

GENERAL INFORMATION

Type	D3EA90S4AB35YY	Efficiency Class	IE3
Pout [kW]	1,1	Vibration Class	A
Speed [rpm]	1450	Weight [kg]	
Frame	90S	Degree of Protection	IP55
Current [A]	4,7	Cooling Method	IC 411
cos φ	0,70	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 90S-4			η%	
S1		IM B35		IP 55		I.C.L.F.		IE3 - 84,1
V	Hz	A	kW	cos φ	1 / min	LOAD	EFF.	
Δ 230	50	4,7	1,1	0,70	1450	%75	83,6	
Y 400	50	2,7	1,1	0,70	1450			
Y 460	60	2,3	1,1	0,70	1742	%50	80,1	
Y 480	60	2,7	1,32	0,70	1740			

ELECTRICAL DATA (RAW MEASUREMENT DATA)

V1	%Load	T [Nm]	I [A]	rpm	P2 [W]	cos φ	Efficiency	Hz
400	100	7,24	2,7	1450	1100	0,7	84,1	50
400	75	5,4	2,3	1460	825	0,62	83,6	50
400	50	3,56	2,1	1475	550	0,47	80,1	50

Locked Rotor Current	Ia [A]	17,43	Breakdown Torque	Mk [Nm]	24
	Ia / In	3,71		Mk / Mn	3,31
Locked Rotor Torque	Ma [Nm]	21,4	No Load Current	[A]	1,9
	Ma / Mn	2,95	No Load Power	[W]	140

MECHANICAL DATA

DE Bearing	6205-ZZ	Sound Pressure - 50 Hz - dB[B]	75
NDE Bearing	6205-ZZ	Sound Pressure - 60 Hz - dB[B]	76
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*40	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
140	40,1	34	178	-	100	-	34	130	56	24	M8	50	40	8	27
GD	H	HA	HC	HD	K	K1	L	LA	LB	M	N	P	S	S1	T
7	90	13,1	177	225	16,26	10	338	10	328	165	130	200	12	4	3,5

