

DATA SHEET



Single Phase Induction Motor - Squirrel Cage

Customer :					
Product line		: Rolled Steel Grain Dryer Single-Phase		Product code : 13972797	
Frame	:	143/5TZ	Locked rotor time	: 16s (cold) 9s (hot)	
Output	:	1.5 HP (1.1 kW)	Temperature rise	: 105 K	
Frequency	:	60 Hz	Duty cycle	: Cont.(S1)	
Rated voltage	:	230 V	Ambient temperature	: -20°C to +40°C	
Poles	:	2	Altitude	: 1000 m.a.s.l.	
Rated current	:	7.51 A	Protection degree	: IP55	
	:	12.2x(Code R)	Cooling method	: IC418 - TEAO	
Rated speed	:	3550 rpm	Mounting	: F-3	
Rated torque	:	0.307 kgfm	Rotation ¹	: Both (CW and CCW)	
Insulation class	:	F	Noise level ²	: 68.0 dB(A)	
Service factor	:	1.00	Starting method	: Direct On Line	
			Approx. weight ³	: 18.6 kg	
Output	25%	50%	75%	100%	
Efficiency (%)	53.5	57.6	67.1	73.2	
Power Factor	0.43	0.72	0.80	0.87	
Foundation loads					
Max. traction : 35 kgf					
Max. compression : 54 kgf					
		<u>Drive end</u>	<u>Non drive end</u>		
Bearing type	:	6205 ZZ	6202 ZZ		
Sealing	:	V'Ring	Without Bearing Seal		
Lubrication interval	:	-	-		
Lubricant amount	:	-	-		
Lubricant type	:	Mobil Polyrex EM			
Notes					
This revision replaces and cancel the previous one, which must be eliminated. (1) Looking the motor from the shaft end. (2) Measured at 1m and with tolerance of +3dB(A). (3) Approximate weight subject to changes after manufacturing process. (4) At 100% of full load.			These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA MG-1.		
Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	12/05/2026			1 / 3	

DATA SHEET

Single Phase Induction Motor - Squirrel Cage



Customer : _____

Thermal protection

ID	Application	Type	Quantity	Sensing Temperature
1	Winding	Thermostat - 2 wires	1 x Phase	155 °C

Rev.	Changes Summary	Performed	Checked	Date
Performed by				
Checked by			Page	Revision
Date	12/05/2026		2 / 3	

LOAD PERFORMANCE CURVE

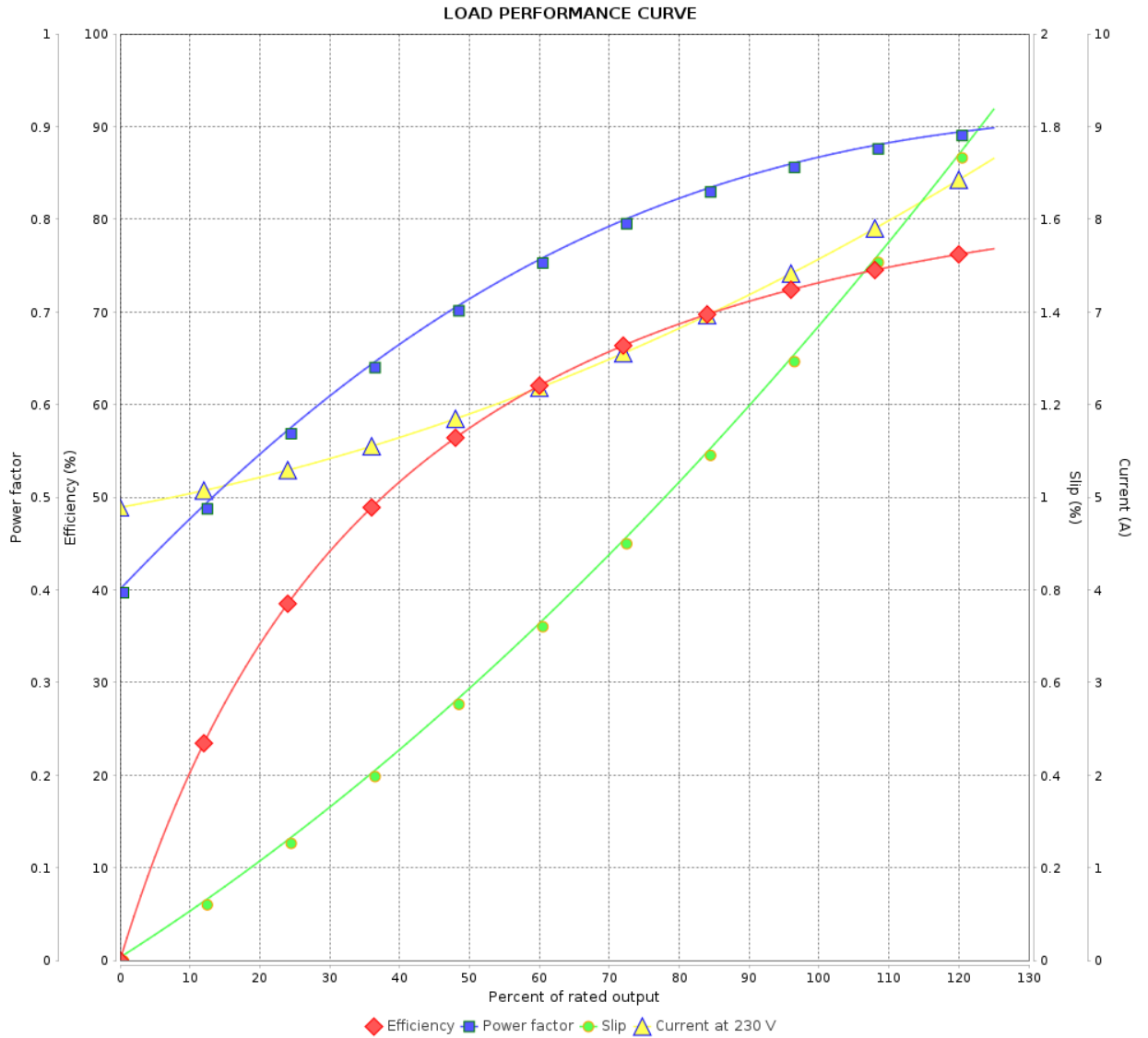
Single Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : Rolled Steel Grain Dryer Single-Phase

Product code : 13972797



Rev.	Changes Summary	Performed	Checked	Date
Performed by		Page		Revision
Checked by		3 / 3		
Date		12/05/2026		