

# DATA SHEET



## Single Phase Induction Motor - Squirrel Cage

Customer :						
Product line : W22 Single-Phase			Product code : 14103294			
Frame	: 182/4T		Locked rotor time	: 12s (cold) 7s (hot)		
Output	: 5 HP (3.7 kW)		Temperature rise	: 80 K		
Poles	: 4		Duty cycle	: Cont.(S1)		
Frequency	: 60 Hz		Ambient temperature	: -20°C to +40°C		
Rated voltage	: 208-230/460 V		Altitude	: 1000 m.a.s.l.		
Rated current	: 23.0-21.4/10.7 A		Protection degree	: IP55		
L. R. Amperes	: 150-139/69.5 A		Cooling method	: IC411 - TEFC		
LRC	: 6.5x(Code H)		Mounting	: F-1		
No load current	: 6.90-8.00/4.00 A		Rotation <sup>1</sup>	: Both (CW and CCW)		
Rated speed	: 1730 rpm		Noise level <sup>2</sup>	: 60.0 dB(A)		
Slip	: 3.89 %		Starting method	: Direct On Line		
Rated torque	: 2.10 kgfm		Approx. weight <sup>3</sup>	: 53.6 kg		
Locked rotor torque	: 330 %					
Breakdown torque	: 235 %					
Insulation class	: F					
Service factor	: 1.15					
Moment of inertia (J)	: 0.0184 kgm <sup>2</sup>					
Output	25%	50%	75%	100%		
Efficiency (%)	70.8	72.5	78.5	80.0		
Power Factor	0.59	0.89	0.93	0.94		
Foundation loads						
Max. traction : 76 kgf						
Max. compression : 130 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

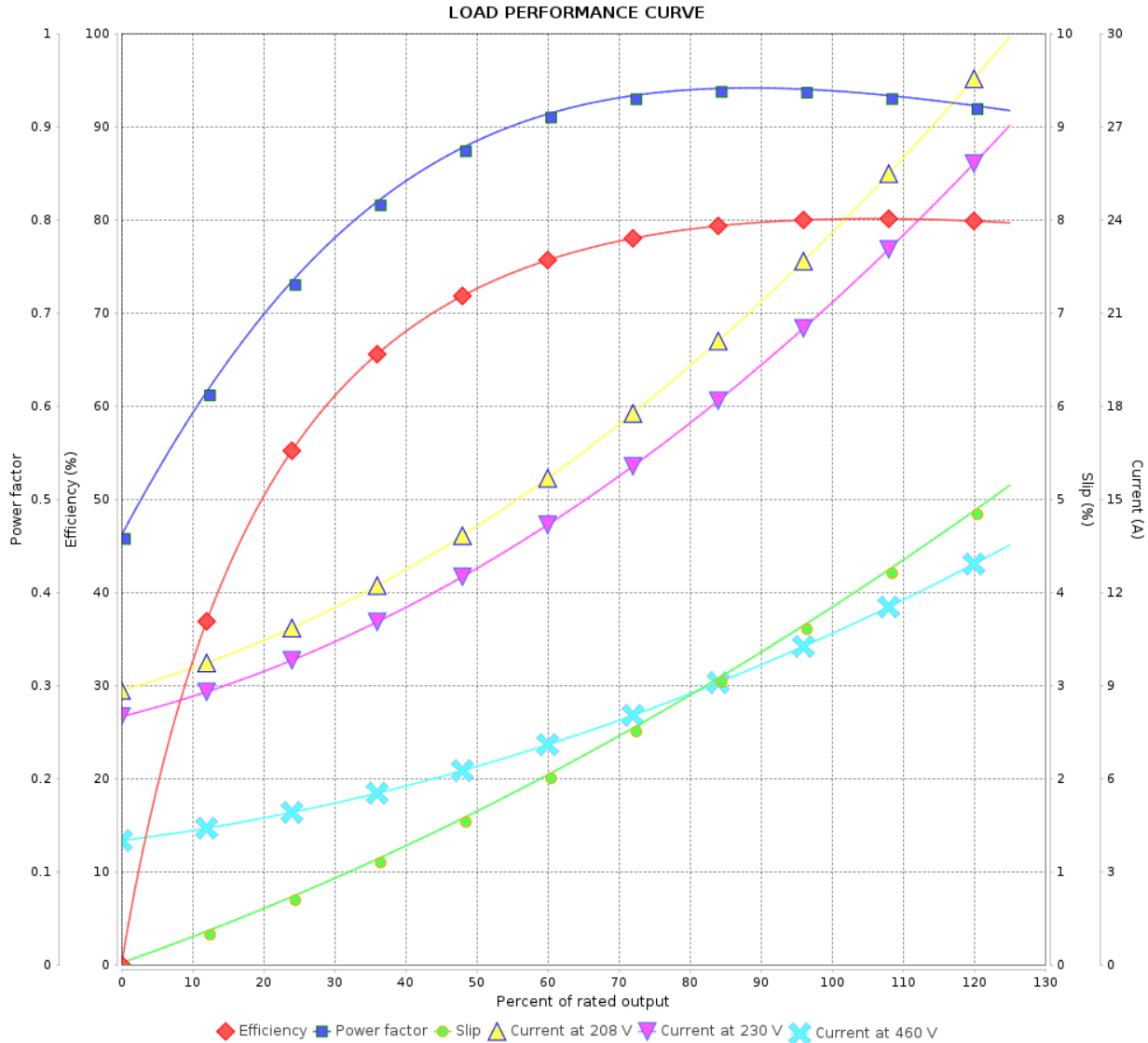
Single Phase Induction Motor - Squirrel Cage



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

Product line : W22 Single-Phase

Product code : 14103294



Performance : 208-230/460 V 60 Hz 4P

Rated current : 23.0-21.4/10.7 A  
 LRC : 6.5  
 Rated torque : 2.10 kgfm  
 Locked rotor torque : 330 %  
 Breakdown torque : 235 %  
 Rated speed : 1730 rpm

Moment of inertia (J) : 0.0184 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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