DATASHEET

Three Phase Induction Motor - Squirrel Cage

GENERAL INFORMATION

Type	D3EA100L2AB35	Efficiency Class	IE3
Pout [kW]	3	Vibration Class	A
Speed [rpm]	2910	Weight [kg]	
Frame	100L	Degree of Protection	IP55
Current [A]	10,2	Cooling Method	IC 411
cos ϕ	0,85	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 100-2					η%
S1		IM B35		IP 55	I.CL.F			IE3 - 87,1
	V	Hz	A	kW	cos ϕ	1 / min	LOAD	EFF.
Δ	230	50	10,2	3	0,85	2910	%75	84,6
Y	400	50	5,9	3	0,85	2910		
Y	460	60	5,2	3	0,84	3508	%50	86,8
Y	480	60	5,9	3,6	0,84	3495		

ELECTRICAL DATA (RAW MEASUREMENT DATA)

V1	%Load	T [Nm]	I [A]	rpm	P2 [W]	cos ϕ	Efficiency	Hz
230	100	9,85	10,2	2910	3000	0,85	87,1	50
230	75	7,33	8,1404	2933	2250	0,82	84,6	50
230	50	4,85	6,2352	2956	1500	0,7	86,8	50

Locked Rotor Current	Ia [A]	47,2	Breakdown Torque	Mk [Nm]	46
	Ia / In	4,63		Mk / Mn	4,67
Locked Rotor Torque	Ma [Nm]	38	No Load Current	[A]	2,4
	Ma / Mn	3,86	No Load Power	[W]	174

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	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*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	45,6	40	197	-	140	-	40	174	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	197	245	18	12	390,5	13	377,5	215	180	250	14,5	4	4