

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :					
Product line : W40 NEMA Premium Efficiency Three-Phase		Product code : 14432859			
Frame : 404/5T	Insulation class : F	Duty cycle : Cont.(S1)	Ambient temperature : -20°C to +40°C	Altitude : 1000 m.a.s.l.	
Protection degree : IP23	Design : B	Cooling method : IC01 - ODP	Mounting : F-1	Rotation ¹ : Both (CW and CCW)	
		Starting method : Direct On Line	Approx. weight ³ : 480 kg	Moment of inertia (J) : 1.08 kgm ²	
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	
Bearing type	Drive end : NU-316 C3	Non drive end : 6314 C3	Foundation loads		
Sealing	Without	Without	Max. traction	: 1304 kgf	
	Bearing Seal	Bearing Seal	Max. compression	: 1784 kgf	
Lubrication interval	: 20000 h	20000 h			
Lubricant amount	: 34 g	27 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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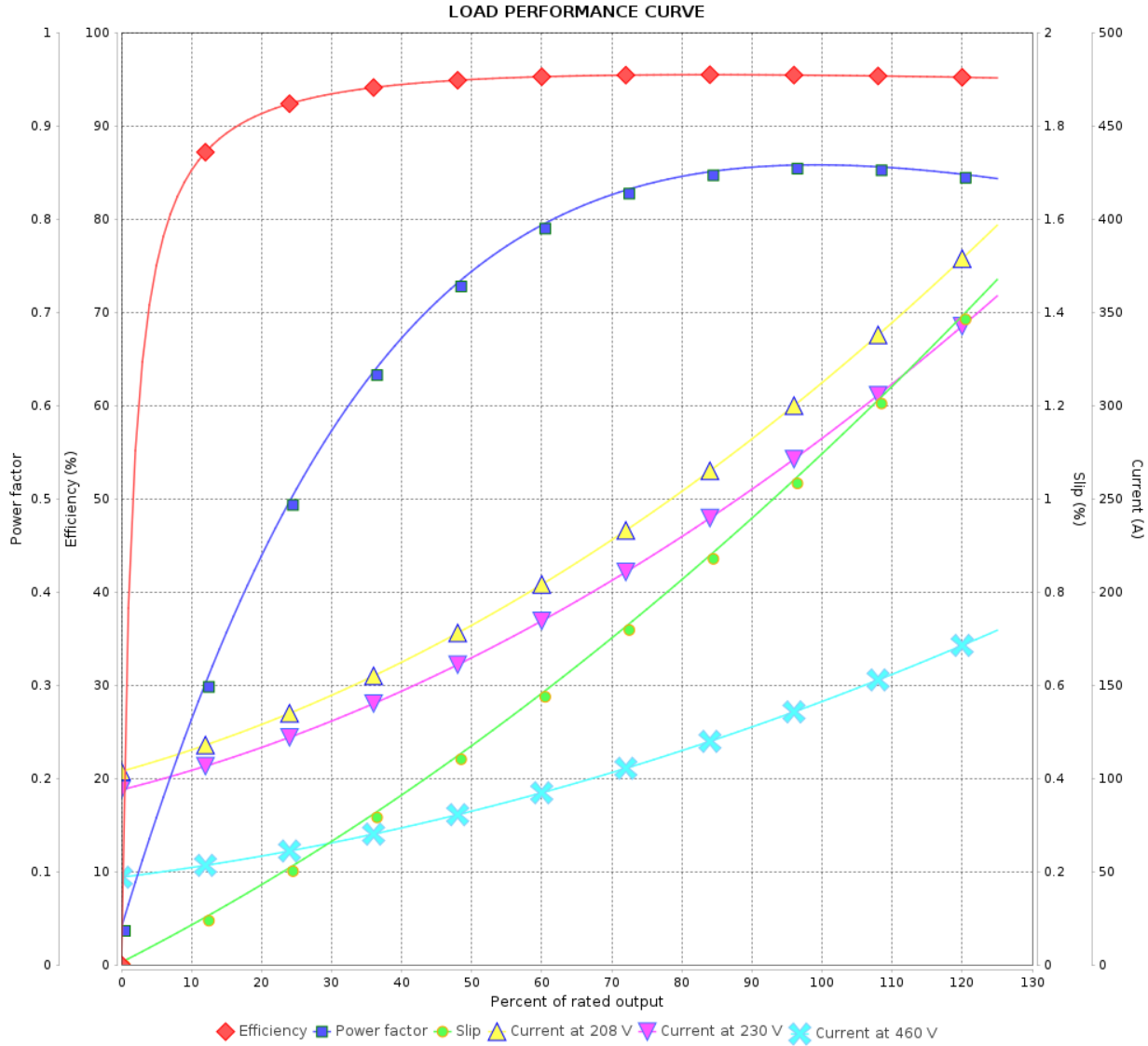
Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : W40 NEMA Premium Efficiency Three-Phase

Product code : 14432859



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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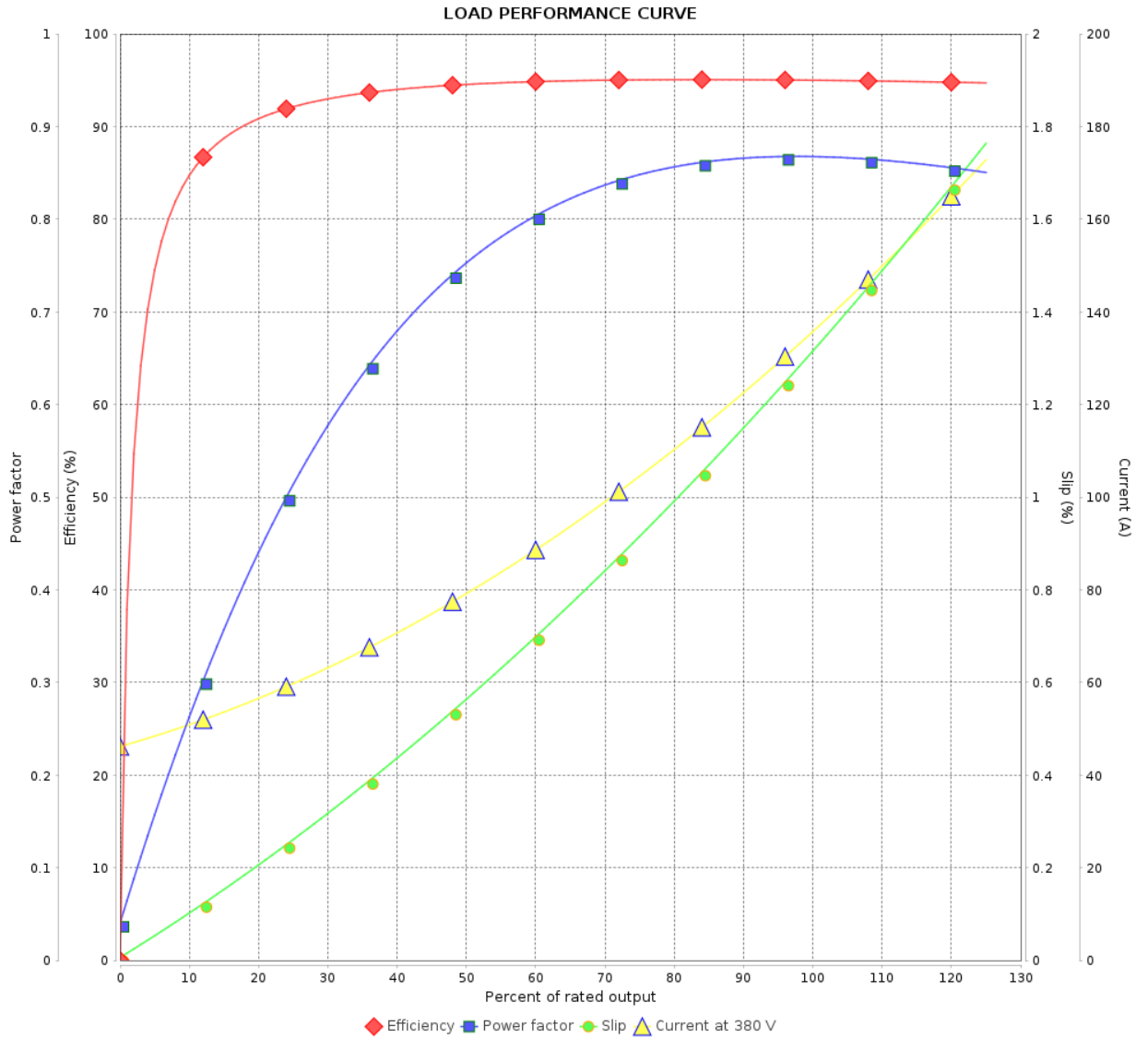
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W40 NEMA Premium Efficiency Three-Phase

Product code : 14432859



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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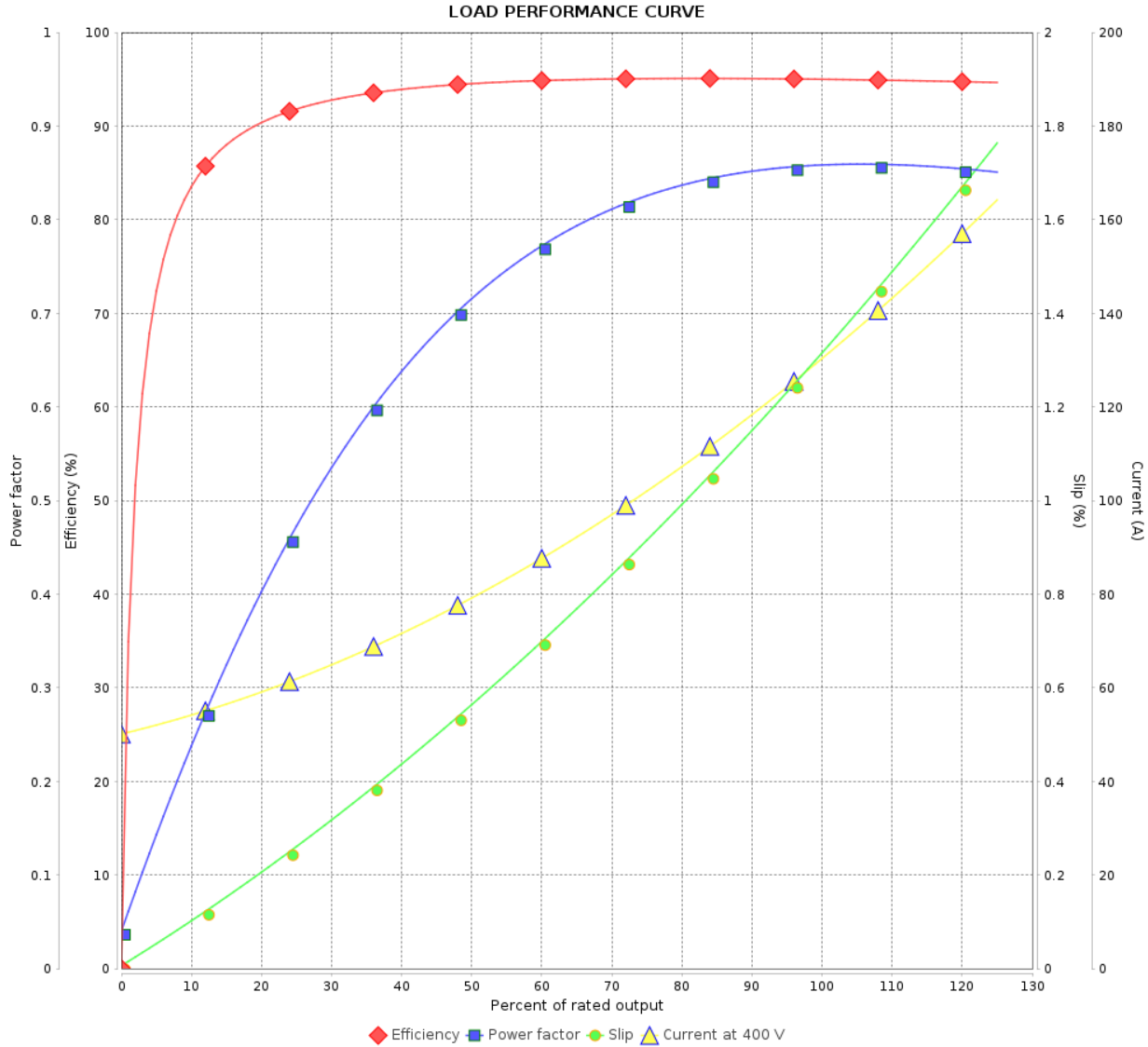
Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : W40 NEMA Premium Efficiency Three-Phase

Product code : 14432859



Performance : 400 V 50 Hz 4P IE3

Rated current : 133 A
 LRC : 7.7
 Rated torque : 49.0 kgfm
 Locked rotor torque : 270 %
 Breakdown torque : 300 %
 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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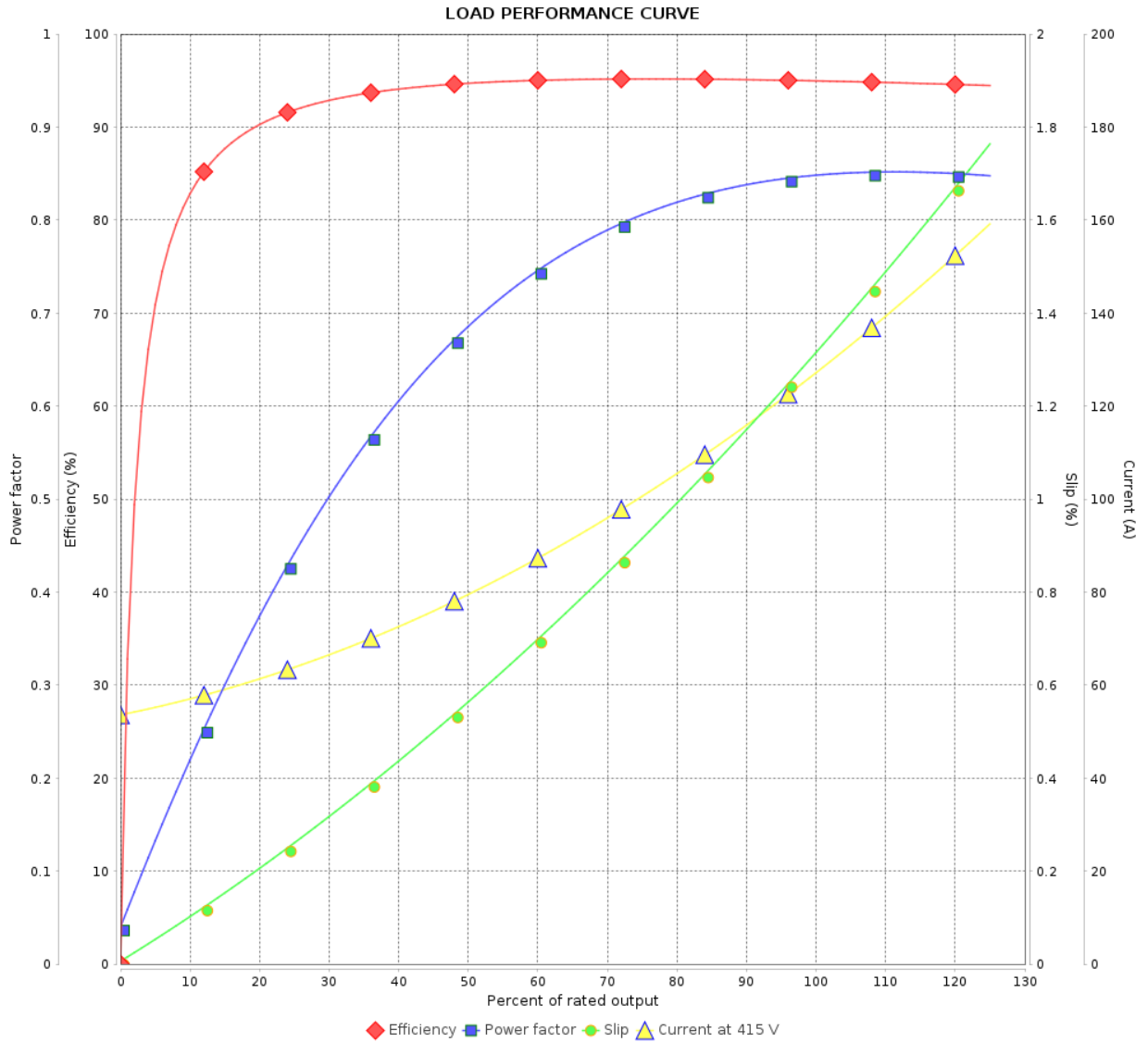
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W40 NEMA Premium Efficiency Three-Phase

Product code : 14432859



Performance : 415 V 50 Hz 4P IE3

Rated current : 129 A
 LRC : 8.0
 Rated torque : 49.0 kgfm
 Locked rotor torque : 290 %
 Breakdown torque : 320 %
 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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