

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W40 NEMA Premium Efficiency Three-Phase Product code : 14427832

Frame	: 444/5TC	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	: 656 kg
Protection degree	: IP23	Moment of inertia (J)	: 1.96 kgm ²
Design	: B		

Output [HP]	200	175	175	175
Poles	4	4	4	4
Frequency [Hz]	60	50	50	50
Rated voltage [V]	460	380	400	415
Rated current [A]	234	247	237	234
L. R. Amperes [A]	1544	1630	1635	1568
LRC [A]	6.6x(Code G)	6.6x(Code G)	6.9x(Code H)	6.7x(Code H)
No load current [A]	86.5	85.2	93.6	101
Rated speed [RPM]	1783	1480	1480	1485
Slip [%]	0.94	1.33	1.33	1.00
Rated torque [kgfm]	81.4	85.8	85.8	85.5
Locked rotor torque [%]	210	190	210	229
Breakdown torque [%]	250	220	250	270
Service factor	1.15	1.00	1.00	1.00
Temperature rise	80 K	80 K	80 K	80 K
Locked rotor time	25s (cold) 14s (hot)	21s (cold) 12s (hot)	23s (cold) 13s (hot)	25s (cold) 14s (hot)
Noise level ²	78.0 dB(A)			
Efficiency (%)	25%			
	50%	95.4	95.2	95.4
	75%	95.8	95.6	95.6
	100%	95.8	95.6	95.6
Power Factor	25%			
	50%	0.72	0.74	0.70
	75%	0.80	0.82	0.80
	100%	0.84	0.85	0.84

Bearing type	: <u>Drive end</u> 6319 C3	<u>Non drive end</u> 6212 Z C3	Foundation loads	Max. traction : 1692 kgf
	: Without	Without		
Sealing	: Bearing Seal	Bearing Seal		
Lubrication interval	: 20000 h	20000 h		
Lubricant amount	: 45 g	13 g		
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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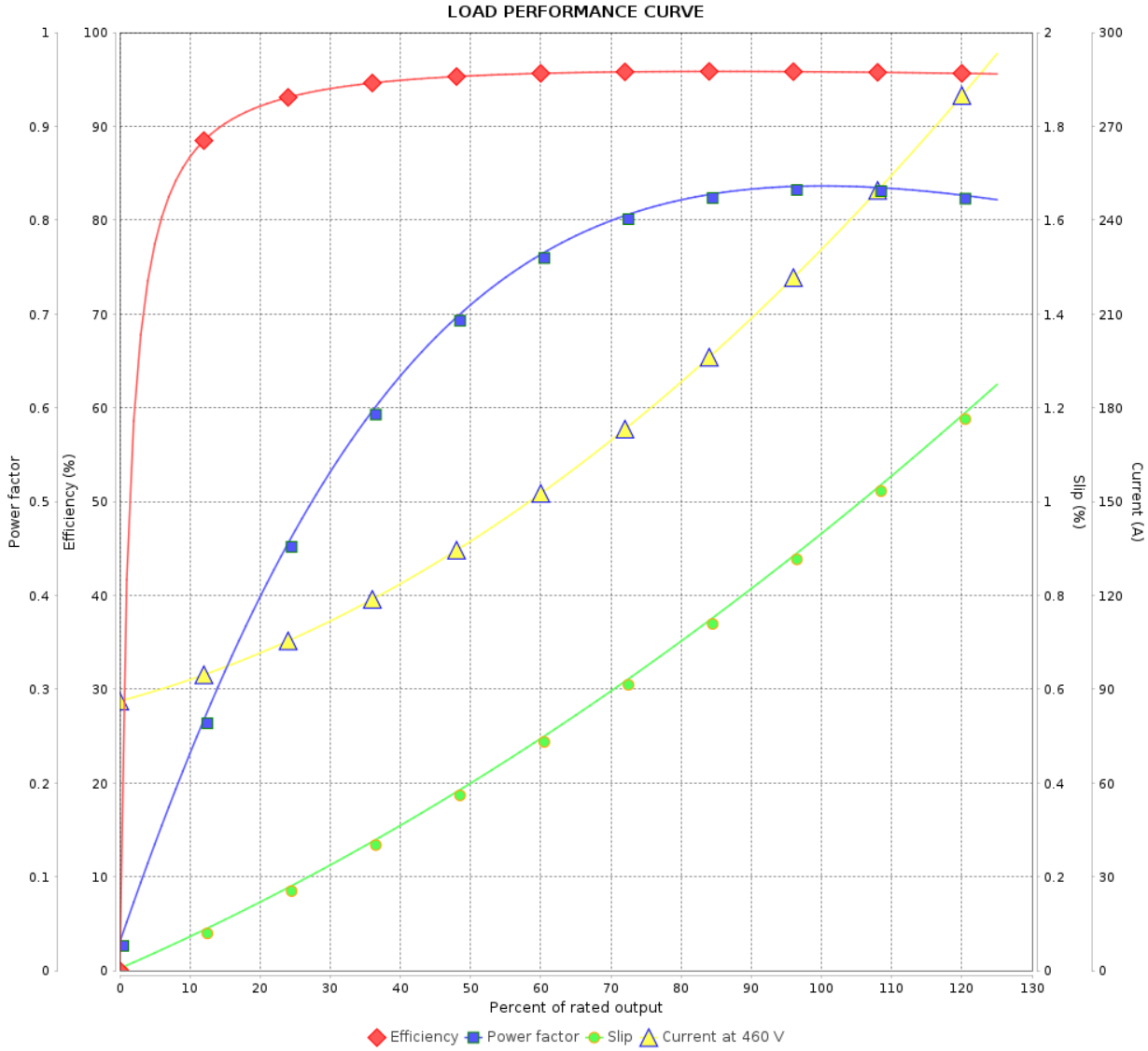
Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : W40 NEMA Premium Efficiency Three-Phase

Product code : 14427832



Performance : 460 V 60 Hz 4P

Rated current : 234 A
 LRC : 6.6
 Rated torque : 81.4 kgfm
 Locked rotor torque : 210 %
 Breakdown torque : 250 %
 Rated speed : 1783 rpm

Moment of inertia (J) : 1.96 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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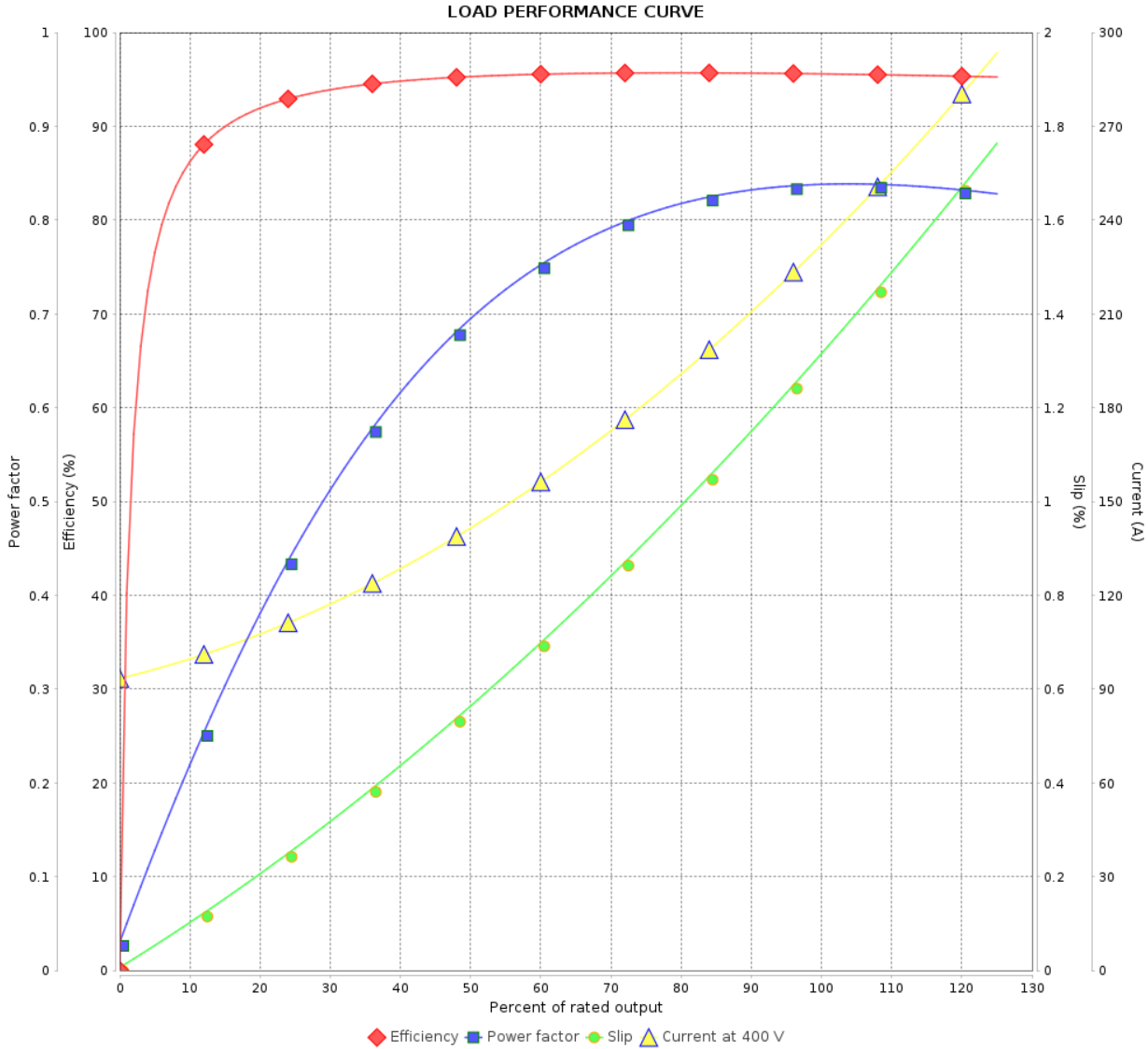
Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : W40 NEMA Premium Efficiency Three-Phase

Product code : 14427832



Performance : 400 V 50 Hz 4P IE3

Rated current	: 237 A	Moment of inertia (J)	: 1.96 kgm ²
LRC	: 6.9	Duty cycle	: Cont.(S1)
Rated torque	: 85.8 kgfm	Insulation class	: F
Locked rotor torque	: 210 %	Service factor	: 1.00
Breakdown torque	: 250 %	Temperature rise	: 80 K
Rated speed	: 1480 rpm	Design	: B

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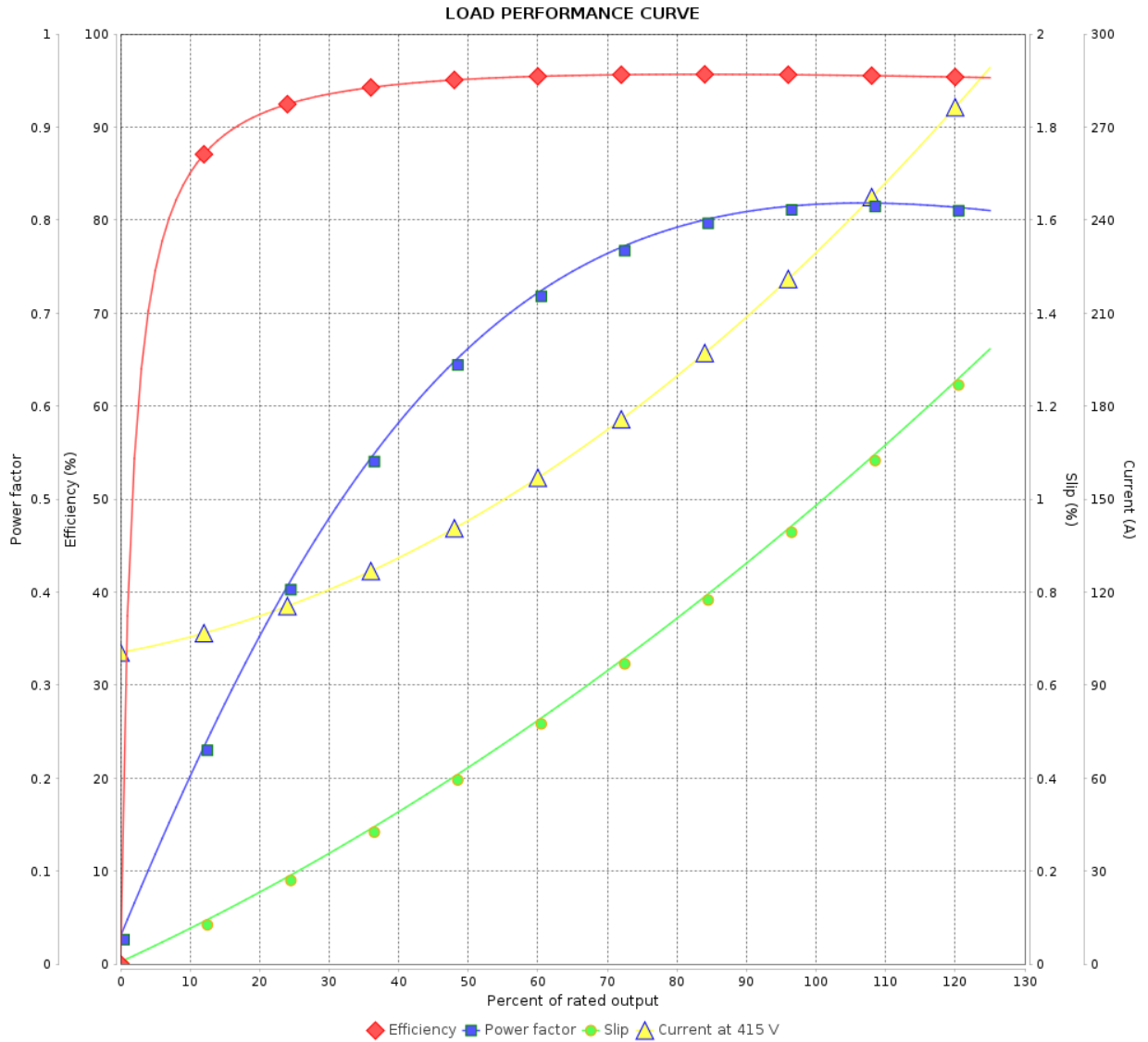
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W40 NEMA Premium Efficiency Three-Phase

Product code : 14427832



Performance : 415 V 50 Hz 4P IE3

Rated current : 234 A
 LRC : 6.7
 Rated torque : 85.5 kgfm
 Locked rotor torque : 229 %
 Breakdown torque : 270 %
 Rated speed : 1485 rpm

Moment of inertia (J) : 1.96 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 80 K
 Design : B

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