

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :					
Product line	: W40 NEMA Premium Efficiency Three-Phase	Product code :	14495708		
Frame	: 284/6TC	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	: 182 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	92.0
	50%	93.6	92.2	92.2	92.2
	75%	94.1	92.6	92.6	92.6
	100%	94.1	92.6	92.6	92.6
Power Factor	25%	0.46	0.47	0.42	0.40
	50%	0.70	0.70	0.66	0.63
	75%	0.80	0.80	0.78	0.75
	100%	0.84	0.85	0.83	0.81
Bearing type	: <u>Drive end</u> 6311 Z C3 <u>Non drive end</u> 6211 Z C3	Foundation loads			
Sealing	: Without Bearing Seal Without Bearing Seal	Max. traction			
Lubrication interval	: 20000 h 20000 h	Max. compression			
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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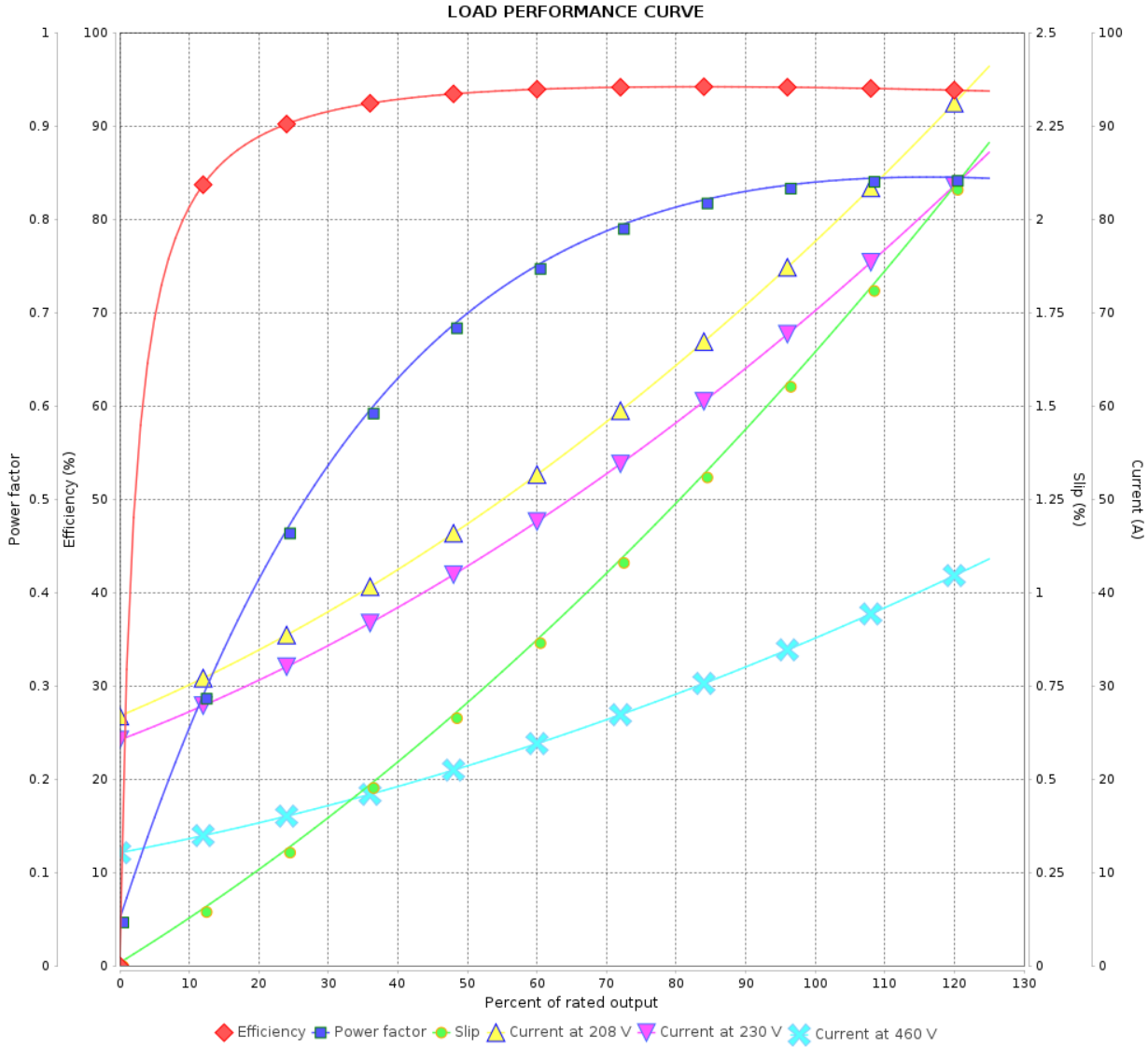
Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : W40 NEMA Premium Efficiency Three-Phase

Product code : 14495708



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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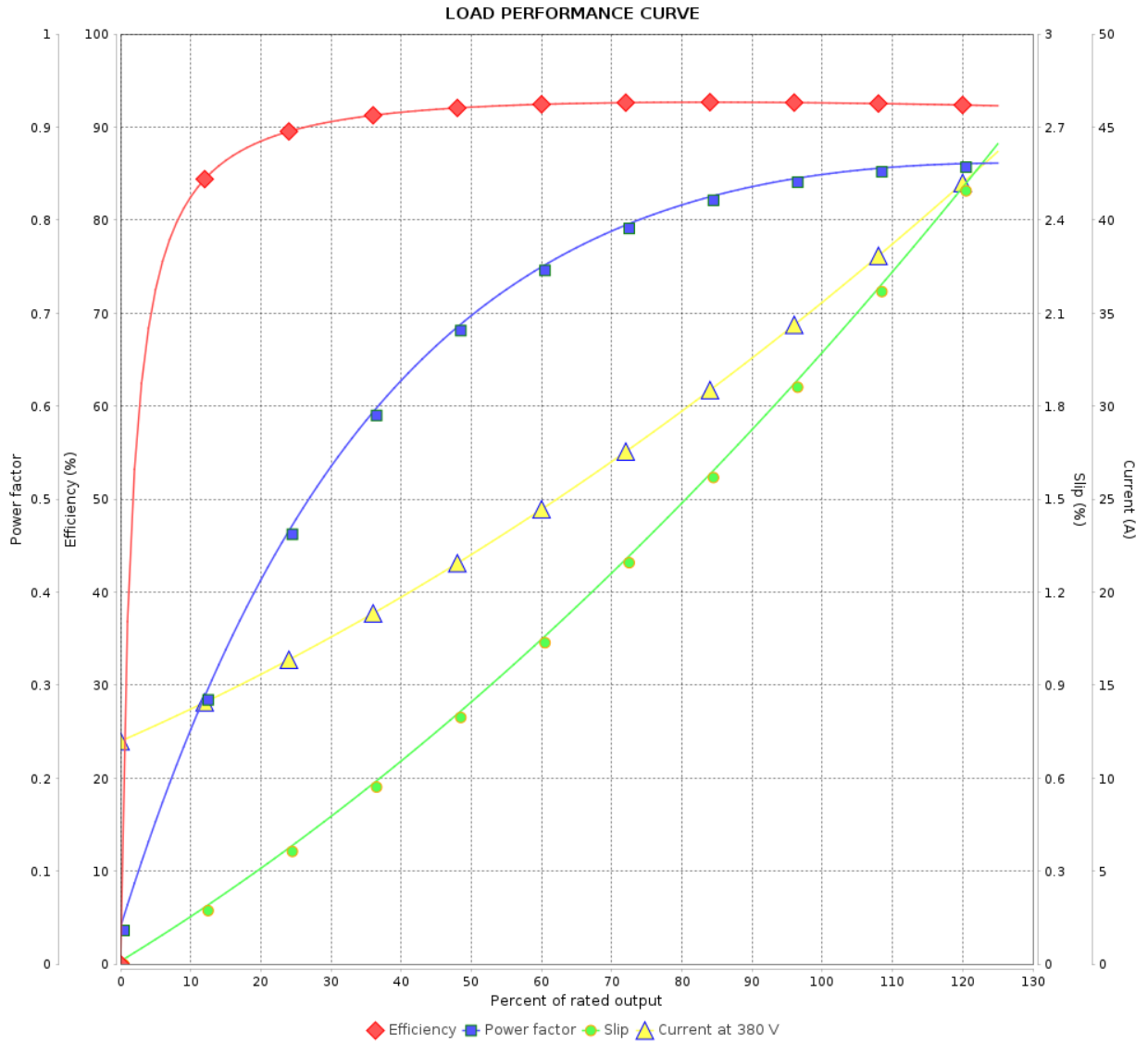
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W40 NEMA Premium Efficiency Three-Phase

Product code : 14495708



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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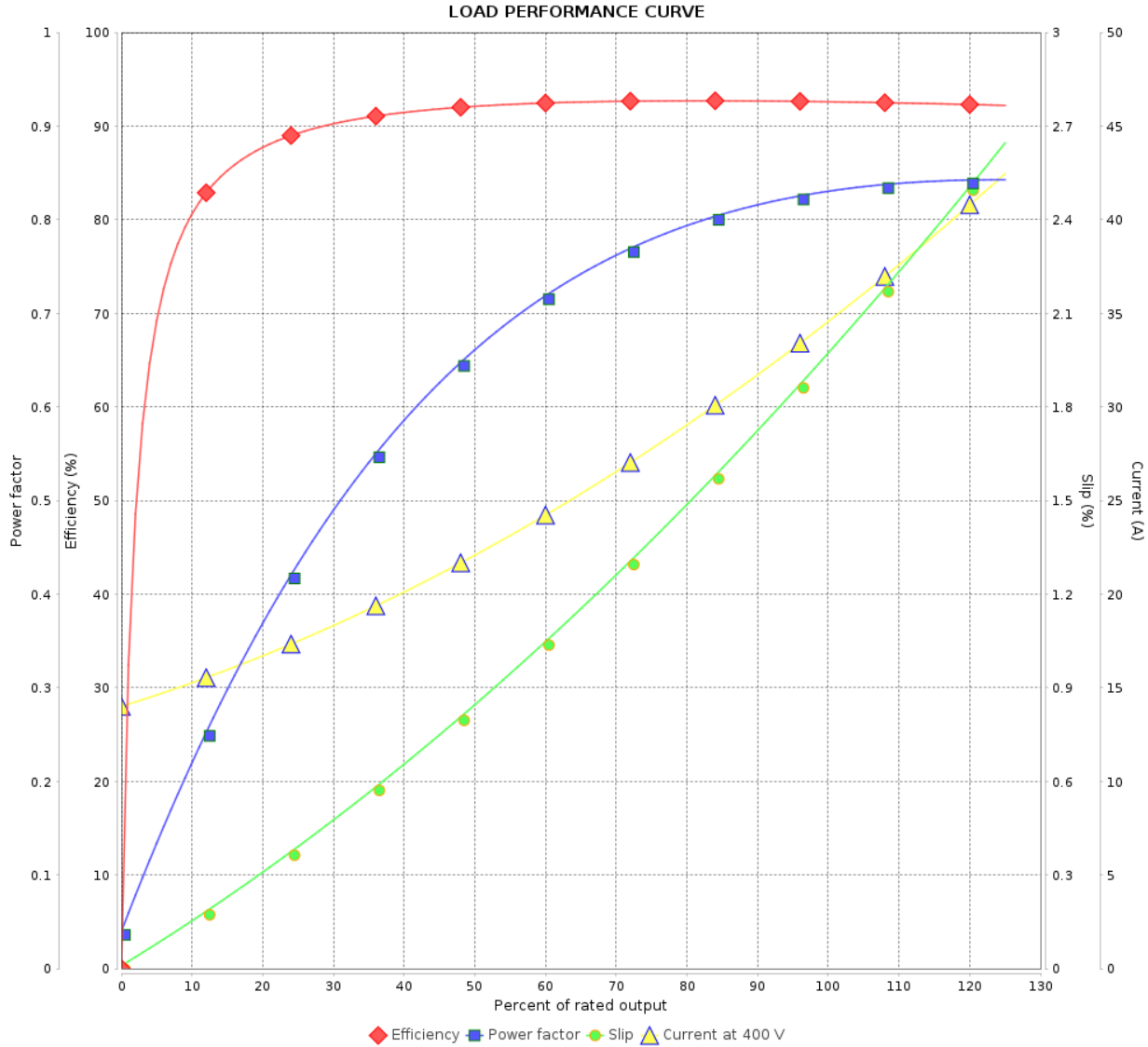
Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : W40 NEMA Premium Efficiency Three-Phase

Product code : 14495708



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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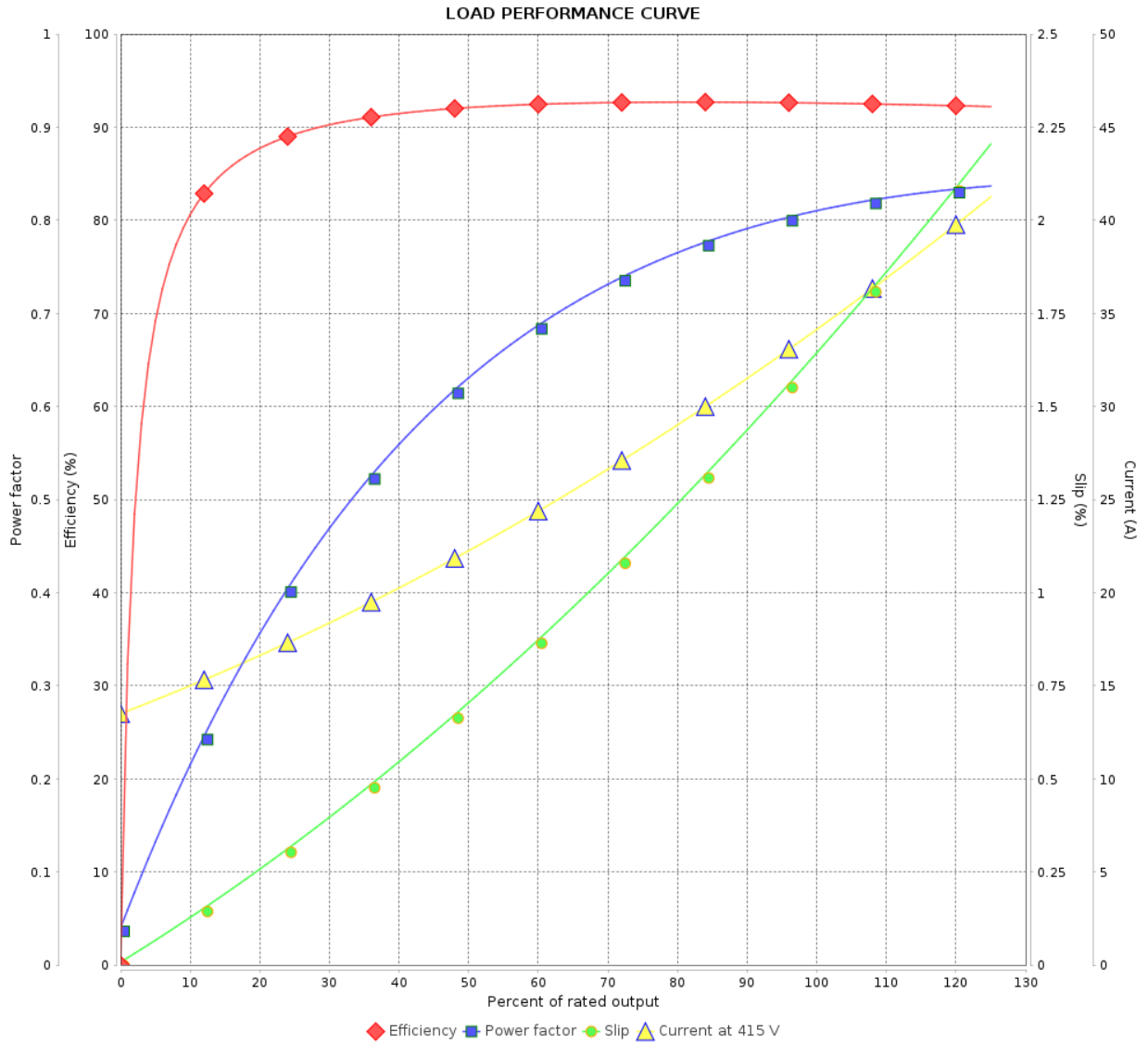
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W40 NEMA Premium Efficiency Three-Phase

Product code : 14495708



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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