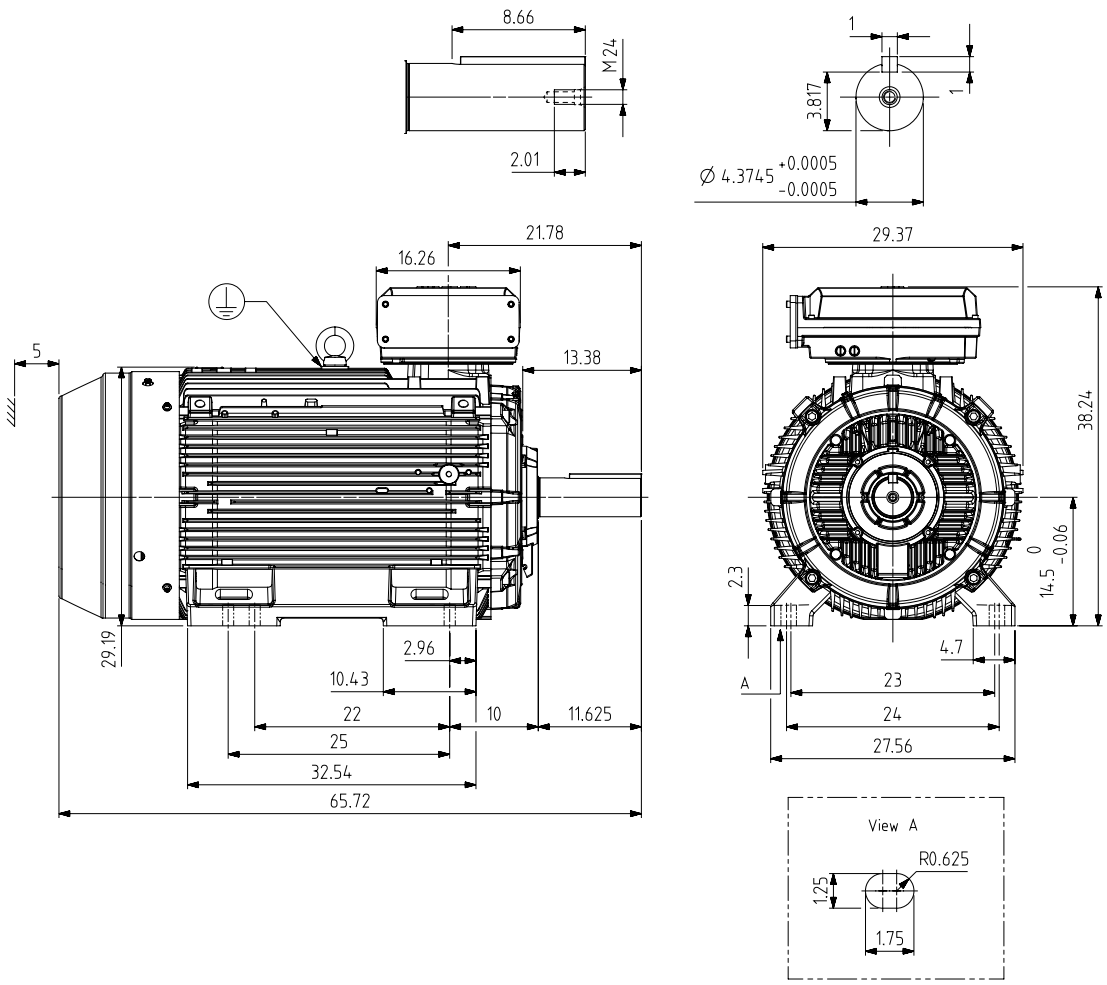
Accessory Connection Diagram

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