

ELECTRIC MOTOR TEST REPORT - THREE PHASE INDUCTION MOTOR

Type	7SM3250M-2 IE3	Poles	2	Power	55,0	kW
Voltage	400 V	Current	94,1 A	Frequenc	50	Hz
Speed	2972 r/min	Duty	S1	Connecti	△	
Ins. class	F	Weight	483 kg		IP55	
MAJOR CONTENTS			TEST VALUE	STANDARD VALUE	CONCLUSION	
95,0 °C	PHASE RESISTANCE OF WINDIN	Ω	0,0865			
	NO LOAD CURRENT	A	25,848			
	NO LOAD INPUT	W	1433,05			
	CORE LOSS (Pfe)	W	495,52			
	WINDAGE FRICTION LOSS (Pfw)	W	888,14			
	STATOR WINDING LOSS (Pcu1)	W	705,68			
	ROTOR WINDING LOSS (Pcu2)	W	525,31			
	STRAY LOAD LOSS (Ps)	W	608,55			
	LOCKED ROTOR CURRENT	A	754,579			
	LOCKED ROTOR INPUT @ FULL LOAD	W	193143			
	LOCKED ROTOR TORQUE	N. m	434,8			
	PULL OUT TORQUE	N. m	565,6			
	LOCKED ROTOR CURRENT/RATED CURRENT	P. U	8,02			
	LOCKED ROTOR TORQUE/RATED TORQUE	P. U	2,46			
	PULL OUT TORQUE/RATED TORQUE	P. U	3,20			
	FULL LOAD TORQUE	N. m	176,8			
	FULL LOAD CURRENT	A	94,1			
	FULL LOAD SLIP	%	0,921			
	INPUT @ FULL LOAD	kW	58,225			
	FULL LOAD SPEED	r/min	2972,4			
	EFFICIENCY @ FULL LOAD	%	94,30			
	EFFICIENCY @ 75% LOAD	%	94,10			
	POWER FACTOR @ FULL LOAD		0,893			
	STATOR WINDING TEMPERATURE RISE	K	41			
	D. E. BEARINGS TEMPERATURE BY PT100	°C	30,4			
	STATOR WINDING TEMPERATURE	°C	59,2			
	High voltage test	V	1800	Imin		
	Insulation resistance	MΩ	500			
	NOISE (LW)	dB(A)	87			
	VIBRATION	mm/s	0,9			