

# DATA SHEET

## Single Phase Induction Motor - Squirrel Cage



Customer :

Product line : Farm Duty Single-Phase Product code : 12311417

Frame	: D56	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>	: 15.3 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	: 28 kgf
Power Factor	0.45	0.56	0.65	Max. compression	: 43 kgf

	Drive end	Non drive end
Bearing type	: 6204 ZZ	: 6202 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.

Rev.	Changes Summary	Performed	Checked	Date
Performed by		Page Revision 1 / 2		
Checked by				
Date	20/10/2024			

LOAD PERFORMANCE CURVE

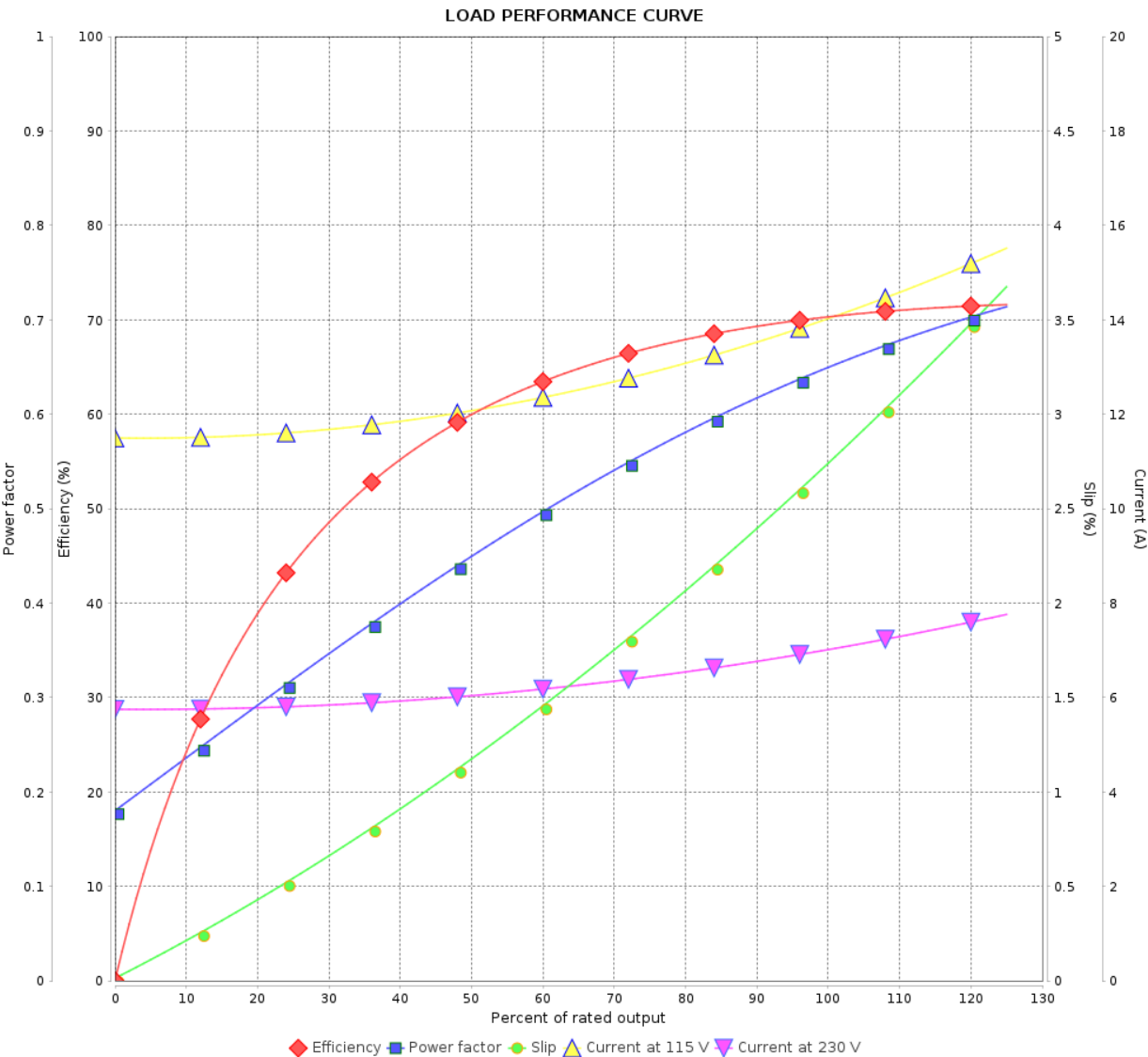
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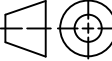

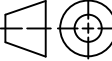

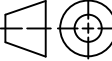



Performance : 115/230 V 60 Hz 4P

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
Performed by				Page	Revision
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Date					

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E	<div><div>Mounting B3R(D)</div><table><tr><td colspan="2">EXECUTED</td><td>HYBRISUSER</td><td rowspan="3"></td><td rowspan="3">SINGLE PH. MOTOR FARM DUTY FRAME D56 IP55 TEFC</td><td colspan="2">PREVIEW</td><td rowspan="3"></td></tr><tr><td colspan="2">CHECKED</td><td></td><td>WDD</td><td>00</td></tr><tr><td colspan="2">RELEASED</td><td></td><td></td><td></td></tr><tr><td colspan="2">REL. DATE</td><td></td><td>WMO</td><td>Jaragua do Sul</td><td>Product Engineering</td><td>SHEET</td><td>1 / 1</td></tr></table></div>						EXECUTED		HYBRISUSER		SINGLE PH. MOTOR FARM DUTY FRAME D56 IP55 TEFC	PREVIEW			CHECKED			WDD	00	RELEASED					REL. DATE			WMO	Jaragua do Sul	Product Engineering	SHEET	1 / 1
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