

# DATA SHEET



## Single Phase Induction Motor - Squirrel Cage

Customer :					
Product line : W22 Single-Phase		Product code : 14200102			
Frame	: 182/4TC	Locked rotor time	: 16s (cold) 9s (hot)		
Output	: 3 HP (2.2 kW)	Temperature rise	: 80 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	: 24.4/13.5-12.2 A	Protection degree	: IP55		
L. R. Amperes	: 188/104-93.9 A	Cooling method	: IC411 - TEFC		
LRC	: 7.7x(Code J)	Mounting	: F-1		
No load current	: 8.00/3.45-4.00 A	Rotation <sup>1</sup>	: Both (CW and CCW)		
Rated speed	: 3520 rpm	Noise level <sup>2</sup>	: 72.0 dB(A)		
Slip	: 2.22 %	Starting method	: Direct On Line		
Rated torque	: 0.619 kgfm	Approx. weight <sup>3</sup>	: 44.6 kg		
Locked rotor torque	: 250 %				
Breakdown torque	: 260 %				
Insulation class	: F				
Service factor	: 1.15				
Moment of inertia (J)	: 0.0066 kgm <sup>2</sup>				
Output	50%	75%	100%	Foundation loads	
Efficiency (%)	80.0	83.0	84.0	Max. traction : 11 kgf	
Power Factor	0.92	0.93	0.93	Max. compression : 56 kgf	
		<u>Drive end</u>		<u>Non drive end</u>	
Bearing type	:	6207 ZZ		6206 ZZ	
Sealing	:	V'Ring		V'Ring	
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.		
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# LOAD PERFORMANCE CURVE

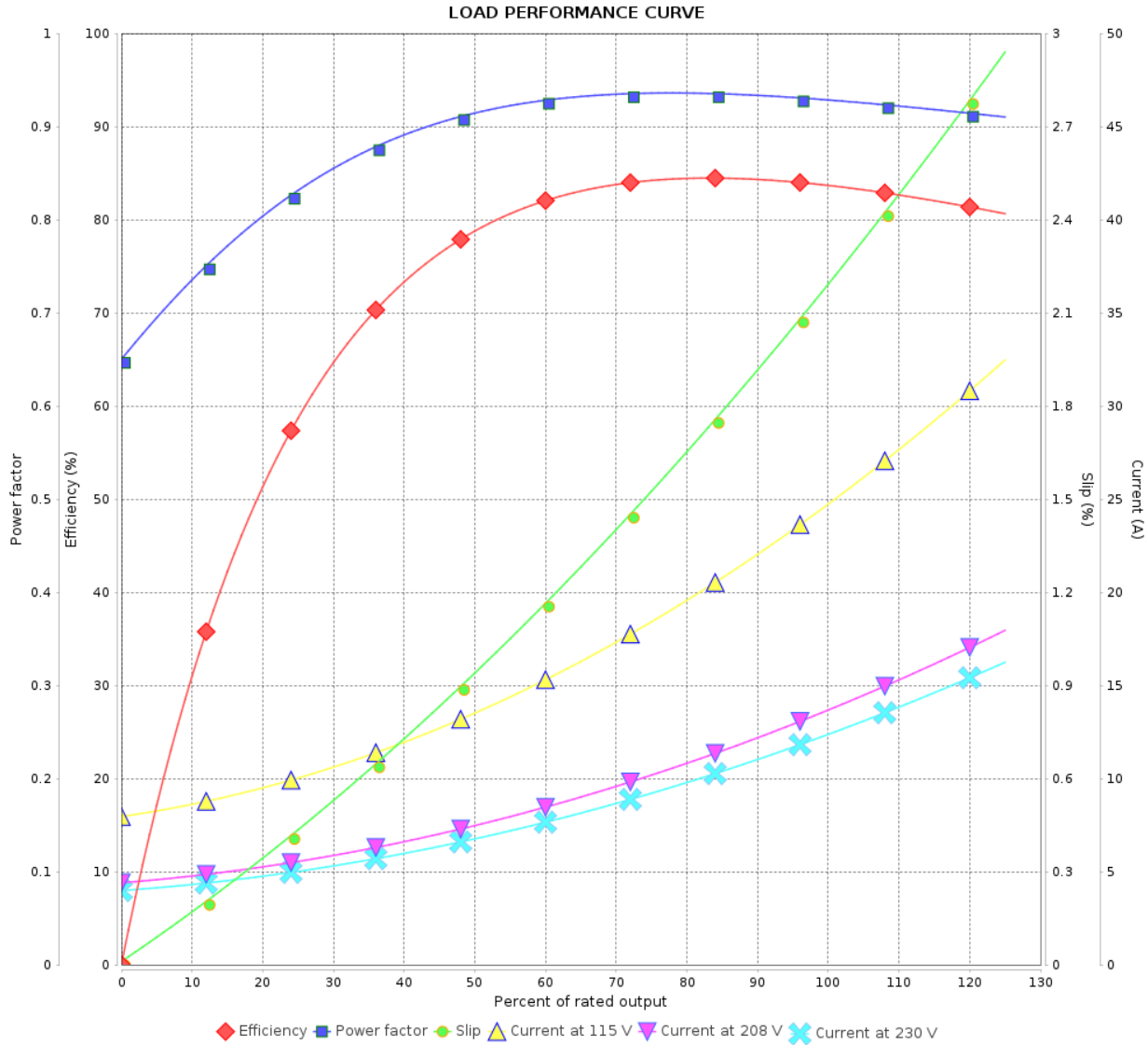
Single Phase Induction Motor - Squirrel Cage



Customer : \_\_\_\_\_

Product line : W22 Single-Phase

Product code : 14200102



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

Rated current : 24.4/13.5-12.2 A  
 LRC : 7.7  
 Rated torque : 0.619 kgfm  
 Locked rotor torque : 250 %  
 Breakdown torque : 260 %  
 Rated speed : 3520 rpm

Moment of inertia (J) : 0.0066 kgm<sup>2</sup>  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor :  
 Temperature rise : 80 K

Rev.	Changes Summary	Performed	Checked	Date
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Date	15/01/2024			