DATASHEET

Three Phase Induction Motor - Squirrel Cage

GENERAL INFORMATION

Type	D2EA160M6AB35	Efficiency Class	IE2
Pout [kW]	7,5	Vibration Class	A
Speed [rpm]	975	Weight [kg]	
Frame	160M	Degree of Protection	IP55
Current [A]	16	Cooling Method	IC 411
cos ϕ	0,76	Insulation Class	F
Rotation	CW-CCW	Temperature Class	B
Duty	S1	Construction	IM B35
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 160M-6					
S1	IM B35	IP 55	I.CL.F			η%	
	V	Hz	A	kW	cos ϕ	1 / min	LOAD	EFF.
Δ	400	50	16	7,5	0,76	975	%75	86,8
Δ	480	60	16	9	0,75	1170	%50	84,6

IE2 - 87,2

ELECTRICAL DATA (RAW MEASUREMENT DATA)

V1	%Load	T [Nm]	I [A]	rpm	P2 [W]	cos ϕ	Efficiency	Hz
400	100	73,46	16	975	7500	0,76	87,2	50
400	75	54,93	13,6	978	5625	0,69	86,8	50
400	50	36,28	11,9	987	3750	0,54	84,6	50

Locked Rotor Current	Ia [A]	98,8	Breakdown Torque	Mk [Nm]	264,6
	Ia / In	6,18		Mk / Mn	3,60
Locked Rotor Torque	Ma [Nm]	174,5	No Load Current	[A]	10,2
	Ma / Mn	2,38	No Load Power	[W]	479

MECHANICAL DATA

DE Bearing	6309-ZZ	Sound Pressure - 50 Hz - dB[B]	84
NDE Bearing	6309-ZZ	Sound Pressure - 60 Hz - dB[B]	87
Fixed Bearing	YES	Housing Material	Aluminium
Lubrication	-	DE Shield Material	Aluminium
Grease Amount	-	Terminal Box Material	Aluminium
Grease Type	-	Cable Entry	M32
Feather Key	12*8*90	Cable Gland Position	4
Balance	G 2,5 Half Key		

MECHANICAL DIMENSIONS

A	AA	AB	AC	AD	B	B'	BA	BB	C	D	d	E	EB	F	GA
254	72	51,6	306	-	210	-	51,6	264	108	42	M16	110	90	12	45

GD	H	HA	HC	HD	K	K1	L	LA	LB	M	N	P	S	S1	T
8	160	22,15	320	396,9	29,8	14,5	601	18,5	582,5	300	250	350	18,5	4	5