Customer information packet

EMM08754-S-AP

M3AA 80ME 4P B3 0.75KW

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Motor data sheet

IEC LV MOTORS

M3AA 80ME 4

Definition	Data	Unit	Remarks
Product code	3GAA082350-**K		CalcId: 3GZF021008-338
Voltage code	S		
Type/Frame	M3AA 80ME 4		
Design	BASIC		
Efficiency class	IE3		IEC 60034-2-1:2007 / GBT1032
Rated output P_N	0.75	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	1749	r/min	
Rated current I_N	1.49	A	
Starting current I_S/I_N	8.3		
Nominal torque T_N	4.1	Nm	
Locked rotor torque T_l/T_N	3.9		
Maximum torque T_b/T_N	4.7		
Efficiency - full load 100%	83.5	%	IEC 60034-2-1:2007 / GBT1032
Efficiency - 75%	82.2	%	
Efficiency - 50%	79.0	%	
Power factor - full load 100%	0.74		
Bearing DE/NDE	6204-2Z/C3 6203-2Z/C3		
Sound pressure level L_{PA} dB	57	dB(A)	+3dB(A)
Moment of inertia J = ¼ GD^2 kgm^2	0.0026	kg-m²	
Weight	14	kg	
Ambient temperature	40	°C	
Motor losses at VSD operating points	**losses in efficiency %**	**losses in Watt**	**losses in relative to nom. power %**
VSD Speed 90% Torque 100%	83.2	136	18.2
VSD Speed 50% Torque 100%	79.2	98	13.1
VSD Speed 25% Torque 100%	68.8	65	11.3
VSD Speed 90% Torque 50%	77.8	96	12.8
VSD Speed 50% Torque 50%	74.2	65	8.7
VSD Speed 50% Torque 25%	62.5	56	7.5
VSD Speed 25% Torque 25%	49.9	47	6.3

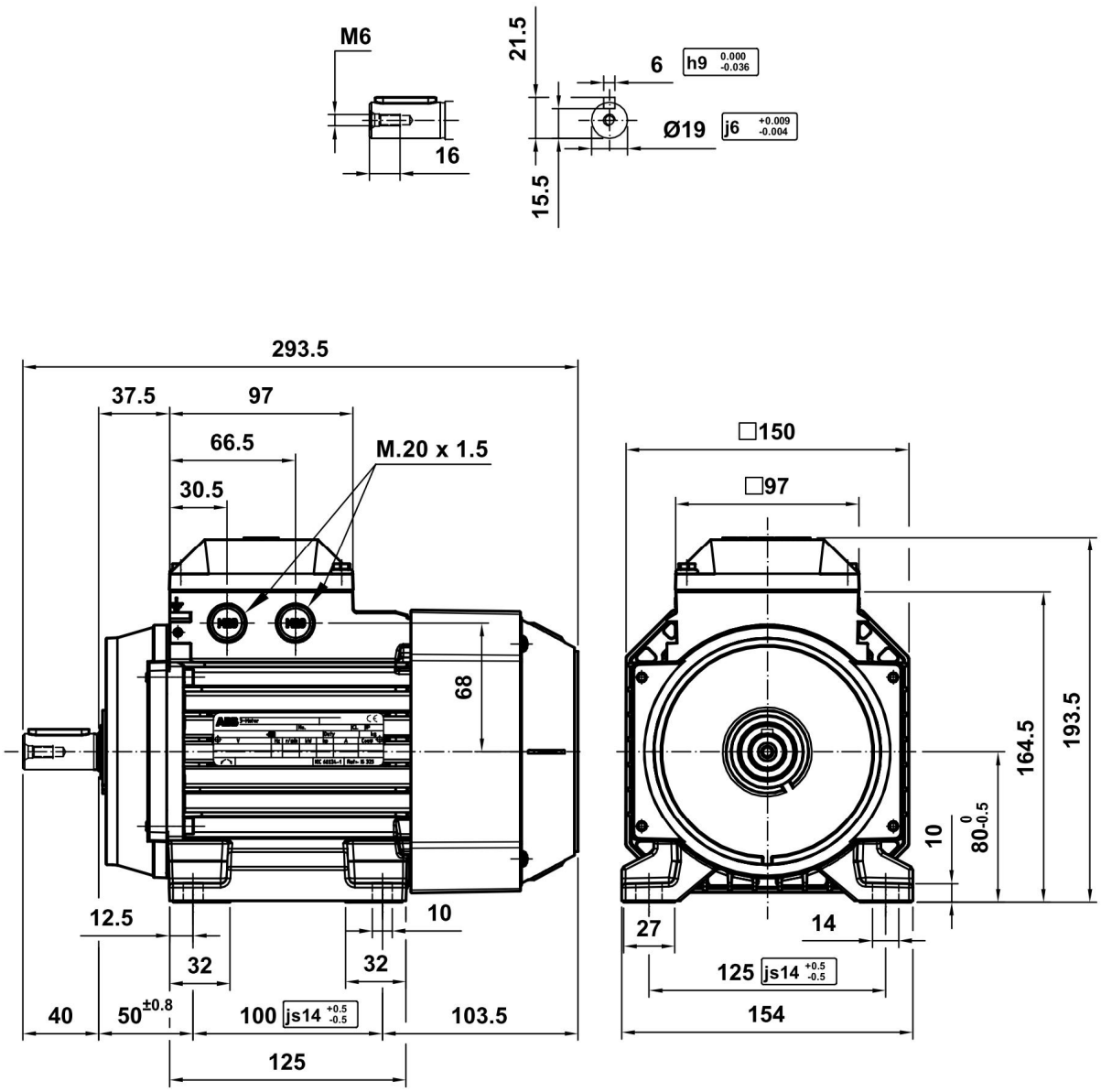
Motor data sheet

IEC LV MOTORS

M3AA 80ME 4

For ordering purposes within selected meps, please add Variant Code 509 Fulfilling US Integral Horsepower Motor Rule (IHP)

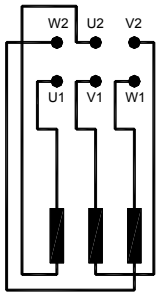
Definition	Data	Unit	Remarks
Product code	3GAA082350-**K		CalcId: 3GZF021008-338
Voltage code	S		
Type/Frame	M3AA 80ME 4		
Design	BASIC		
Efficiency class	IE3		IEC 60034-2-1:2014
Rated output P_N	0.75	kW	
Rated voltage U_N	400	V	± 5 % (IEC 60034-1)
Rated frequency f_N	50	Hz	± 2 % (IEC 60034-1)
Rated speed n_N	1441	r/min	
Rated current I_N	1.67	A	
Starting current I_S/I_N	6.9		
Nominal torque T_N	5	Nm	
Locked rotor torque T_l/T_N	3.5		
Maximum torque T_b/T_N	3.9		
NEMA Nominal Efficiency	85.5	%	
Efficiency - full load 100%	82.5	%	IEC 60034-2-1:2014
Efficiency - 75%	82.9	%	
Efficiency - 50%	80.2	%	
Power factor - full load 100%	0.77		
Bearing DE/NDE	6204-2Z/C3 6203-2Z/C3		
Sound pressure level L_{PA} dB	54	dB(A)	+3dB(A)
Moment of inertia J = ¼ GD^2 kgm^2	0.0026	kg-m²	
Weight	14	kg	
Ambient temperature	40	°C	
Motor losses at VSD operating points	**losses in efficiency %**	**losses in Watt**	**losses in relative to nom. power %**
VSD Speed 90% Torque 100%	81.7	151	20.2
VSD Speed 50% Torque 100%	75.8	120	16.0
VSD Speed 25% Torque 100%	63.4	71	14.4
VSD Speed 90% Torque 50%	77.7	97	12.9
VSD Speed 50% Torque 50%	72.6	71	9.4
VSD Speed 50% Torque 25%	61.6	58	7.8
VSD Speed 25% Torque 25%	48.0	51	6.8



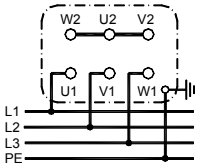
Additional information:

Dimension Print	Motor Type: M3AA (K) 80 ME-4, B3, B6, B7, B8, V5, V6	Document No: 3GZW500608-14 A 13 AA 80 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:	

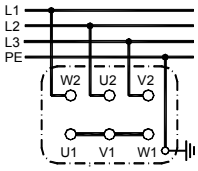
Diagram of connection
Anschluss-Schema
Schema de branchement

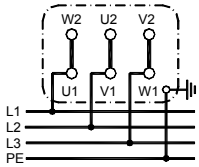


Connection of terminals
Anschluss des Motors
Branchement des bornes

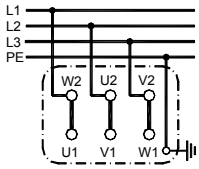


Y-connection
Y-Schaltung
Connection etoile





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: