

GENERAL INFORMATION

Type	D3EG280M4AB3	Efficiency Class	IE3
Pout [kW]	90	Vibration Class	A
Speed [rpm]	1483	Weight [kg]	
Frame	280M	Degree of Protection	IP55
Current [A]	160	Cooling Method	IC 411
cos φ	0,85	Insulation Class	F
Rotation	CW-CCW	Temperature Class	B
Duty	S1	Construction	IM B3
Ambient Temp. [°C]	-20...+40	Altitude above sea [m]	1000

3~MOT		Type		DM 280M-4			η%	
S1		IM B3		IP 55		I.C.L.F.		IE3 - 95,2
	V	Hz	A	kW	cos φ	1 / min	LOAD	EFF.
Δ	400	50	160	90	0,85	1483	%75	95,2
Y	690	50	92,5	90	0,85	1483		
Δ	460	60	141	90	0,84	1785	%50	95
Δ	480	60	160	108	0,85	1783		

ELECTRICAL DATA (RAW MEASUREMENT DATA)

V1	%Load	T [Nm]	I [A]	rpm	P2 [W]	cos φ	Efficiency	Hz
400	100	579,57	160	1483	90000	0,85	95,2	50
400	75	433,51	126	1487	67500	0,81	95,2	50
400	50	288,04	94	1492	45000	0,73	95	50

Locked Rotor Current	Ia [A]	1220	Breakdown Torque	Mk [Nm]	1590
	Ia / In	7,63		Mk / Mn	2,74
Locked Rotor Torque	Ma [Nm]	1450	No Load Current	[A]	56,5
	Ma / Mn	2,50	No Load Power	[W]	1692

MECHANICAL DATA

DE Bearing	6316-ZZ	Sound Pressure - 50 Hz - dB[B]	101
NDE Bearing	6316-ZZ	Sound Pressure - 60 Hz - dB[B]	104
Fixed Bearing	YES	Housing Material	Cast Iron
Lubrication	Optional	DE Shield Material	Cast Iron
Grease Amount	30 gr	Terminal Box Material	Aluminium
Grease Type	POLYREX EM	Cable Entry	M50
Feather Key	20*12*125	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
457	120	85	545	-	419	386	85	474	190	75	M20	140	125	20	79,5
GD	H	HA	HC	HD	K	K1	L	LA	LB	M	N	P	S	S1	T
12	280	40	530	629,9	24	24	970	-	-	-	-	-	-	-	-

