

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W40 NEMA Premium Efficiency Three-Phase Product code : 14430492

Frame	: 404/5T	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	: 467 kg
Protection degree	: IP23	Moment of inertia (J)	: 1.08 kgm ²
Design	: B		

Output [HP]	125	100	100	100
Poles	4	4	4	4
Frequency [Hz]	60	50	50	50
Rated voltage [V]	230/460	380	400	415
Rated current [A]	276/138	138	133	129
L. R. Amperes [A]	1904/952	994	1024	1032
LRC [A]	6.9x(Code G)	7.2x(Code H)	7.7x(Code H)	8.0x(Code J)
No load current [A]	94.0/47.0	46.3	50.2	53.7
Rated speed [RPM]	1780	1480	1480	1480
Slip [%]	1.11	1.33	1.33	1.33
Rated torque [kgfm]	51.0	49.0	49.0	49.0
Locked rotor torque [%]	270	240	270	290
Breakdown torque [%]	260	260	300	320
Service factor	1.25	1.00	1.00	1.00
Temperature rise	80 K	80 K	80 K	80 K
Locked rotor time	18s (cold) 10s (hot)	16s (cold) 9s (hot)	16s (cold) 9s (hot)	14s (cold) 8s (hot)
Noise level ²	69.0 dB(A)			
Efficiency (%)	25%			
	50%	95.0	94.6	94.6
	75%	95.4	95.0	95.0
	100%	95.4	95.0	95.0
Power Factor	25%			
	50%	0.75	0.76	0.72
	75%	0.83	0.84	0.82
	100%	0.86	0.87	0.86

	<u>Drive end</u>	<u>Non drive end</u>	Foundation loads
Bearing type	: 6316 C3	6212 Z C3	Max. traction : 1310 kgf
Sealing	: Without	Without	Max. compression : 1778 kgf
	Bearing Seal	Bearing Seal	
Lubrication interval	: 20000 h	20000 h	
Lubricant amount	: 34 g	13 g	
Lubricant type	: Mobil Polyrex EM		

Notes
USABLE @208V 305A SF 1.15 SFA 351A

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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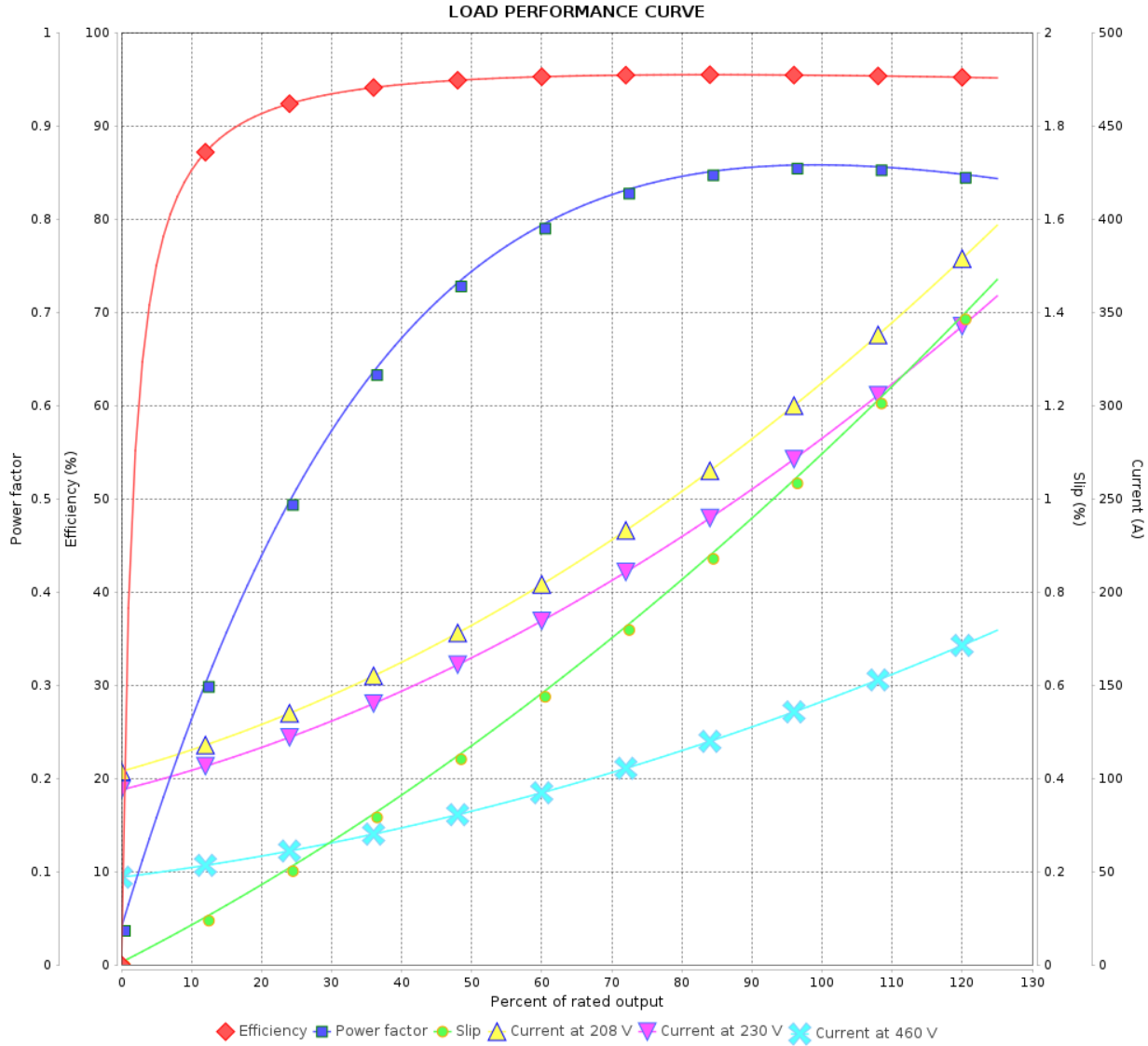
Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : W40 NEMA Premium Efficiency Three-Phase

Product code : 14430492



Performance : 230/460 V 60 Hz 4P

Rated current : 276/138 A
 LRC : 6.9
 Rated torque : 51.0 kgfm
 Locked rotor torque : 270 %
 Breakdown torque : 260 %
 Rated speed : 1780 rpm

Moment of inertia (J) : 1.08 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.25
 Temperature rise : 80 K
 Design : B

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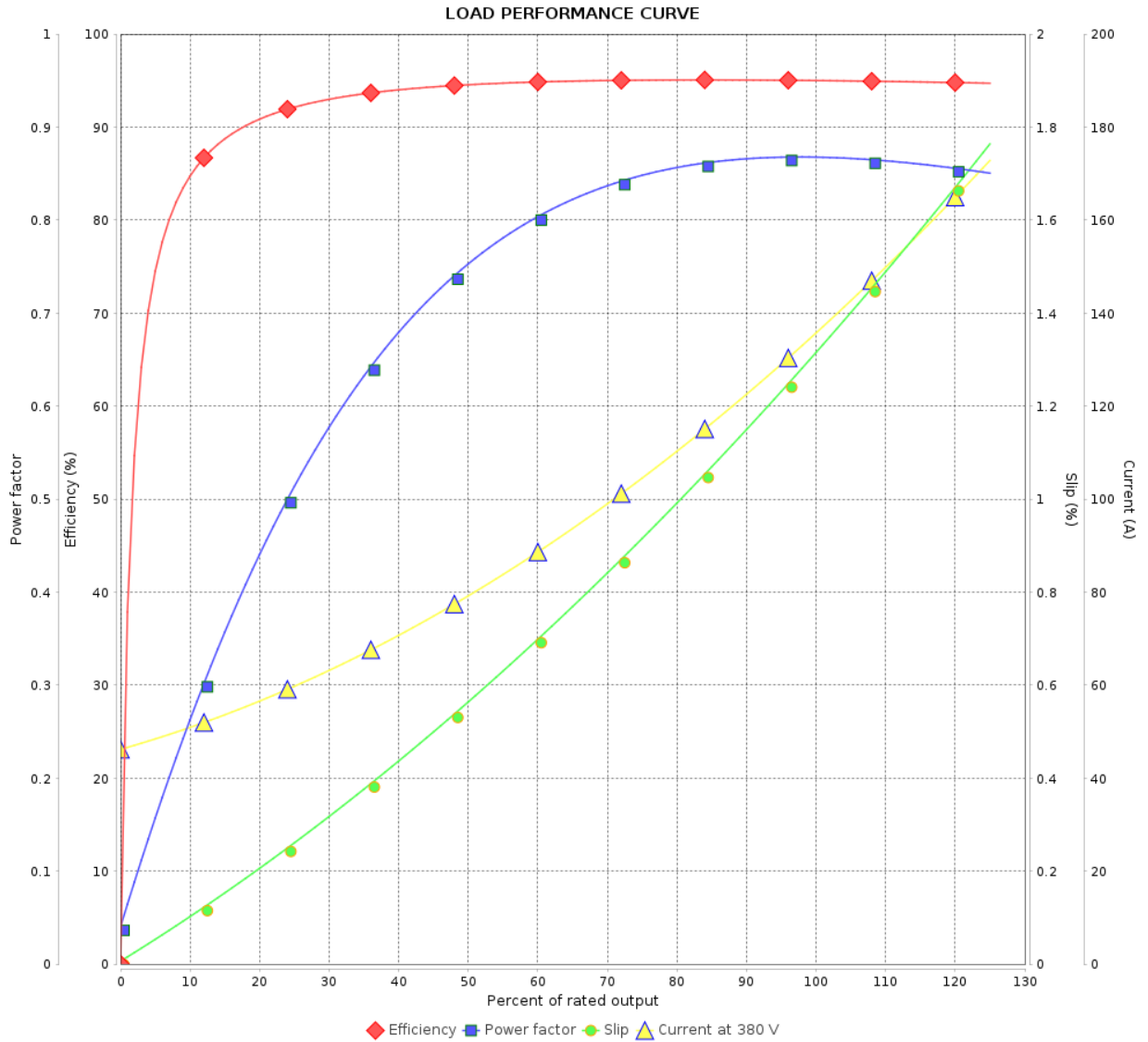
Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : W40 NEMA Premium Efficiency Three-Phase

Product code : 14430492



Performance : 380 V 50 Hz 4P IE3

Rated current : 138 A
 LRC : 7.2
 Rated torque : 49.0 kgfm
 Locked rotor torque : 240 %
 Breakdown torque : 260 %
 Rated speed : 1480 rpm

Moment of inertia (J) : 1.08 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 80 K
 Design : B

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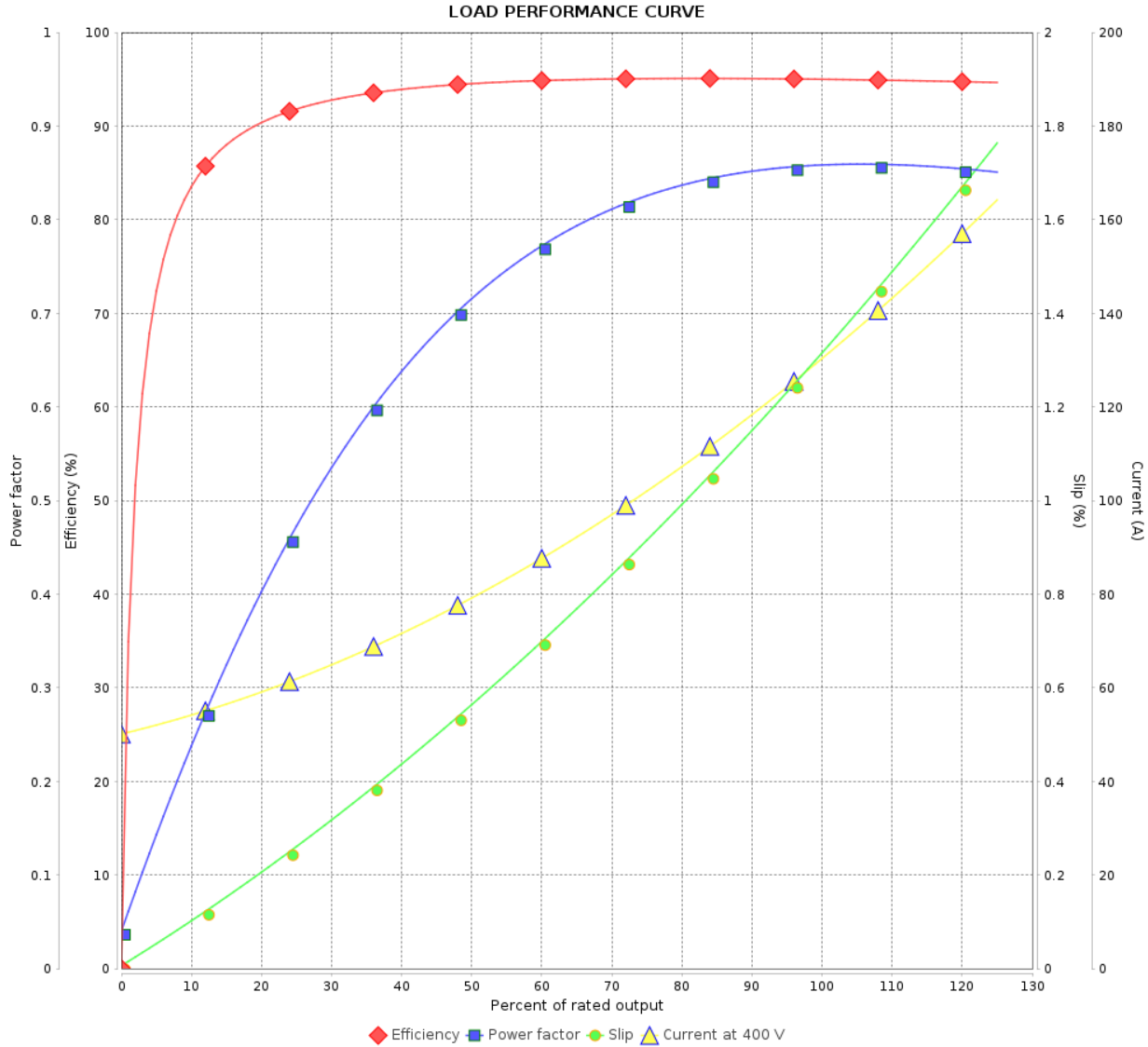
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W40 NEMA Premium Efficiency Three-Phase

Product code : 14430492



Performance : 400 V 50 Hz 4P IE3

Rated current	: 133 A	Moment of inertia (J)	: 1.08 kgm ²
LRC	: 7.7	Duty cycle	: Cont.(S1)
Rated torque	: 49.0 kgfm	Insulation class	: F
Locked rotor torque	: 270 %	Service factor	: 1.00
Breakdown torque	: 300 %	Temperature rise	: 80 K
Rated speed	: 1480 rpm	Design	: B

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