Customer information packet

EMM09154-S-AP

M3AA 90LD 4P B3 1.5KW

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ABB MOTORS AND GENERATORS

Motor data sheet

M3AA 90LD 4

Definition	Data	Unit	Remarks
Product code	3GAA092540-**K		
Voltage code	S		
Type/Frame	M3AA 90LD 4		
Design	CENELEC		
Efficiency class	IE3		
Rated output P_N	1.5	kW	
Rated voltage U_N	460	V	± 5 % (IEC 60034-1)
Rated frequency f_N	60	Hz	± 2 % (IEC 60034-1)
Rated speed n_N	1748	r/min	
Rated current I_N	2.9	A	
Starting current I_S/I_N	9.5		
Nominal torque T_N	8.1	Nm	
Locked rotor torque T_l/T_N	4		
Maximum torque T_b/T_N	5		
Efficiency - full load 100%	86.5	%	Acc. to IEC 60034-2-1
Efficiency - 75%	85.1	%	
Efficiency - 50%	82	%	
Power factor - full load 100%	0.75		
Bearing DE/NDE	6205-2Z/C3 6204-2Z/C3		
Sound pressure level L_{PA} dB	57	dB(A)	+3dB(A)
Moment of inertia J = ¼ GD^2 kgm^2	0.01	kg-m²	
Weight	19	kg	

All data subject to tolerances in accordance with IEC. Data subject to changes.

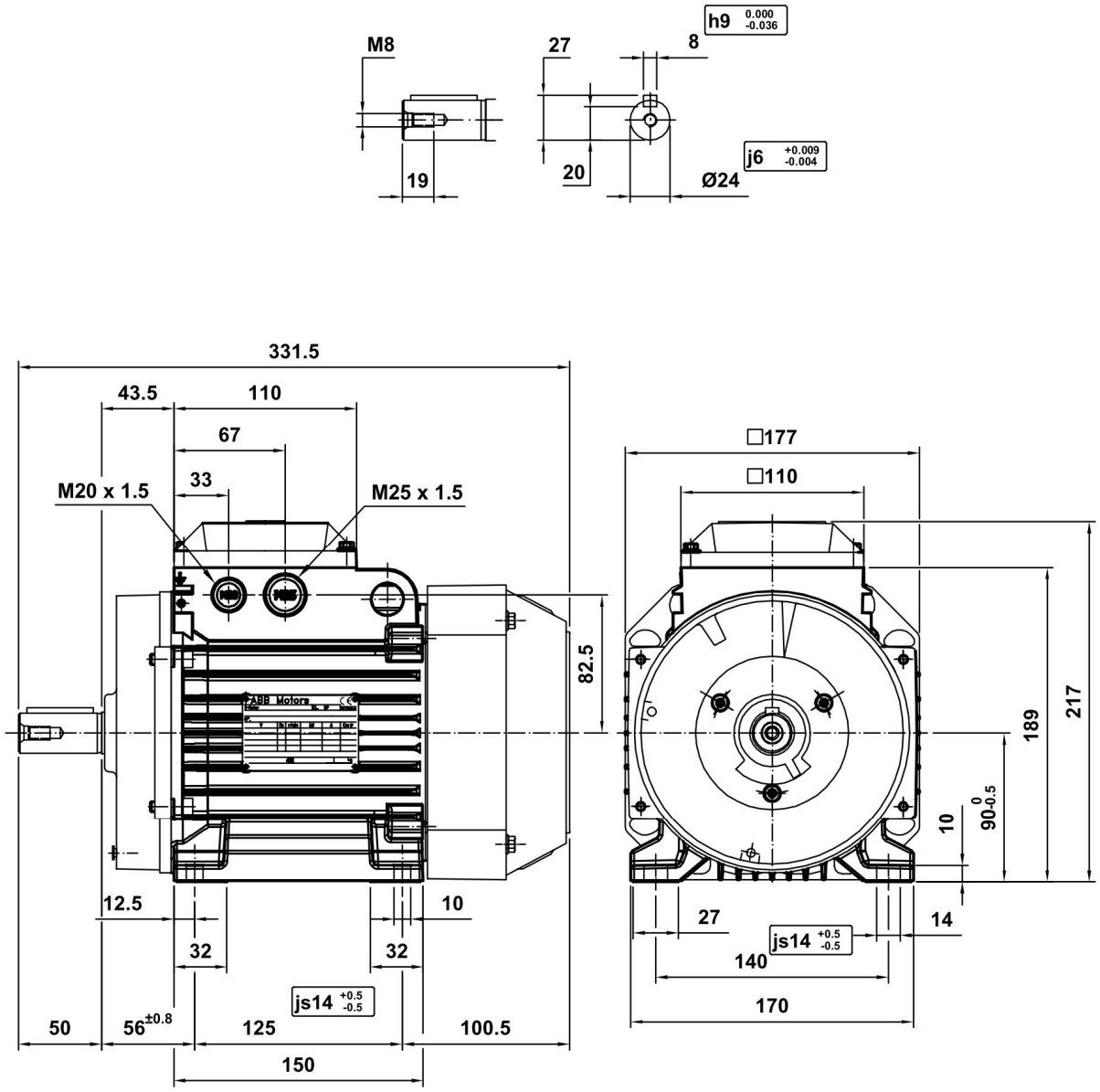
ABB MOTORS AND GENERATORS

Motor data sheet

M3AA 90LD 4

Definition	Data	Unit	Remarks
Product code	3GAA092540-**K		
Voltage code	S		
Type/Frame	M3AA 90LD 4		
Design	CENELEC		
Efficiency class	IE3		
Rated output P_N	1.5	kW	
Rated voltage U_N	400	V	± 5 % (IEC 60034-1)
Rated frequency f_N	50	Hz	± 2 % (IEC 60034-1)
Rated speed n_N	1439	r/min	
Rated current I_N	3.2	A	
Starting current I_S/I_N	8.2		
Nominal torque T_N	9.9	Nm	
Locked rotor torque T_l/T_N	3.5		
Maximum torque T_b/T_N	4		
Efficiency - full load 100%	85.3	%	Acc. to IEC 60034-2-1
Efficiency - 75%	84.7	%	
Efficiency - 50%	82.8	%	
Power factor - full load 100%	0.78		
Bearing DE/NDE	6205-2Z/C3 6204-2Z/C3		
Sound pressure level L_{PA} dB	51	dB(A)	+3dB(A)
Moment of inertia J = ¼ GD^2 kgm^2	0.01	kg-m²	
Weight	19	kg	

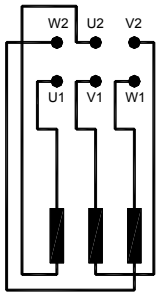
All data subject to tolerances in accordance with IEC. Data subject to changes.



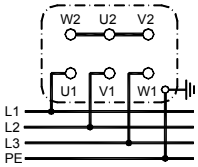
Additional information:

Dimension Print	Motor Type: M3AA (K) 90 B3, B6, B7, B8, V5, V6	Document No: 3GZW500609-20 A 13 AA 90 A
Description: SQUIRREL CAGE MOTOR		
Unit: Motors and Generators Date: 05.01.2017	Issued by: G.Borg Approved by: G.Borg	Replaces: Replaced by:
ABB AB	Customer Reference:	

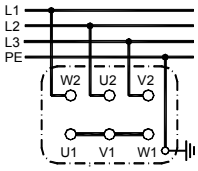
Diagram of connection
Anschluss-Schema
Schema de branchement

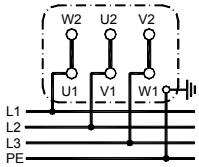


Connection of terminals
Anschluss des Motors
Branchement des bornes

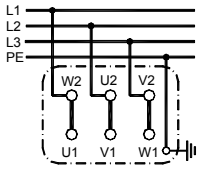


Y-connection
Y-Schaltung
Connection etoile





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

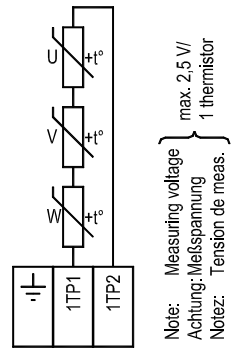
Connection Diagram

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:



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: