DATA SHEET

Single Phase Induction Motor - Squirrel Cage

Customer	:		
Product line	: Single-Phase	Product code :	14459511

Frame	: 56HC	Cooling method	: IC01 - ODP
Insulation class	: F	Mounting	: F-1
Duty cycle	: Cont.(S1)	Rotation[1]	: Both (CW and CCW)
Ambient temperature	: -20°C to +40°C	Starting method	: Direct On Line
Altitude	: 1000 m.a.s.l.	Approx. weight[3]	: 18.5 kg
Design	: L	Moment of inertia (J)	: 0.0032 kgm²

Output [HP]		2
Poles		2
Frequency [Hz]		60
Rated voltage [V]		115/208-230
Rated current [A]		16.8/9.29-8.40
L. R. Amperes [A]		144/79.9-72.2
LRC [A]		8.6x(Code K)
No load current [A]		4.40/1.90-2.20
Rated speed [RPM]		3500
Slip [%]		2.78
Rated torque [kgfm]		0.415
Locked rotor torque [%]		250
Breakdown torque [%]		280
Service factor		
Temperature rise		80 K
Locked rotor time		14s (cold) 8s (hot)
Noise level[2]		58.0 dB(A)
Efficiency (%)	25%	
	50%	76.0
	75%	81.0
	100%	82.9
Power Factor	25%	
	50%	0.90
	75%	0.94
	100%	0.94

		Drive end	Non drive end
Bearing type	:	6204 ZZ	6202 ZZ
Sealing	:	Without Bearing Seal	Without Bearing Seal
Lubrication interval	:	-	-
Lubricant amount	:	-	-
Lubricant type	:	Mobil Polyrex EM	

Foundation loads

Max. traction : 28 kgf

Max. compression : 46 kgf

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

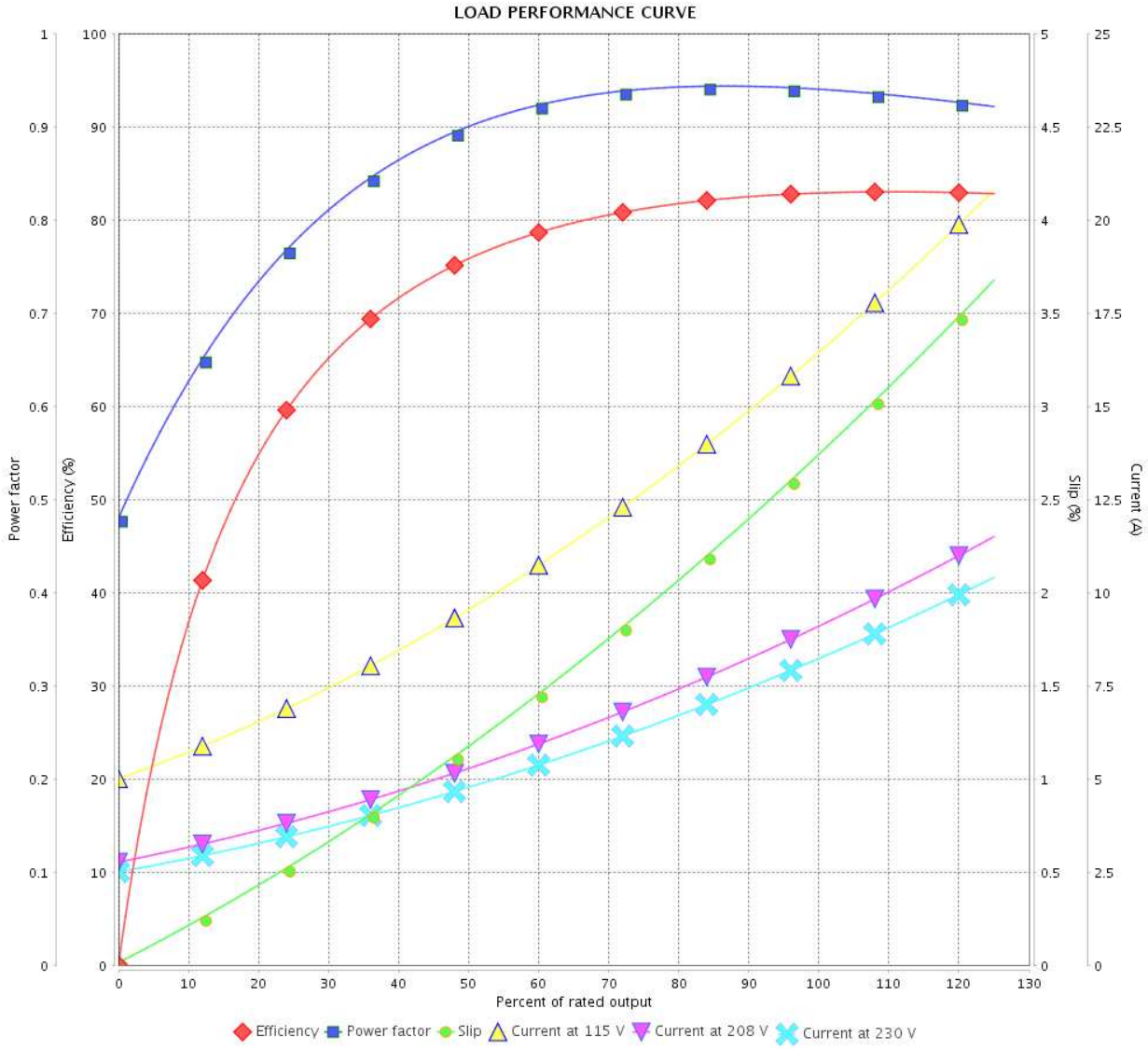
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LOAD PERFORMANCE CURVE

Single Phase Induction Motor - Squirrel Cage

Customer	:		
Product line	: Single-Phase	Product code :	14459511

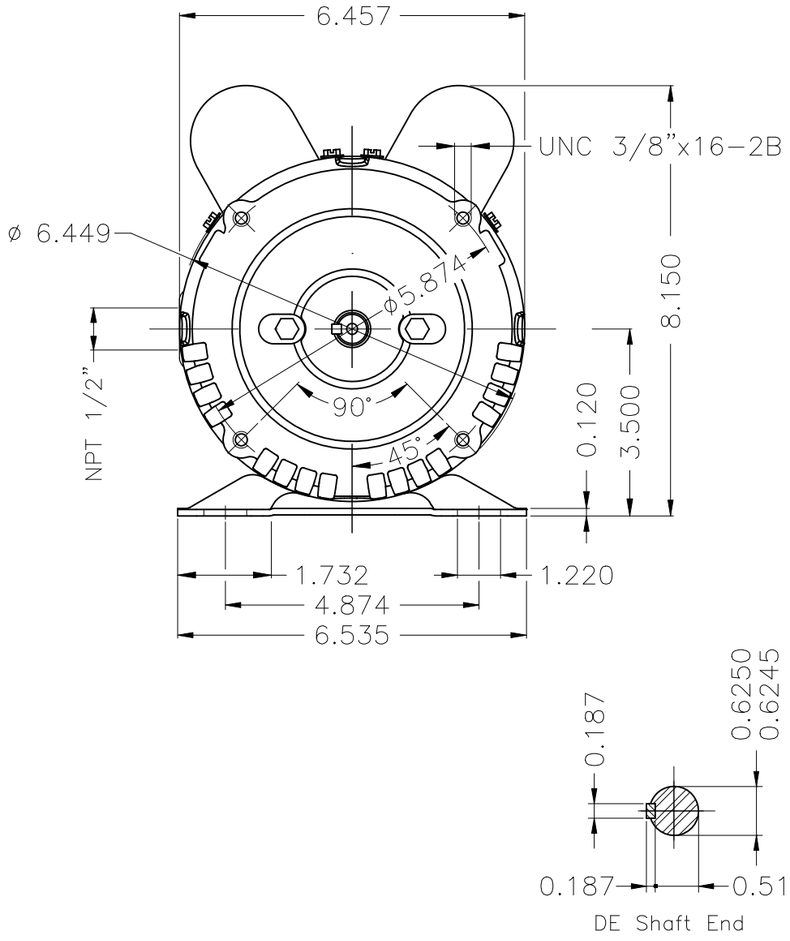


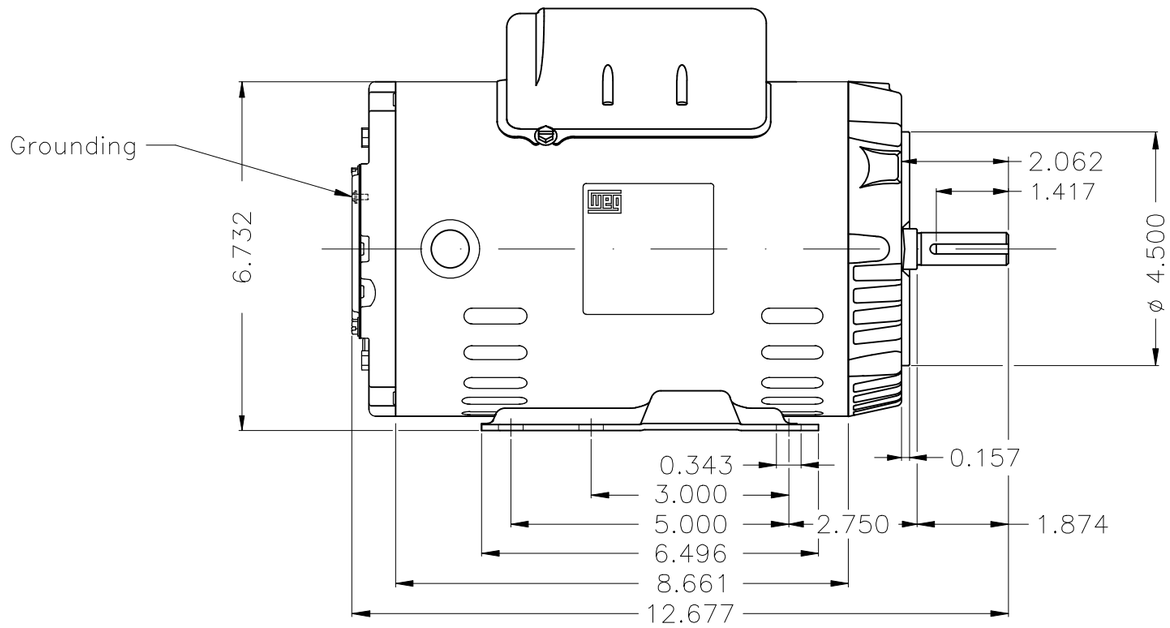
Performance	: 115/208-230 V 60 Hz 2P		
Rated current	: 16.8/9.29-8.40 A	Moment of inertia (J)	: 0.0032 kgm²
LRC	: 8.6	Duty cycle	: Cont.(S1)
Rated torque	: 0.415 kgfm	Insulation class	: F
Locked rotor torque	: 250 %	Service factor	:
Breakdown torque	: 280 %	Temperature rise	: 80 K
Rated speed	: 3500 rpm	Design	: L

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Mounting B34D

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

EXECUTED	HYBRISUSER	SINGLE PH. MOTOR ROLLED STEEL PREM. EFF.	PREVIEW	
CHECKED		FRAME 56HC IP21 ODP	WDD	00
RELEASED				
REL. DATE		WMO Jaragua do Sul Product Engineering	SHEET	1 / 1

2 HP 02 Poles 60 Hz

A

Dimensions in inches

XME A3

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