

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W40 NEMA Premium Efficiency Three-Phase
Product code : 14448032

Frame	: 284/6T	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	: 181 kg
Protection degree	: IP23	Moment of inertia (J)	: 0.1906 kgm ²
Design	: B		

Output [HP]	30	25	25	25
Poles	4	4	4	4
Frequency [Hz]	60	50	50	50
Rated voltage [V]	230/460	380	400	415
Rated current [A]	69.8/34.9	35.7	34.7	34.3
L. R. Amperes [A]	461/230	246	250	244
LRC [A]	6.6x(Code G)	6.9x(Code H)	7.2x(Code H)	7.1x(Code H)
No load current [A]	24.2/12.1	12.0	14.0	13.5
Rated speed [RPM]	1770	1470	1470	1475
Slip [%]	1.67	2.00	2.00	1.67
Rated torque [kgfm]	12.3	12.3	12.3	12.3
Locked rotor torque [%]	240	220	250	270
Breakdown torque [%]	270	240	270	300
Service factor	1.25	1.00	1.00	1.00
Temperature rise	80 K	80 K	80 K	80 K
Locked rotor time	32s (cold) 18s (hot)	28s (cold) 16s (hot)	30s (cold) 17s (hot)	30s (cold) 17s (hot)
Noise level ²	64.0 dB(A)			
Efficiency (%)	25%	93.4	92.0	92.0
	50%	93.6	92.2	92.2
	75%	94.1	92.6	92.6
	100%	94.1	92.6	92.6
Power Factor	25%	0.46	0.47	0.42
	50%	0.70	0.70	0.66
	75%	0.80	0.80	0.78
	100%	0.84	0.85	0.83

	<u>Drive end</u>	<u>Non drive end</u>	Foundation loads Max. traction Max. compression
Bearing type	: 6311 Z C3	6211 Z C3	
Sealing	: Without	Without	
	Bearing Seal	Bearing Seal	
Lubrication interval	: 20000 h	20000 h	
Lubricant amount	: 18 g	11 g	
Lubricant type	: Mobil Polyrex EM		

Notes
USABLE @208V 77.2A SF 1.15 SFA 88.8A

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

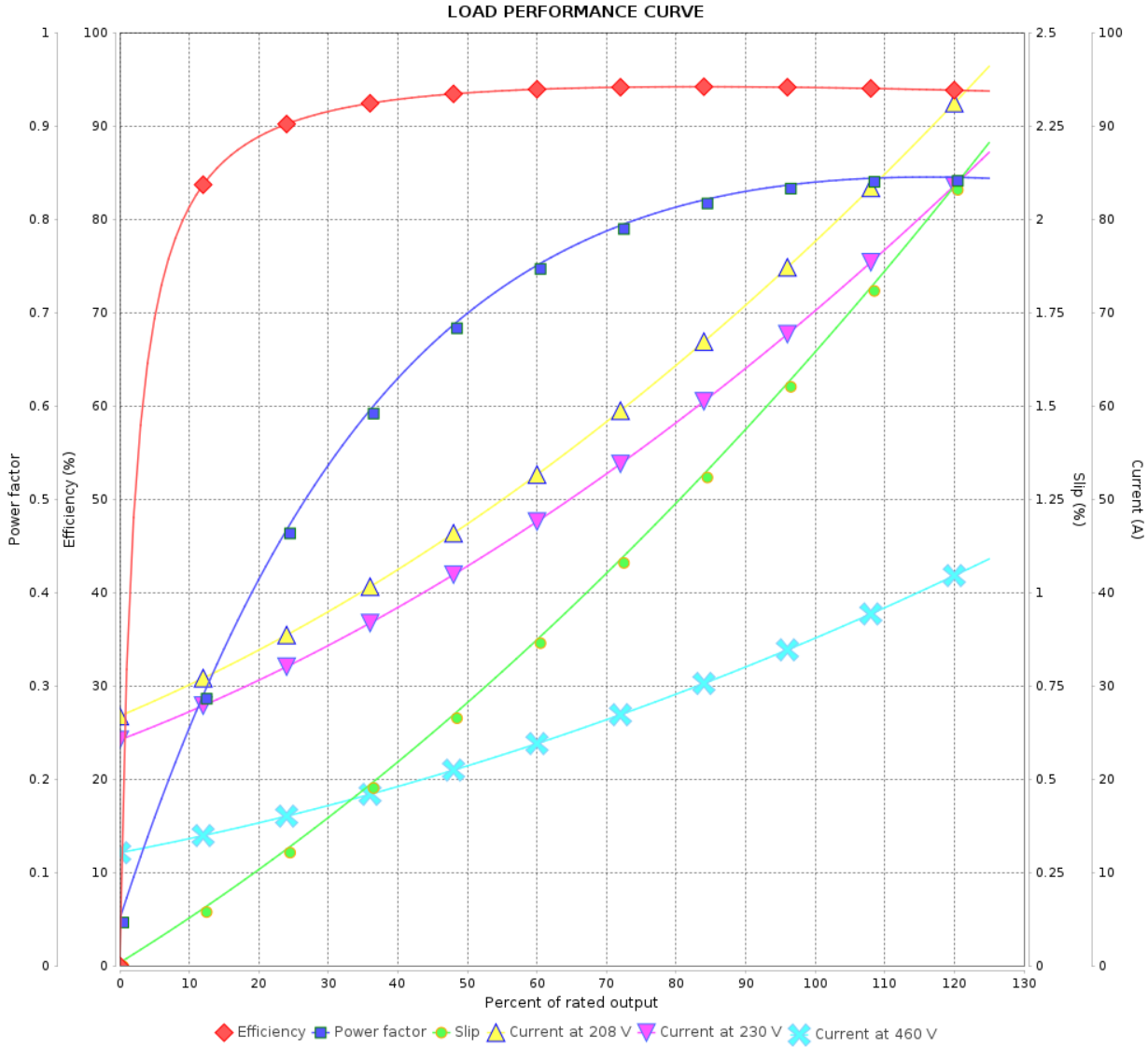
Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : W40 NEMA Premium Efficiency Three-Phase

Product code : 14448032



Performance : 230/460 V 60 Hz 4P

Rated current : 69.8/34.9 A
 LRC : 6.6
 Rated torque : 12.3 kgfm
 Locked rotor torque : 240 %
 Breakdown torque : 270 %
 Rated speed : 1770 rpm

Moment of inertia (J) : 0.1906 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.25
 Temperature rise : 80 K
 Design : B

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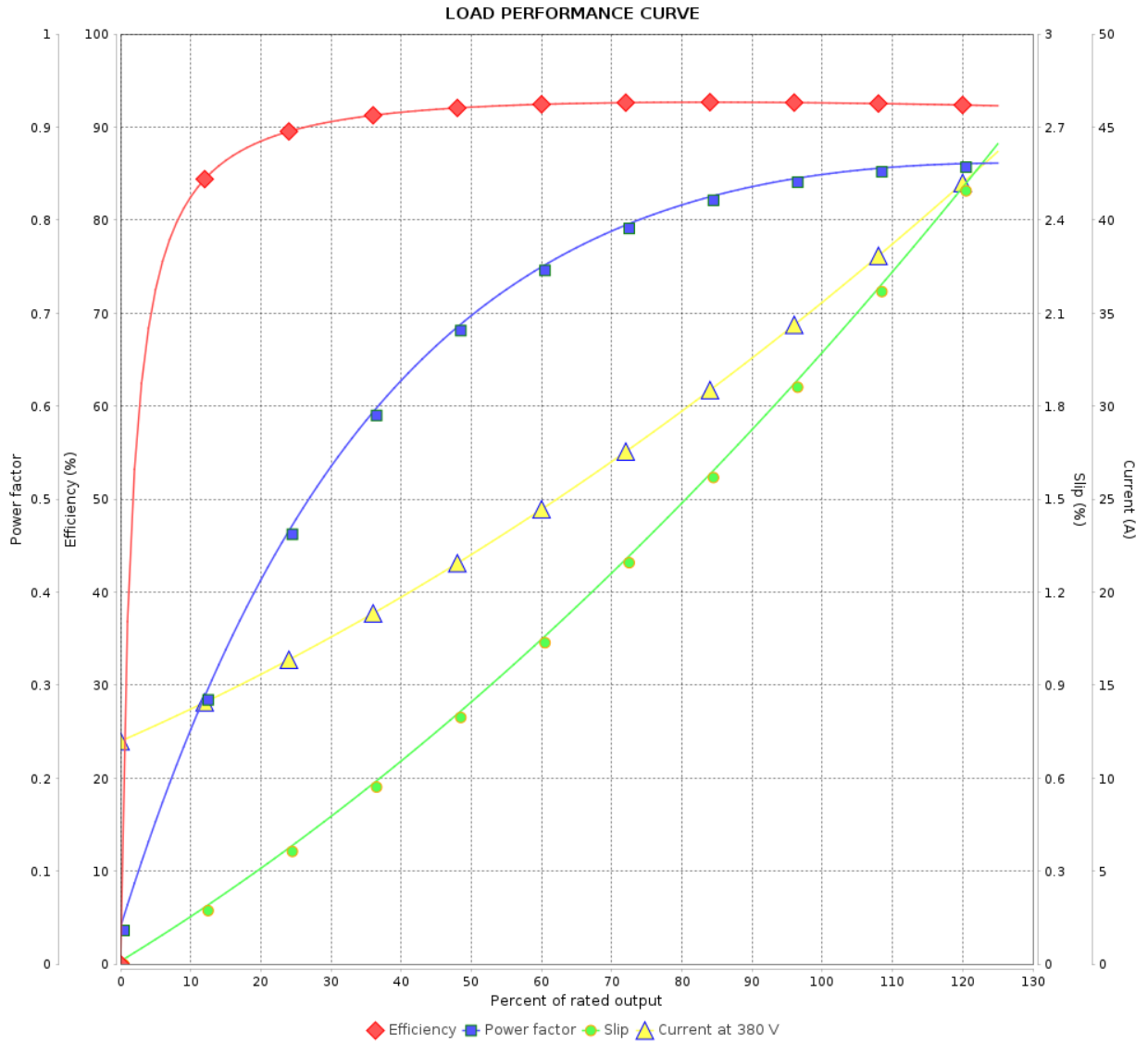
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W40 NEMA Premium Efficiency Three-Phase

Product code : 14448032



Performance : 380 V 50 Hz 4P IE3

Rated current : 35.7 A
 LRC : 6.9
 Rated torque : 12.3 kgfm
 Locked rotor torque : 220 %
 Breakdown torque : 240 %
 Rated speed : 1470 rpm

Moment of inertia (J) : 0.1906 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 80 K
 Design : B

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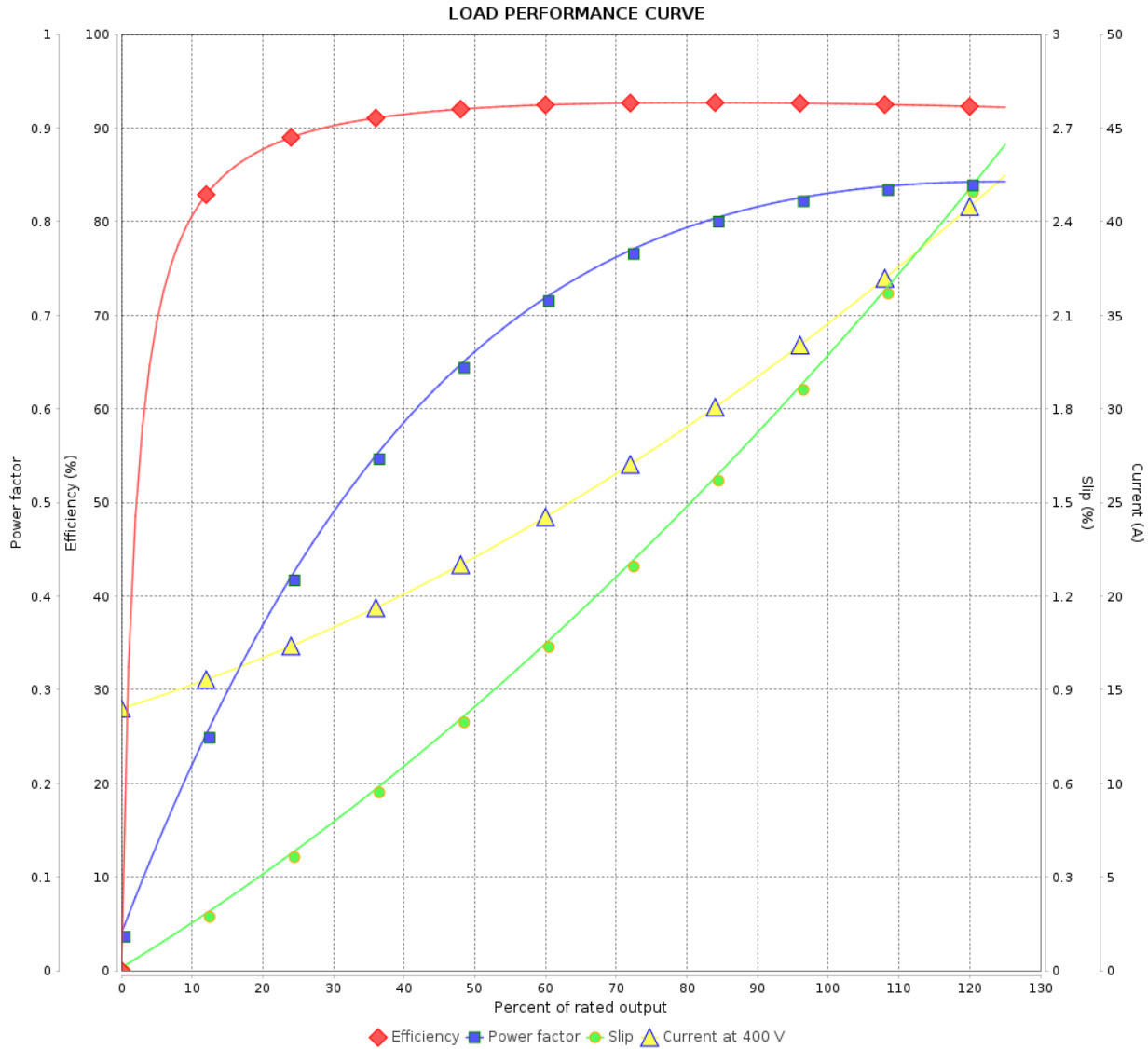
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W40 NEMA Premium Efficiency Three-Phase

Product code : 14448032



Performance : 400 V 50 Hz 4P IE3

Rated current : 34.7 A
 LRC : 7.2
 Rated torque : 12.3 kgfm
 Locked rotor torque : 250 %
 Breakdown torque : 270 %
 Rated speed : 1470 rpm

Moment of inertia (J) : 0.1906 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 80 K
 Design : B

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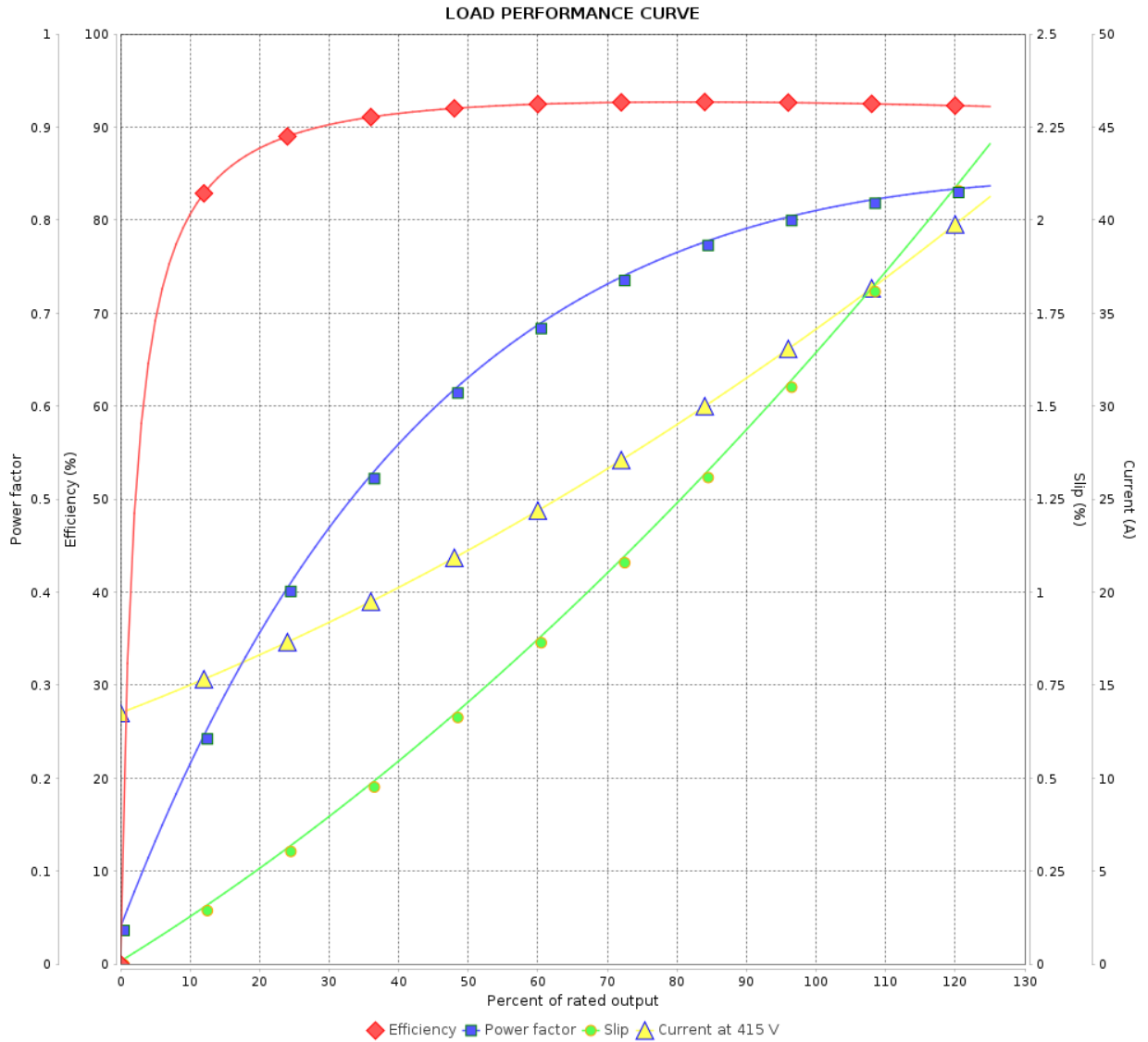
Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : W40 NEMA Premium Efficiency Three-Phase

Product code : 14448032



Performance : 415 V 50 Hz 4P IE3

Rated current : 34.3 A
 LRC : 7.1
 Rated torque : 12.3 kgfm
 Locked rotor torque : 270 %
 Breakdown torque : 300 %
 Rated speed : 1475 rpm

Moment of inertia (J) : 0.1906 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 80 K
 Design : B

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