DATASHEET

Three Phase Induction Motor - Squirrel Cage

GENERAL INFORMATION

Type	D2EA100L2BB34YY	Efficiency Class	IE2
Pout [kW]	4	Vibration Class	A
Speed [rpm]	2880	Weight [kg]	
Frame	100L-C	Degree of Protection	IP55
Current [A]	7,8	Cooling Method	IC 411
cos ϕ	0,87	Insulation Class	F
Rotation	CW-CCW	Temperature Class	B
Duty	S1	Construction	IM B34
Ambient Temp. [°C]	-20…+40	Altitude above sea [m]	1000

USE WITH VARIABLE SPEED DRIVE

ONLY ACC. EU REGULATION 640/2009

3~MOT	Type	DM C 100-2					
							η%
S1	IM B34	IP 55	I.CL.F				IE2 - 85,8

	V	Hz	A	kW	cos ϕ	1 / min	LOAD	EFF.
Y	400	50	7,8	4	0,87	2880	%75	86
Y	480	60	7,8	4,8	0,87	3455		
							%50	85,8

ELECTRICAL DATA (RAW MEASUREMENT DATA)

V1	%Load	T [Nm]	I [A]	rpm	P2 [W]	cos ϕ	Efficiency	Hz
400	100	13,26	7,8	2880	4000	0,87	85,8	50
400	75	9,84	6,2	2920	3010	0,81	86	50
400	50	6,49	5	2950	2005	0,67	85,8	50

Locked Rotor Current	Ia [A]	56,2	Breakdown Torque	Mk [Nm]	30,9
	Ia / In	7,21		Mk / Mn	2,33
Locked Rotor Torque	Ma [Nm]	30,9	No Load Current	[A]	3,8
	Ma / Mn	2,33	No Load Power	[W]	265

MECHANICAL DATA

DE Bearing	6206-ZZ	Sound Pressure - 50 Hz - dB[B]	85
NDE Bearing	6206-ZZ	Sound Pressure - 60 Hz - dB[B]	90
Fixed Bearing	YES	Housing Material	Aluminium
Lubrication	-	DE Shield Material	Aluminium
Grease Amount	-	Terminal Box Material	Polyamide
Grease Type	-	Cable Entry	PG 11
Feather Key	8*7*50	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
160	46	40	197	-	140	-	40	175	63	28	M10	60	50	8	31
GD	**H**	**HA**	**HC**	**HD**	**K**	**K1**	**L**	**LA**	**LB**	**M**	**N**	**P**	**S**	**S1**	**T**
7	100	13	199	247	18	12	372,4	22,4	350	-	-	-	-	-	-