

# DATA SHEET



## Single Phase Induction Motor - Squirrel Cage

Customer :					
Product line		: Farm Duty Single-Phase		Product code : 11796933	
Frame	: F143TC		Locked rotor time	: 10s (cold) 6s (hot)	
Output	: 1 HP (0.75 kW)		Temperature rise	: 80 K	
Poles	: 4		Duty cycle	: Cont.(S1)	
Frequency	: 60 Hz		Ambient temperature	: -20°C to +40°C	
Rated voltage	: 115/230 V		Altitude	: 1000 m.a.s.l.	
Rated current	: 14.0/7.00 A		Protection degree	: IP55	
L. R. Amperes	: 91.0/45.5 A		Cooling method	: IC411 - TEFC	
LRC	: 6.5x(Code M)		Mounting	: F-1	
No load current	: 11.5/5.75 A		Rotation <sup>1</sup>	: Both (CW and CCW)	
Rated speed	: 1750 rpm		Noise level <sup>2</sup>	: 55.0 dB(A)	
Slip	: 2.78 %		Starting method	: Direct On Line	
Rated torque	: 0.415 kgfm		Approx. weight <sup>3</sup>	: 18.1 kg	
Locked rotor torque	: 320 %				
Breakdown torque	: 270 %				
Insulation class	: B				
Service factor	: 1.15				
Moment of inertia (J)	: 0.0056 kgm <sup>2</sup>				
Output	50%	75%	100%	Foundation loads	
Efficiency (%)	60.0	67.0	70.3	Max. traction : 27 kgf	
Power Factor	0.45	0.56	0.65	Max. compression : 45 kgf	
		<u>Drive end</u>		<u>Non drive end</u>	
Bearing type	:	6205 ZZ		6203 ZZ	
Sealing	:	V'Ring		V'Ring	
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>		
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# LOAD PERFORMANCE CURVE

Single Phase Induction Motor - Squirrel Cage

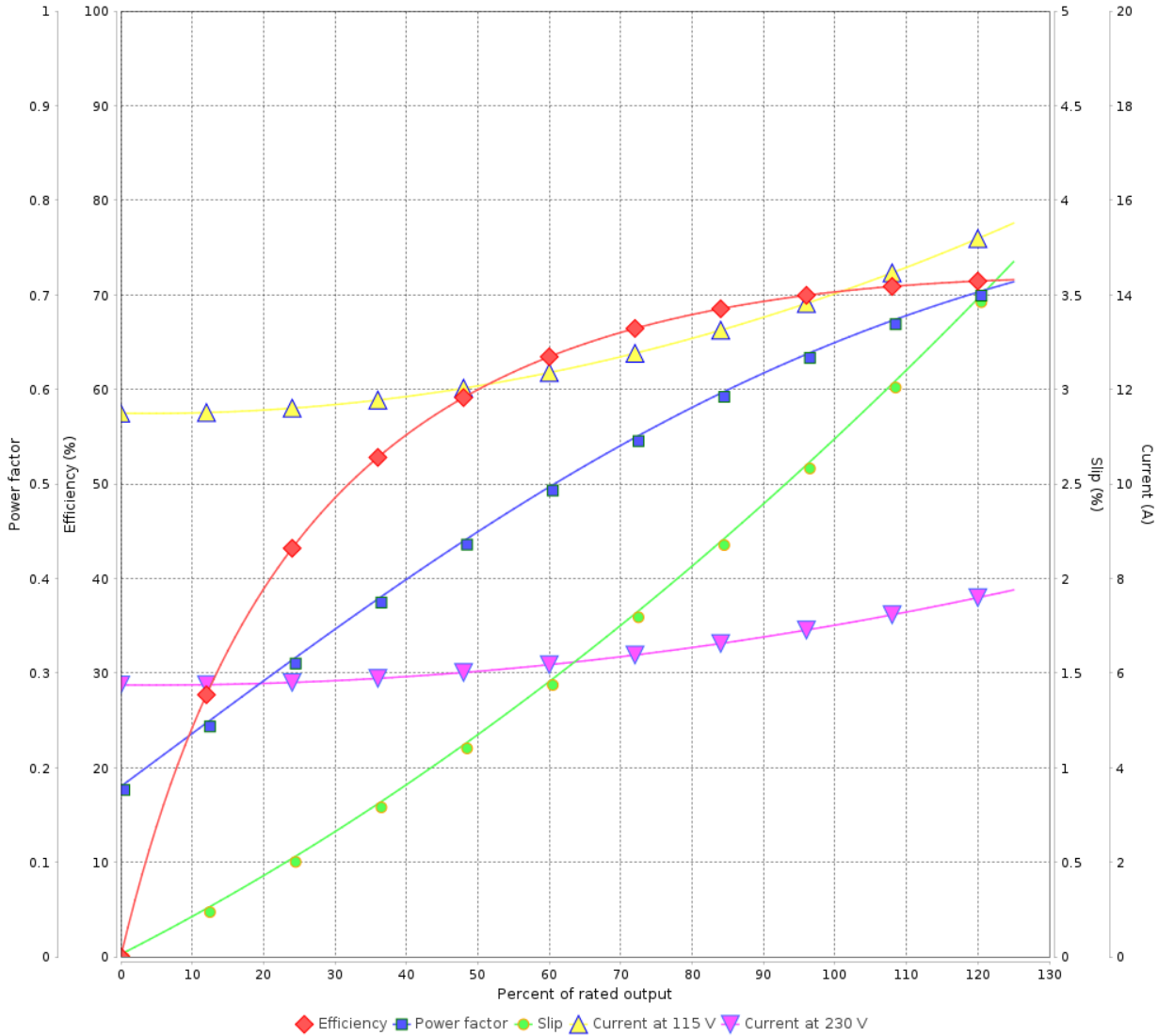


Customer :

Product line : Farm Duty Single-Phase

Product code : 11796933

LOAD PERFORMANCE CURVE



Performance : 115/230 V 60 Hz 4P

Rated current : 14.0/7.00 A  
 LRC : 6.5  
 Rated torque : 0.415 kgfm  
 Locked rotor torque : 320 %  
 Breakdown torque : 270 %  
 Rated speed : 1750 rpm

Moment of inertia (J) : 0.0056 kgm<sup>2</sup>  
 Duty cycle : Cont.(S1)  
 Insulation class : B  
 Service factor : 1.15  
 Temperature rise : 80 K

Rev.	Changes Summary	Performed	Checked	Date
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