DATASHEET

Three Phase Induction Motor - Squirrel Cage

GENERAL INFORMATION

Type	D3EA100L4AB34	Efficiency Class	IE3
Pout [kW]	2,2	Vibration Class	A
Speed [rpm]	1445	Weight [kg]	
Frame	100L	Degree of Protection	IP55
Current [A]	8,5	Cooling Method	IC 411
cos ϕ	0,76	Insulation Class	F
Rotation	CW-CCW	Temperature Class	B
Duty	S1	Construction	IM B34
Ambient Temp. [°C]	-20…+40	Altitude above sea [m]	1000

3~MOT		Type	DM 100-4					η%
S1		IM B34		IP 55	I.CL.F			IE3 - 86,7
	V	Hz	A	kW	cos ϕ	1 / min	LOAD	EFF.
Δ	230	50	8,5	2,2	0,76	1445	%75	85,1
Y	400	50	4,9	2,2	0,76	1445		
Y	460	60	4,3	2,2	0,75	1740	%50	82,5
Y	480	60	4,9	2,64	0,75	1738		

ELECTRICAL DATA (RAW MEASUREMENT DATA)

V1	%Load	T [Nm]	I [A]	rpm	P2 [W]	cos ϕ	Efficiency	Hz
230	100	14,54	8,5	1445	2200	0,76	86,7	50
230	75	10,81	7,2744	1458	1650	0,67	85,1	50
230	50	7,12	6,2352	1475	1100	0,54	82,5	50

Locked Rotor Current	Ia [A]	39,6	Breakdown Torque	Mk [Nm]	67,5
	Ia / In	4,66		Mk / Mn	4,64
Locked Rotor Torque	Ma [Nm]	55,3	No Load Current	[A]	3,2
	Ma / Mn	3,80	No Load Power	[W]	183

MECHANICAL DATA

DE Bearing	6206-ZZ	Sound Pressure - 50 Hz - dB[B]	75
NDE Bearing	6206-ZZ	Sound Pressure - 60 Hz - dB[B]	76
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	43,7	346,8	-	-	-	-	-	-