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	Rotation¹	: Both (CW and CCW)
Rated speed	: 1750 rpm	Noise level²	: 55.0 dB(A)
Slip	: 2.78 %	Vibration	: Not Applicable
Rated torque	: 0 kgfm	Starting method	: Direct On Line
Locked rotor torque	: 320 %	Approx. weight³	: 15.4 kg
Breakdown torque	: 270 %		: 207N (ISO 12944 - C2)
Insulation class	: B		: RAL 3002
Service factor	: 1.15		
Moment of inertia (J)	: 0.0056 kgm²		

Output	50%	75%	100%
Efficiency (%)	60.0	67.0	70.3
Power Factor	0.45	0.56	0.65

Foundation loads

Max. traction	: 28 kgf
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

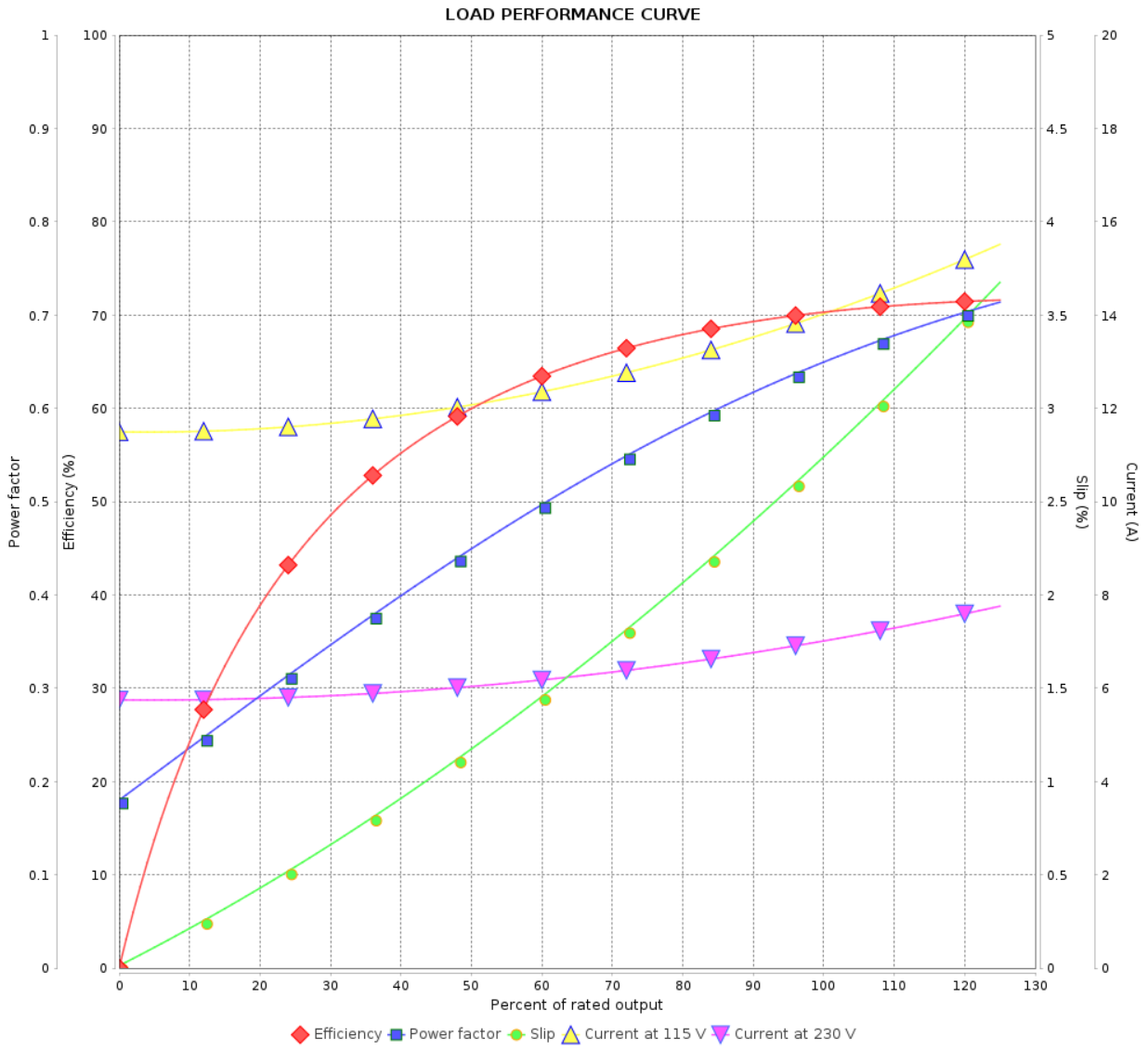
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Checked by			Page	Revision
Date	23/09/2026		1 / 2	

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LOAD PERFORMANCE CURVE

Single Phase Induction Motor - Squirrel Cage

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



Performance	: 115/230 V 60 Hz 4P		
Rated current	: 14.0/7.00 A	Moment of inertia (J)	: 0.0056 kgm²
LRC	: 6.5	Duty cycle	: Cont.(S1)
Rated torque	: 0 kgfm	Insulation class	: B
Locked rotor torque	: 320 %	Service factor	: 1.15
Breakdown torque	: 270 %	Temperature rise	: 80 K
Rated speed	: 1750 rpm		

Rev.	Changes Summary	Performed	Checked	Date

Performed by				
Checked by			Page	Revision
Date	23/09/2026		2 / 2	

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ECM	LOC	SUMMARY OF MODIFICATIONS	EXECUTED	CHECKED	RELEASED	DATE	VER
			HYBRISUSER				00

Mounting B3R(D)

EXECUTED	HYBRISUSER	SINGLE PH. MOTOR FARM DUTY	PREVIEW
CHECKED		FRAME D56 IP55 TEFC	WDD 00
RELEASED			
REL. DATE		WMO Jaragua do Sul Product Engineering	SHEET 1 / 1

1 HP 04 Poles 60 Hz

A

Dimensions in inches

XME A3

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