

DATA SHEET



Single Phase Induction Motor - Squirrel Cage

Customer :					
Product line		: General Single-Phase		Product code : 12235450	
Frame	: G143/5TC		Locked rotor time	: 10s (cold) 6s (hot)	
Output	: 3 HP (2.2 kW)		Temperature rise	: 105 K	
Poles	: 2		Duty cycle	: Cont.(S1)	
Frequency	: 60 Hz		Ambient temperature	: -20°C to +40°C	
Rated voltage	: 115/208-230 V		Altitude	: 1000 m.a.s.l.	
Rated current	: 26.0/14.0-13.0 A		Protection degree	: IP55	
L. R. Amperes	: 203/109-101 A		Cooling method	: IC411 - TEFC	
LRC	: 7.8x(Code J)		Mounting	: F-1	
No load current	: 9.00/3.88-4.50 A		Rotation ¹	: Both (CW and CCW)	
Rated speed	: 3480 rpm		Noise level ²	: 60.0 dB(A)	
Slip	: 3.33 %		Starting method	: Direct On Line	
Rated torque	: 0.626 kgfm		Approx. weight ³	: 25.9 kg	
Locked rotor torque	: 250 %				
Breakdown torque	: 250 %				
Insulation class	: F				
Service factor	: 1.15				
Moment of inertia (J)	: 0.0040 kgm ²				
Output	50%	75%	100%	Foundation loads	
Efficiency (%)	75.0	79.0	80.0	Max. traction : 31 kgf	
Power Factor	0.82	0.90	0.93	Max. compression : 57 kgf	
		<u>Drive end</u>		<u>Non drive end</u>	
Bearing type	:	6205 ZZ		6203 ZZ	
Sealing	:	Oil Seal		Oil Seal	
Lubrication interval	:	-		-	
Lubricant amount	:	-		-	
Lubricant type	:	Mobil Polyrex EM			
Notes					
<p>This revision replaces and cancel the previous one, which must be eliminated.</p> <p>(1) Looking the motor from the shaft end.</p> <p>(2) Measured at 1m and with tolerance of +3dB(A).</p> <p>(3) Approximate weight subject to changes after manufacturing process.</p> <p>(4) At 100% of full load.</p>			<p>These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA MG-1.</p>		
Rev.	Changes Summary		Performed	Checked	Date
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Date	26/10/2024			1 / 2	

LOAD PERFORMANCE CURVE

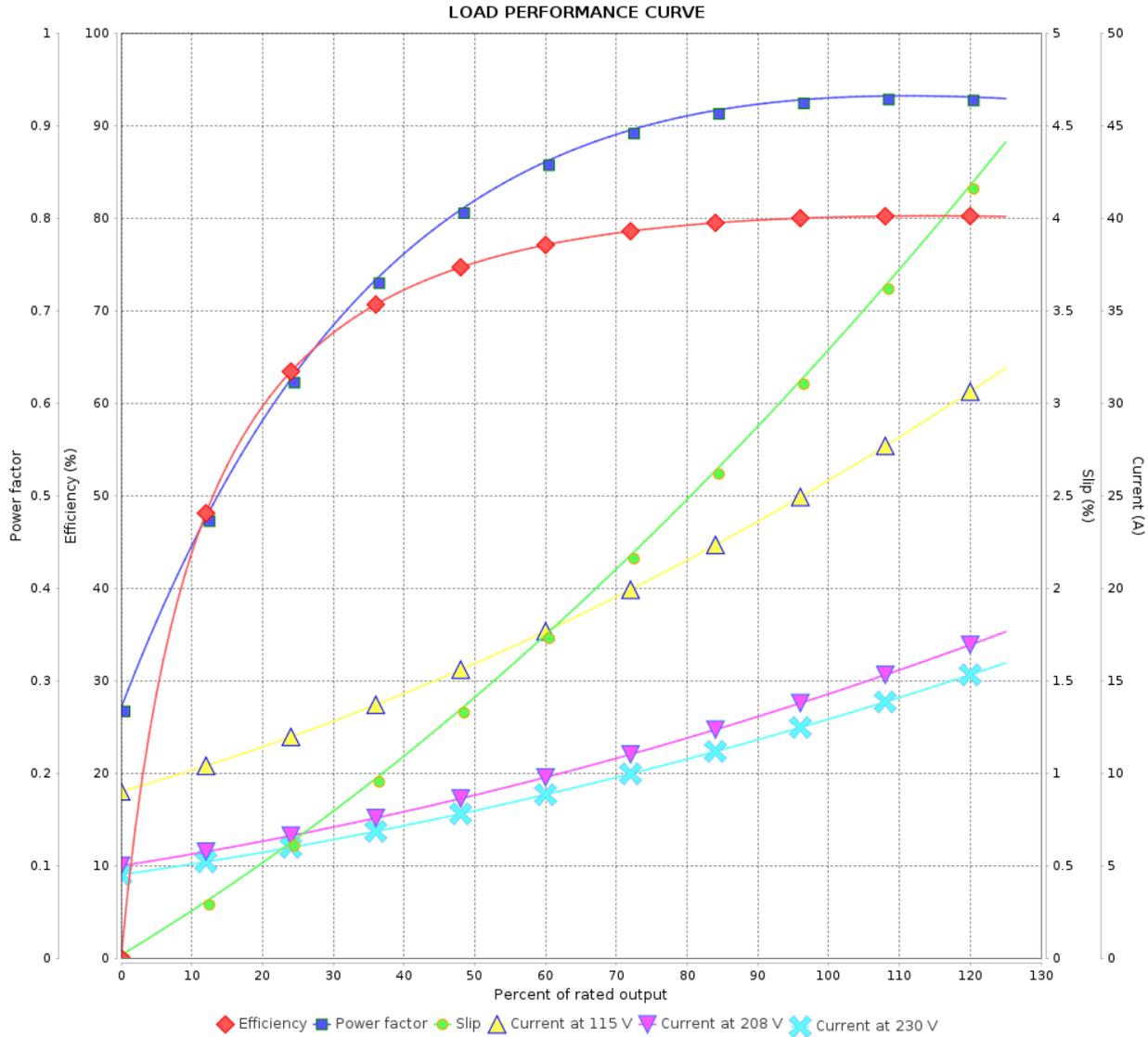
Single Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : General Single-Phase

Product code : 12235450



Performance : 115/208-230 V 60 Hz 2P

Rated current : 26.0/14.0-13.0 A
 LRC : 7.8
 Rated torque : 0.626 kgfm
 Locked rotor torque : 250 %
 Breakdown torque : 250 %
 Rated speed : 3480 rpm

Moment of inertia (J) : 0.0040 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor :
 Temperature rise : 105 K

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