DATASHEET

Three Phase Induction Motor - Squirrel Cage

GENERAL INFORMATION

Type	D2EA180M4AB3YY	Efficiency Class	IE2
Pout [kW]	18,5	Vibration Class	A
Speed [rpm]	1472	Weight [kg]	
Frame	180M	Degree of Protection	IP55
Current [A]	38,4	Cooling Method	IC 411
cos ϕ	0,76	Insulation Class	F
Rotation	CW-CCW	Temperature Class	B
Duty	S1	Construction	IM B3
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 180-4					
							η%
S1	IM B3	IP 55	I.CL.F				IE2 - 91,2
	V	Hz	A	kW	cos ϕ	1 / min	LOAD / EFF.
Δ	400	50	38,4	18,5	0,76	1472	%75 / 90,5
Δ	480	60	38,4	22,2	0,76	1766	%50 / 89,8

ELECTRICAL DATA (RAW MEASUREMENT DATA)

V1	%Load	T [Nm]	I [A]	rpm	P2 [W]	cos ϕ	Efficiency	Hz
400	100	120,02	38,4	1472	18500	0,76	91,2	50
400	75	89,59	31,57	1479	13875	0,7	90,5	50
400	60	59,45	26,83	1486	9250	0,56	88,9	50

Locked Rotor Current	Ia [A]	369,3	Breakdown Torque	Mk [Nm]	549
	Ia / In	9,62		Mk / Mn	4,57
Locked Rotor Torque	Ma [Nm]	297	No Load Current	[A]	22,13
	Ma / Mn	2,47	No Load Power	[W]	985

MECHANICAL DATA

DE Bearing	6310-ZZ	Sound Pressure - 50 Hz - dB[B]	89
NDE Bearing	6210-ZZ	Sound Pressure - 60 Hz - dB[B]	92
Fixed Bearing	YES	Housing Material	Aluminium
Lubrication	-	DE Shield Material	Cast Iron
Grease Amount	-	Terminal Box Material	Aluminium
Grease Type	-	Cable Entry	M32
Feather Key	14*9*100	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
279	73,5	63	345	-	241	-	63	291	121	48	M16	110	100	14	51,5

GD	H	HA	HC	HD	K	K1	L	LA	LB	M	N	P	S	S1	T
9	180	25	357,9	434,8	37,5	14,5	670,5	-	-	-	-	-	-	-	-