

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase Product code : 11165996

Frame	: 404/5TS	Locked rotor time	: 25s (cold) 14s (hot)
Output	: 100 HP (75 kW)	Temperature rise	: 80 K
Poles	: 2	Duty cycle	: Cont.(S1)
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 230/460 V	Altitude	: 1000 m.a.s.l.
Rated current	: 224/112 A	Protection degree	: IP55
L. R. Amperes	: 1456/728 A	Cooling method	: IC411 - TEFC
LRC	: 6.5x(Code G)	Mounting	: F-1
No load current	: 52.0/26.0 A	Rotation <sup>1</sup>	: Both (CW and CCW)
Rated speed	: 3545 rpm	Noise level <sup>2</sup>	: 79.0 dB(A)
Slip	: 1.53 %	Starting method	: Direct On Line
Rated torque	: 20.5 kgfm	Approx. weight <sup>3</sup>	: 503 kg
Locked rotor torque	: 240 %		
Breakdown torque	: 260 %		
Insulation class	: F		
Service factor	: 1.25		
Moment of inertia (J)	: 0.5561 kgm <sup>2</sup>		
Design	: B		

Output	25%	50%	75%	100%	Foundation loads	
Efficiency (%)	0.000	93.0	94.1	94.1	Max. traction	: 272 kgf
Power Factor	0.00	0.83	0.88	0.89	Max. compression	: 775 kgf

		Drive end	Non drive end
Bearing type	:	6314 C3	6314 C3
Sealing	:	WSeal	WSeal
Lubrication interval	:	4000 h	4000 h
Lubricant amount	:	27 g	27 g
Lubricant type	:	Mobil Polyrex EM	

Notes  
USABLE @208V 243A SF 1.10 SFA 268A

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

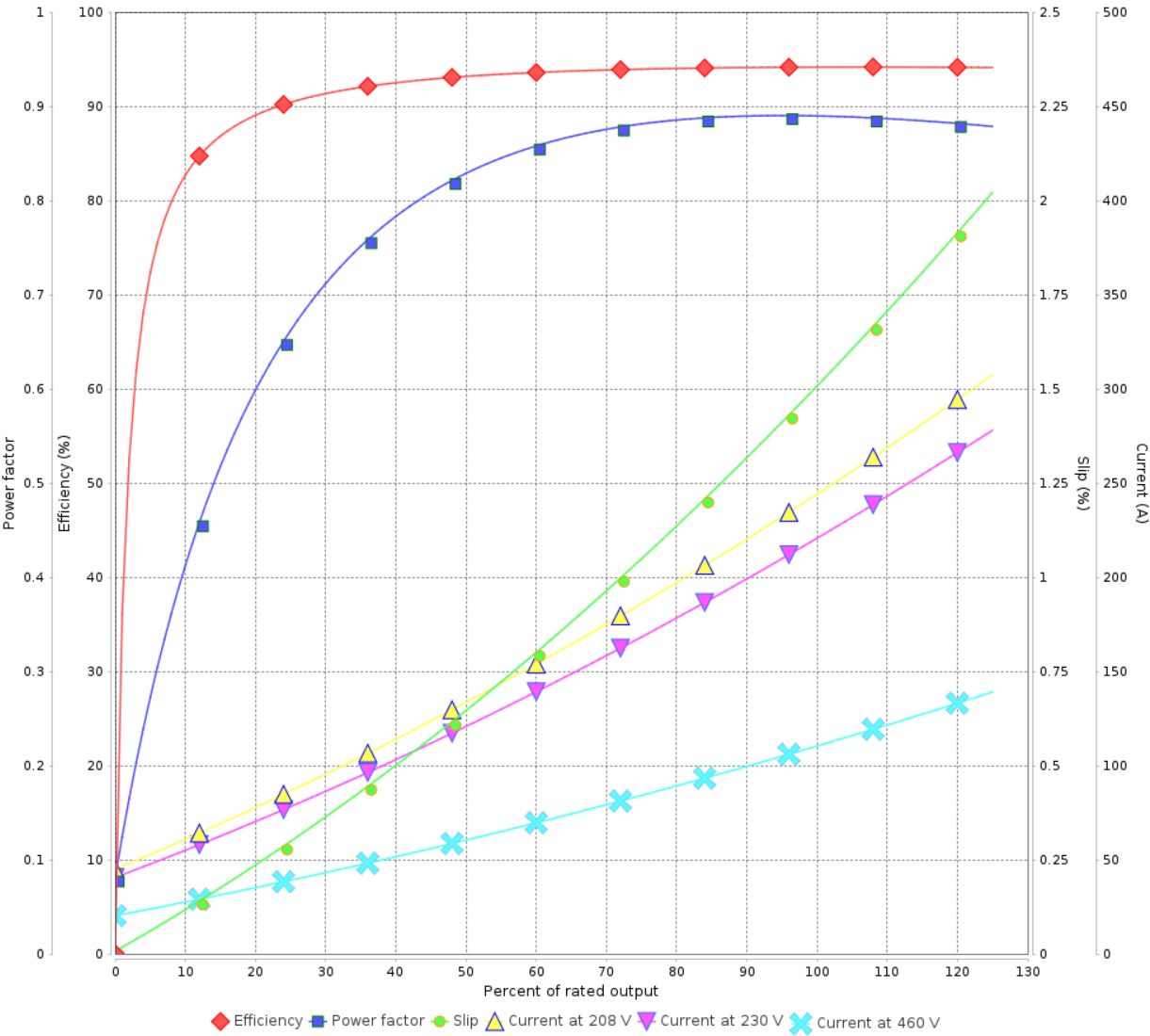
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase      Product code : 11165996

LOAD PERFORMANCE CURVE



Performance : 230/460 V 60 Hz 2P

Rated current : 224/112 A  
LRC : 6.5  
Rated torque : 20.5 kgfm  
Locked rotor torque : 240 %  
Breakdown torque : 260 %  
Rated speed : 3545 rpm

Moment of inertia (J) : 0.5561 kgm<sup>2</sup>  
Duty cycle : Cont.(S1)  
Insulation class : F  
Service factor : 1.25  
Temperature rise : 80 K  
Design : B

Rev.	Changes Summary		Performed	Checked	Date
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