DATA SHEET

Single Phase Induction Motor - Squirrel Cage

WEG

Customer	:

Product line	: W22 Single-Phase	Product code :	14089875

Frame	: 182/4T	Locked rotor time	: 16s (cold) 9s (hot)
Output	: 3 HP (2.2 kW)	Temperature rise	: 80 K
Poles	: 2	Duty cycle	: Cont.(S1)
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 115/208-230 V	Altitude	: 1000 m.a.s.l.
Rated current	: 24.4/13.5-12.2 A	Protection degree	: IP55
L. R. Amperes	: 188/104-93.9 A	Cooling method	: IC411 - TEFC
LRC	: 7.7x(Code J)	Mounting	: F-1
No load current	: 8.00/3.45-4.00 A	Rotation[1]	: Both (CW and CCW)
Rated speed	: 3520 rpm	Noise level[2]	: 72.0 dB(A)
Slip	: 2.22 %	Starting method	: Direct On Line
Rated torque	: 0.619 kgfm	Approx. weight[3]	: 43.0 kg
Locked rotor torque	: 250 %		
Breakdown torque	: 260 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 0.0066 kgm²		

Output	25%	50%	75%	100%	Foundation loads	
Efficiency (%)	78.8	80.0	83.0	84.0	Max. traction	: 12 kgf
Power Factor	0.62	0.92	0.93	0.93	Max. compression	: 55 kgf

		Drive end	Non drive end
Bearing type	:	6207 ZZ	6206 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.

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LOAD PERFORMANCE CURVE

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Customer	:

Product line	: W22 Single-Phase	Product code :	14089875

LOAD PERFORMANCE CURVE

Legend: Efficiency · Power factor · Slip · Current at 115 V · Current at 208 V · Current at 230 V
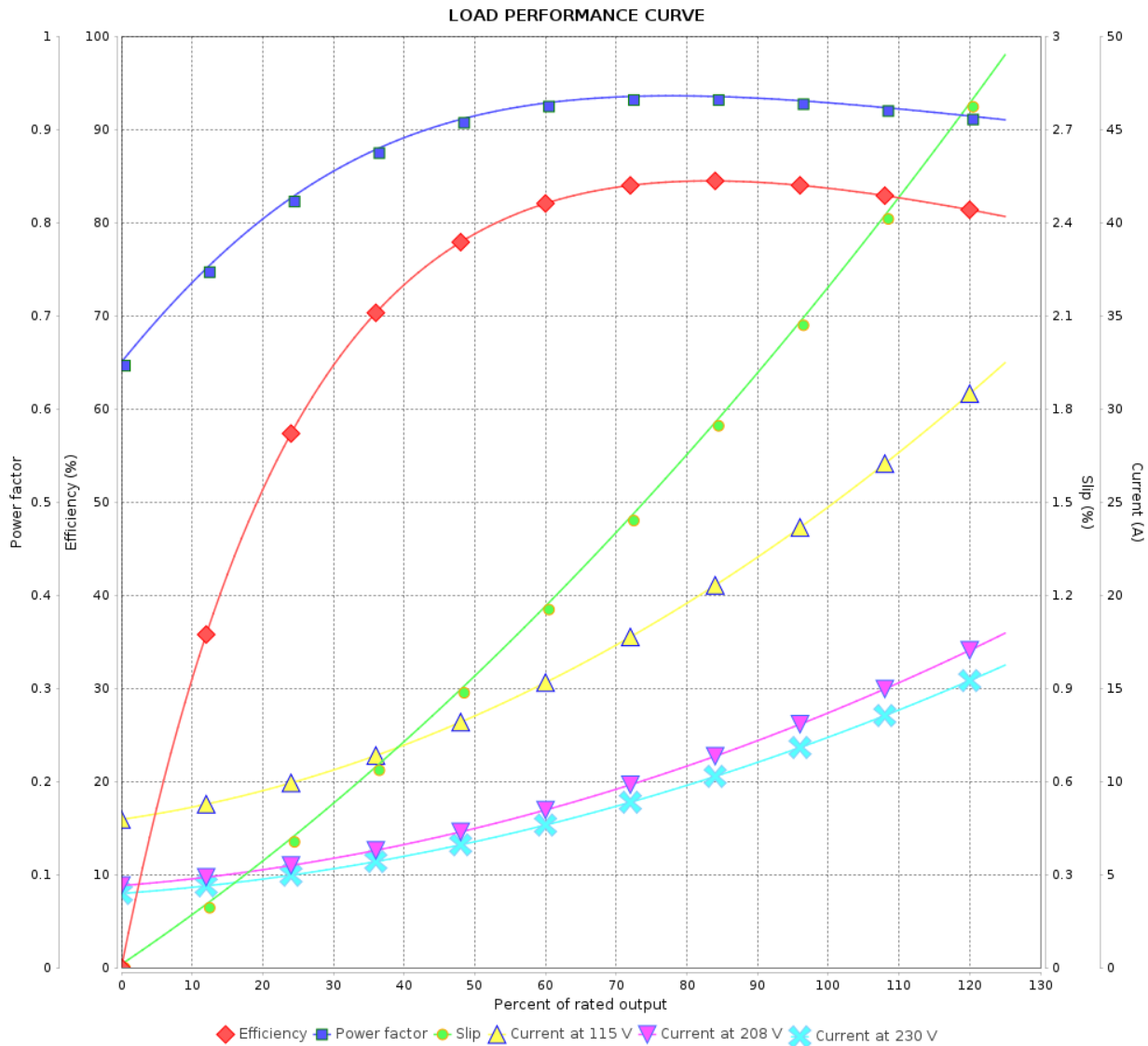
Performance	: 115/208-230 V 60 Hz 2P		
Rated current	: 24.4/13.5-12.2 A	Moment of inertia (J)	: 0.0066 kgm²
LRC	: 7.7	Duty cycle	: Cont.(S1)
Rated torque	: 0.619 kgfm	Insulation class	: F
Locked rotor torque	: 250 %	Service factor	:
Breakdown torque	: 260 %	Temperature rise	: 80 K
Rated speed	: 3520 rpm		

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