

ELECTRIC MOTOR TEST REPORT - THREE PHASE INDUCTION MOTOR

Type	7SM3 225M-4 IE3	Poles	4	Power	45,0	kW
Voltage	400 V	Current	80,2 A	Frequenc	50	Hz
Speed	1480 r/min	Duty	S1	Connecti	△	
Ins. class	F	Weight	342 kg		IP55	
MAJOR CONTENTS		TEST VALUE	STANDARD VALUE	CONCLUSION		
95,0 °C	PHASE RESISTANCE OF WINDIN	Ω	0,1367			
	NO LOAD CURRENT	A	25,590			
	NO LOAD INPUT	W	894,91			
	CORE LOSS (Pfe)	W	546,43			
	WINDAGE FRICTION LOSS (Pfw)	W	265,71			
	STATOR WINDING LOSS (Pcu1)	W	866,64			
	ROTOR WINDING LOSS (Pcu2)	W	555,84			
	STRAY LOAD LOSS (Ps)	W	499,31			
	LOCKED ROTOR CURRENT	A	564,945			
	LOCKED ROTOR INPUT @ FULL LOAD	W	157457			
	LOCKED ROTOR TORQUE	N. m	634,7			
	PULL OUT TORQUE	N. m	822,1			
	LOCKED ROTOR CURRENT/RATED CURRENT	P. U	7,04			
	LOCKED ROTOR TORQUE/RATED TORQUE	P. U	2,18			
	PULL OUT TORQUE/RATED TORQUE	P. U	2,83			
	FULL LOAD TORQUE	N. m	290,1			
	FULL LOAD CURRENT	A	79,7			
	FULL LOAD SLIP	%	1,200			
	INPUT @ FULL LOAD	kW	47,740			
	FULL LOAD SPEED	r/min	1482,0			
	EFFICIENCY @ FULL LOAD	%	94,20			
	EFFICIENCY @ 75% LOAD	%	94,30			
	POWER FACTOR @ FULL LOAD		0,865			
	STATOR WINDING TEMPERATURE RISE	K	68			
	D. E. BEARINGS TEMPERATURE BY PT100	°C	60,3			
	STATOR WINDING TEMPERATURE	°C	82,1			
	High voltage test	V	1800	Imin		
	Insulation resistance	MΩ	500			
	NOISE (LW)	dB (A)	76			
	VIBRATION	mm/s	0,9			