DATASHEET

Three Phase Induction Motor - Squirrel Cage

GENERAL INFORMATION

Type	V3EA90L2AB3YY	Construction	IM B3	Ambient Temp. [°C]	-20 / +40
Pout [kW]	2,2	Duty	S1	Vibration Class	A
Speed [rpm]	2900	Degree of Protection	IP55	Rotation	CW-CCW
Frame	90L	Cooling Method	IC411	Temperature Class	B
Current [A]	4,5	Insulation Class	F	Altitude above sea [m]	1000
cos ϕ	0,82	Weight [kg]			
Efficiency Class	IE3				

ELECTRICAL DATA (RAW MEASUREMENT DATA)

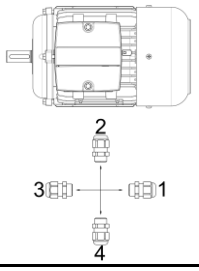
V1	%Load	T [Nm]	I [A]	rpm	P2 [W]	cos ϕ	Efficiency	Hz
400	100	7,2	4,5	2900	2200	0,82	85,9	50
400	75	5,4	3,7	2925	1650	0,77	83,5	50
400	50	3,6	3	2950	1105	0,66	80,2	50

Locked Rotor Current	Ia [A]	38,6	Breakdown Torque	Mk [Nm]	30
	Ia / In	8,58		Mk / Mn	4,17
Locked Rotor Torque	Ma [Nm]	24,2	No Load Current	[A]	2,4
	Ma / Mn	3,36	No Load Power	[W]	170

MECHANICAL DATA

DE Bearing	6205-ZZ	Sound Pressure - 50 Hz - dB[B]	80
NDE Bearing	6205-ZZ	Sound Pressure - 60 Hz - dB[B]	87
Fixed Bearing	YES	Housing Material	Aluminium
Lubrication	-	DE Shield Material	Aluminium
Grease Amount	-	Terminal Box Material	Polyamide
Grease Type	-	Cable Entry	M20
Feather Key	8*7*40	Cable Gland Position	4
Balance	G 1,6 Half Key		

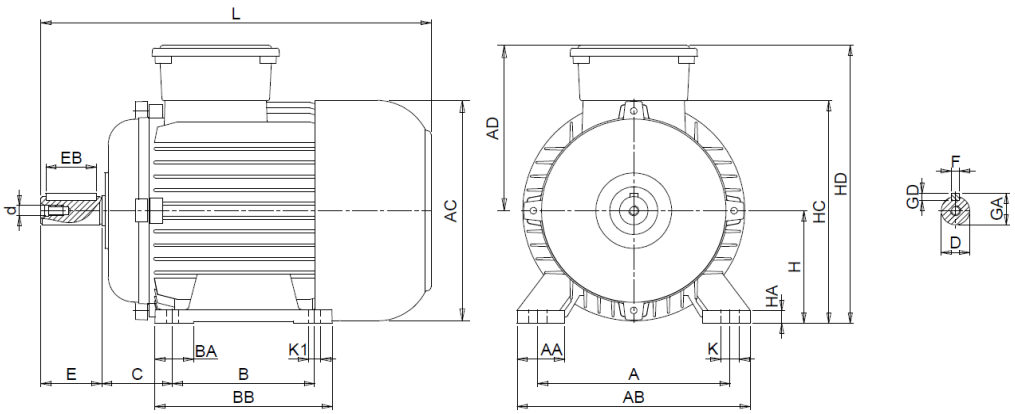
Cable Gland Position



MECHANICAL DIMENSIONS

A	AA*	AB*	AC*	AD*	B	B'*	BA*	BB*	C	D	d	E	EB	F	GA
140	40	180	178	140	125	-	35	155	56	24	M8	50	40	8	27
GD	H	HA*	HC*	HD*	K*	K1	L*	LA*	LB*	M	N	P	S	S1	T
7	90	12	175,5	230	15	10	370**	-	-	-	-	-	-	-	-

**Motor length with plastic fan cover [L]=370 mm.Non standard dimensions[*] for IEC 60072-1 may vary.



Kazim Karabekir Cad. No:84 Kemalpasa 35735 Izmir/Turkey

Tel: +90 (232) 877 10 60 (pbx) Fax: +90 (232) 877 10 59 Email: info@voltmotor.com.tr

www.voltmotor.com.tr/en/

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GENERAL INFORMATION

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Pout [kW]	2,2	Duty	S1	Vibration Class	A
Speed [rpm]	2840	Degree of Protection	IP55	Rotation	CW-CCW
Frame	90L	Cooling Method	IC411	Temperature Class	B
Current [A]	1,6	Insulation Class	F	Altitude above sea [m]	1000
cos ϕ	0,84	Weight [kg]			
Efficiency Class	IE3				

ELECTRICAL DATA (RAW MEASUREMENT DATA)

V1	%Load	T [Nm]	I [A]	rpm	P2 [W]	cos ϕ	Efficiency	Hz
400	100	2,5	1,6	2840	750	0,84	80,7	50
415	100	2,5	1,6	2850	750	0,81	80,6	50
380	100	2,5	1,7	2815	750	0,85	80,2	50

Locked Rotor Current	Ia [A]	9,5	Breakdown Torque	Mk [Nm]	7,8
	Ia / In	5,94		Mk / Mn	3,12
Locked Rotor Torque	Ma [Nm]	7	No Load Current	[A]	0,9
	Ma / Mn	2,80	No Load Power	[W]	86

MECHANICAL DATA

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NDE Bearing	6205-ZZ	Sound Pressure - 60 Hz - dB[B]	87
Fixed Bearing	YES	Housing Material	Aluminium
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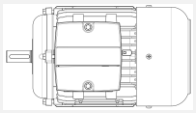
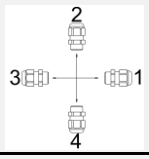
Cable Gland Position





MECHANICAL DIMENSIONS

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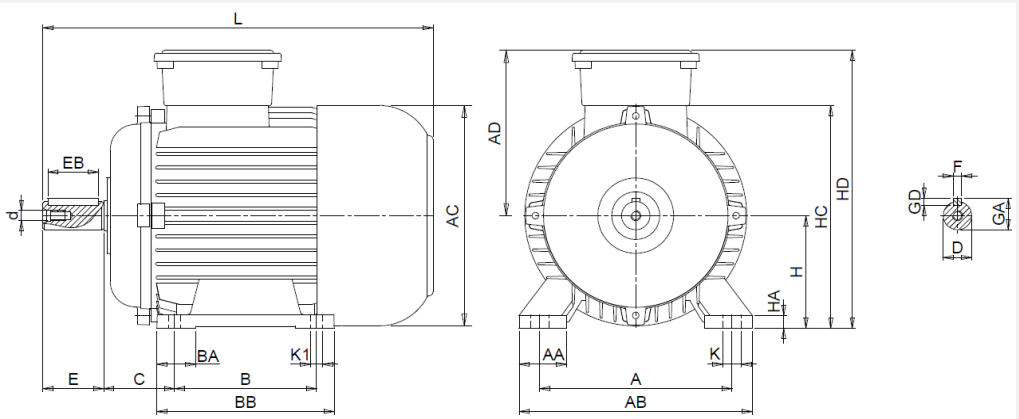

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