DATASHEET

Three Phase Induction Motor - Squirrel Cage

GENERAL INFORMATION

Type	D3EA90L2AB35	Efficiency Class	IE3
Pout [kW]	2,2	Vibration Class	A
Speed [rpm]	2890	Weight [kg]	
Frame	90L	Degree of Protection	IP55
Current [A]	8,3	Cooling Method	IC 411
cos ϕ	0,79	Insulation Class	F
Rotation	CW-CCW	Temperature Class	B
Duty	S1	Construction	IM B35
Ambient Temp. [°C]	-20…+40	Altitude above sea [m]	1000

3~MOT		Type	DM 90L-2					η%
S1		IM B35		IP 55	I.CL.F			IE3 - 85,9
	V	Hz	A	kW	cos ϕ	1 / min	LOAD	EFF.
Δ	230	50	8,3	2,2	0,79	2890	%75	83,5
Y	400	50	4,8	2,2	0,79	2890		
Y	480	60	4,2	2,2	0,78	3472	%50	80,2
Y	480	60	4,8	2,64	0,79	3470		

ELECTRICAL DATA (RAW MEASUREMENT DATA)

V1	%Load	T [Nm]	I [A]	rpm	P2 [W]	cos ϕ	Efficiency	Hz
230	100	7,27	8,3	2890	2200	0,79	85,9	50
230	75	5,4	7,1012	2918	1650	0,7	83,5	50
230	50	3,57	5,8888	2946	1100	0,58	80,2	50

Locked Rotor Current	Ia [A]	41	Breakdown Torque	Mk [Nm]	37
	Ia / In	4,94		Mk / Mn	5,09
Locked Rotor Torque	Ma [Nm]	31	No Load Current	[A]	2,9
	Ma / Mn	4,26	No Load Power	[W]	213

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	NO	Housing Material	Aluminium
Lubrication	-	DE Shield Material	Aluminium
Grease Amount	-	Terminal Box Material	Polyamide
Grease Type	-	Cable Entry	PG 11
Feather Key	8*7*40	Cable Gland Position	4
Balance	G 1,6 Half Key		

MECHANICAL DIMENSIONS

A	AA	AB	AC	AD	B	B'	BA	BB	C	D	d	E	EB	F	GA
140	40,5	33,2	178	-	125	-	33,2	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	177	225	15	10	360	9,8	374,2	165	130	200	12	4	3,5