

## ELECTRIC MOTOR TEST REPORT - THREE PHASE INDUCTION MOTOR

Type	7SM3 180M 4 IE3	Poles	4	Power	18,5	kW
Voltage	400 V	Current	32,7 A	Frequenc	50	Hz
Speed	1476 r/min	Duty	S1	Connecti	△	
Ins. class	F	Weight	185 kg		IP55	
MAJOR CONTENTS		TEST VALUE	STANDARD VALUE	CONCLUSION		
95,0 °C	PHASE RESISTANCE OF WINDIN	Ω	0,3926			
	NO LOAD CURRENT	A	15,031			
	NO LOAD INPUT	W	673,17			
	CORE LOSS (Pfe)	W	452,22			
	WINDAGE FRICTION LOSS (Pfw)	W	139,53			
	STATOR WINDING LOSS (Pcu1)	W	406,17			
	ROTOR WINDING LOSS (Pcu2)	W	310,32			
	STRAY LOAD LOSS (Ps)	W	183,73			
	LOCKED ROTOR CURRENT	A	257,140			
	LOCKED ROTOR INPUT @ FULL LOAD	W	80058			
	LOCKED ROTOR TORQUE	N. m	295,7			
	PULL OUT TORQUE	N. m	348,2			
	LOCKED ROTOR CURRENT/RATED CURRENT	P. U	7,85			
	LOCKED ROTOR TORQUE/RATED TORQUE	P. U	2,47			
	PULL OUT TORQUE/RATED TORQUE	P. U	2,91			
	FULL LOAD TORQUE	N. m	119,8			
	FULL LOAD CURRENT	A	32,7			
	FULL LOAD SLIP	%	1,622			
	INPUT @ FULL LOAD	kW	19,996			
	FULL LOAD SPEED	r/min	1475,7			
	EFFICIENCY @ FULL LOAD	%	92,60			
	EFFICIENCY @ 75% LOAD	%	92,70			
	POWER FACTOR @ FULL LOAD		0,882			
	STATOR WINDING TEMPERATURE RISE	K	56			
	D. E. BEARINGS TEMPERATURE BY PT100	°C	57,6			
	STATOR WINDING TEMPERATURE	°C	78,3			
	High voltage test	V	1800	Imin		
	Insulation resistance	MΩ	500			
	NOISE (LW)	dB (A)	76			
	VIBRATION	mm/s	0,9			