DATA SHEET
Single Phase Induction Motor - Squirrel Cage

WEG

Customer	:

Product line	: Compressor Duty Single-Phase	Product code :	10021789

Frame	: G56H	Locked rotor time	: 10s (cold) 6s (hot)
Output	: 5 HP (3.7 kW)	Temperature rise	: 105 K
Poles	: 2	Duty cycle	: Cont.(S1)
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 208-230 V	Altitude	: 1000 m.a.s.l.
Rated current	: 21.0-19.1 A	Protection degree	: IP21
L. R. Amperes	: 137-124 A	Cooling method	: IC01 - ODP
LRC	: 6.5x(Code G)	Mounting	: F-1
No load current	: 3.19-3.70 A	Rotation[1]	: Both (CW and CCW)
Rated speed	: 3455 rpm	Starting method	: Direct On Line
Slip	: 4.03 %	Approx. weight[3]	: 21.9 kg
Rated torque	: 1.05 kgfm		
Locked rotor torque	: 220 %		
Breakdown torque	: 200 %		
Insulation class	: F		
Service factor	: 1.00		
Moment of inertia (J)	: 0.0030 kgm²		

Output	50%	75%	100%	Foundation loads	
Efficiency (%)	83.0	85.0	85.0	Max. traction	: 56 kgf
Power Factor	0.99	0.99	0.99	Max. compression	: 78 kgf

		Drive end	Non drive end
Bearing type	:	6204 ZZ	6203 ZZ
Sealing	:	Without Bearing Seal	Without Bearing Seal
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.
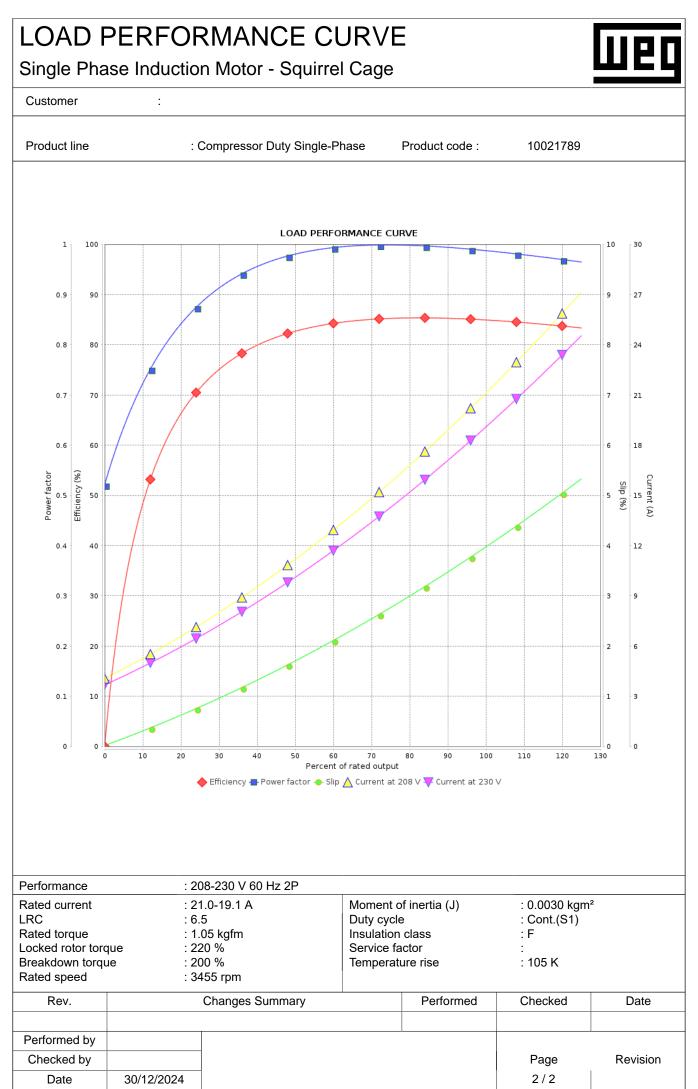(4) At 100% of full load.

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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LOAD PERFORMANCE CURVE

Legend: ◆ Efficiency ■ Power factor ● Slip △ Current at 208 V ▽ Current at 230 V

Performance	: 208-230 V 60 Hz 2P		
Rated current	: 21.0-19.1 A	Moment of inertia (J)	: 0.0030 kgm²
LRC	: 6.5	Duty cycle	: Cont.(S1)
Rated torque	: 1.05 kgfm	Insulation class	: F
Locked rotor torque	: 220 %	Service factor	:
Breakdown torque	: 200 %	Temperature rise	: 105 K
Rated speed	: 3455 rpm		

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