

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :					
Product line : W40 NEMA Premium Efficiency Three-Phase		Product code : 1556114			
Frame : 364/5TC	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 : 350 kg	Moment of inertia (J) : 0.6555 kgm ²	
Output [HP]	60	50	50	50	
Poles	4	4	4	4	
Frequency [Hz]	60	50	50	50	
Rated voltage [V]	230/460	380	400	415	
Rated current [A]	140/69.9	69.6	66.9	65.3	
L. R. Amperes [A]	909/454	473	482	457	
LRC [A]	6.5x(Code G)	6.8x(Code G)	7.2x(Code H)	7.0x(Code H)	
No load current [A]	49.4/24.7	24.4	26.2	27.7	
Rated speed [RPM]	1780	1480	1480	1485	
Slip [%]	1.11	1.33	1.33	1.00	
Rated torque [kgfm]	24.5	24.5	24.5	24.4	
Locked rotor torque [%]	200	200	220	240	
Breakdown torque [%]	240	229	250	270	
Service factor	1.25	1.00	1.00	1.00	
Temperature rise	80 K	80 K	80 K	80 K	
Locked rotor time	34s (cold) 19s (hot)	32s (cold) 18s (hot)	30s (cold) 17s (hot)	28s (cold) 16s (hot)	
Noise level ²	69.0 dB(A)				
Efficiency (%)	25%				
	50%	94.5	93.5	93.5	
	75%	95.0	93.9	93.9	
	100%	95.0	93.9	93.9	
Power Factor	25%				
	50%	0.73	0.74	0.71	
	75%	0.82	0.83	0.81	
	100%	0.85	0.86	0.85	
Bearing type	: Drive end : 6314 C3	: Non drive end : 6212 Z C3	Foundation loads		
Sealing	: Without	: Without	Max. traction	: 566 kgf	
	: Bearing Seal	: Bearing Seal	Max. compression	: 917 kgf	
Lubrication interval	: 20000 h	: 20000 h			
Lubricant amount	: 27 g	: 13 g			
Lubricant type	: Mobil Polyrex EM				
Notes USABLE @208V 155A SF 1.15 SFA 178A					
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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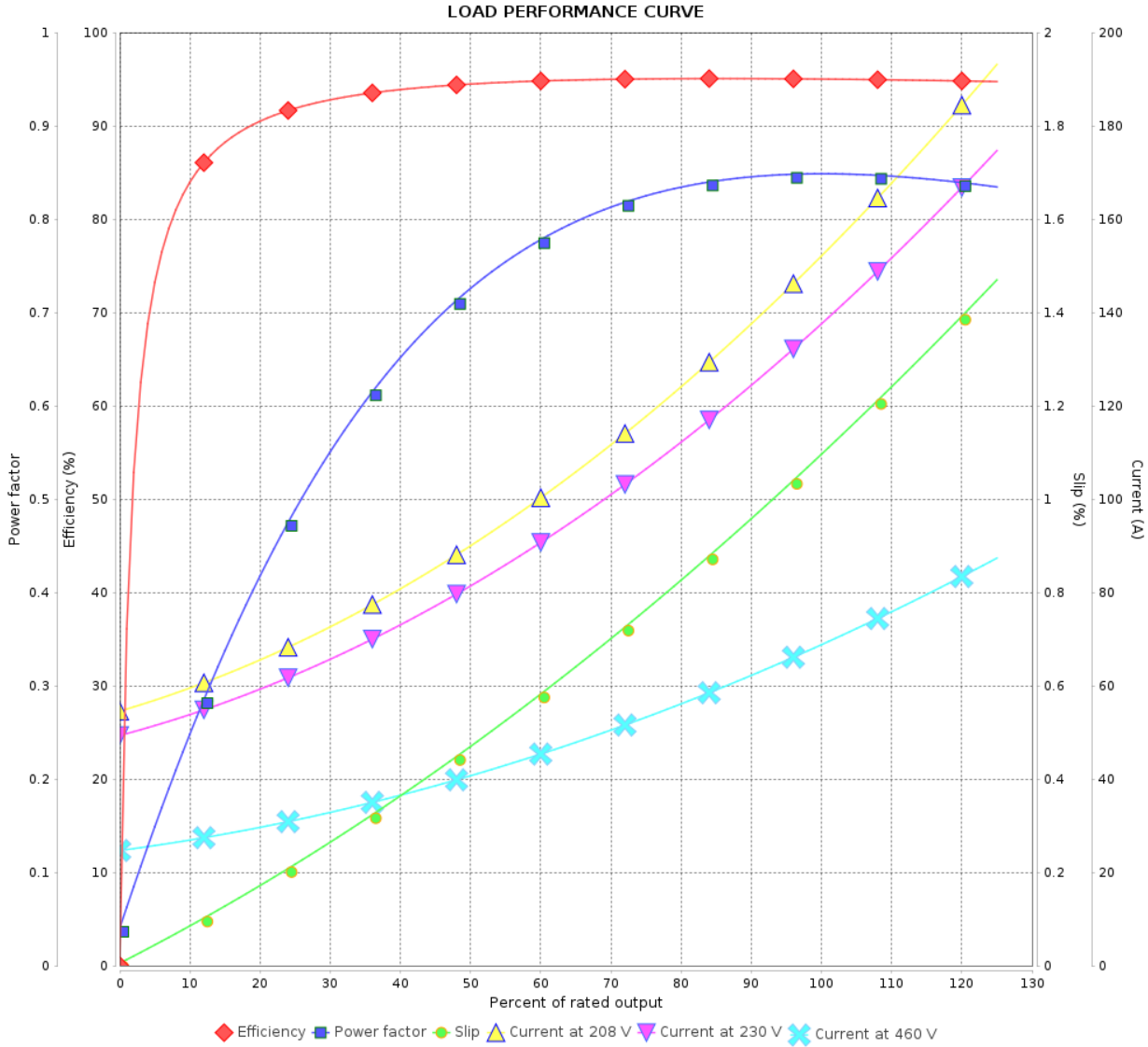
Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : W40 NEMA Premium Efficiency Three-Phase

Product code : 15556114



Performance : 230/460 V 60 Hz 4P

Rated current : 140/69.9 A
 LRC : 6.5
 Rated torque : 24.5 kgfm
 Locked rotor torque : 200 %
 Breakdown torque : 240 %
 Rated speed : 1780 rpm

Moment of inertia (J) : 0.6555 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.25
 Temperature rise : 80 K
 Design : B

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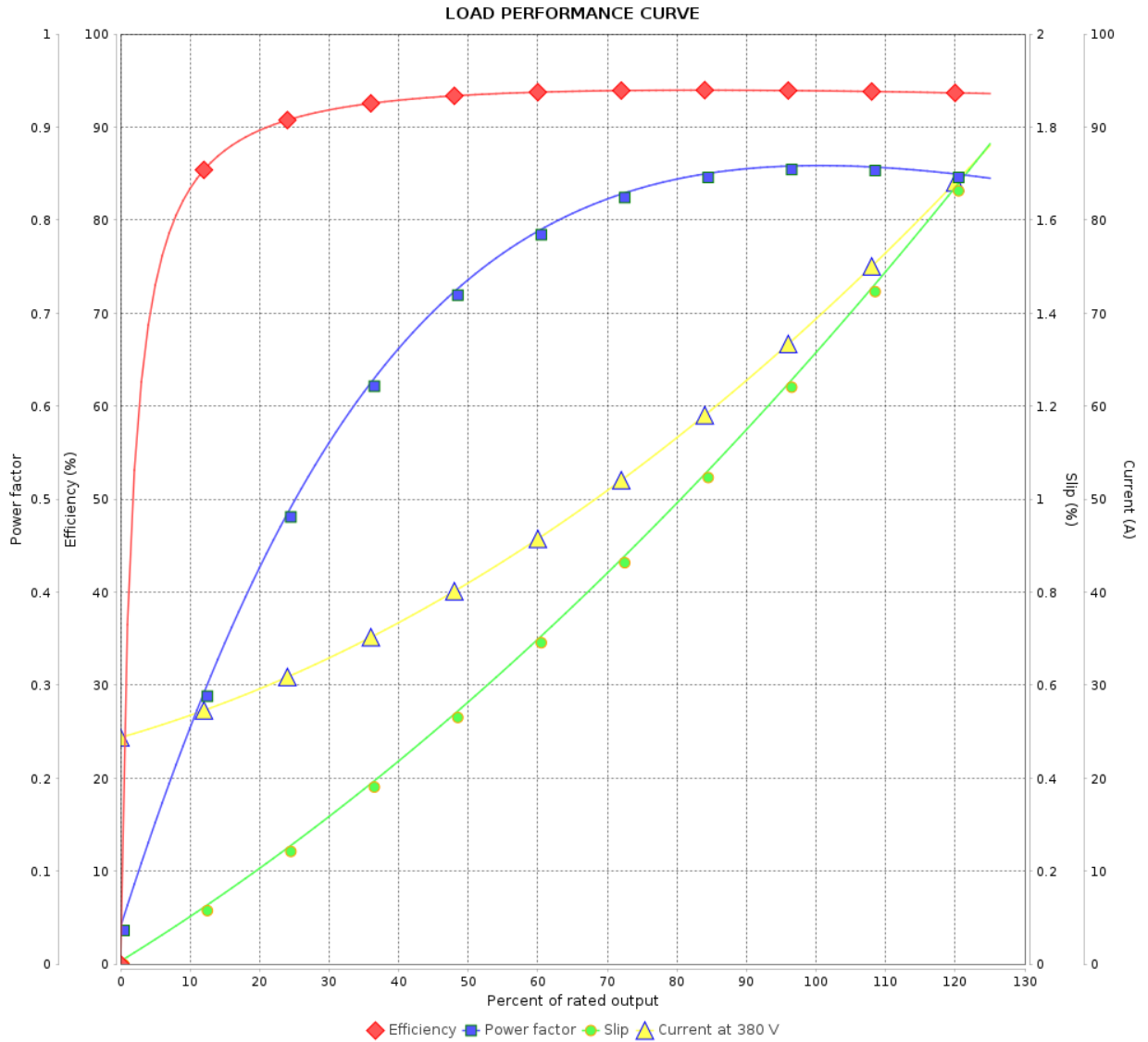
Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : W40 NEMA Premium Efficiency Three-Phase

Product code : 15556114



Performance : 380 V 50 Hz 4P IE3

Rated current : 69.6 A
 LRC : 6.8
 Rated torque : 24.5 kgfm
 Locked rotor torque : 200 %
 Breakdown torque : 229 %
 Rated speed : 1480 rpm

Moment of inertia (J) : 0.6555 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 80 K
 Design : B

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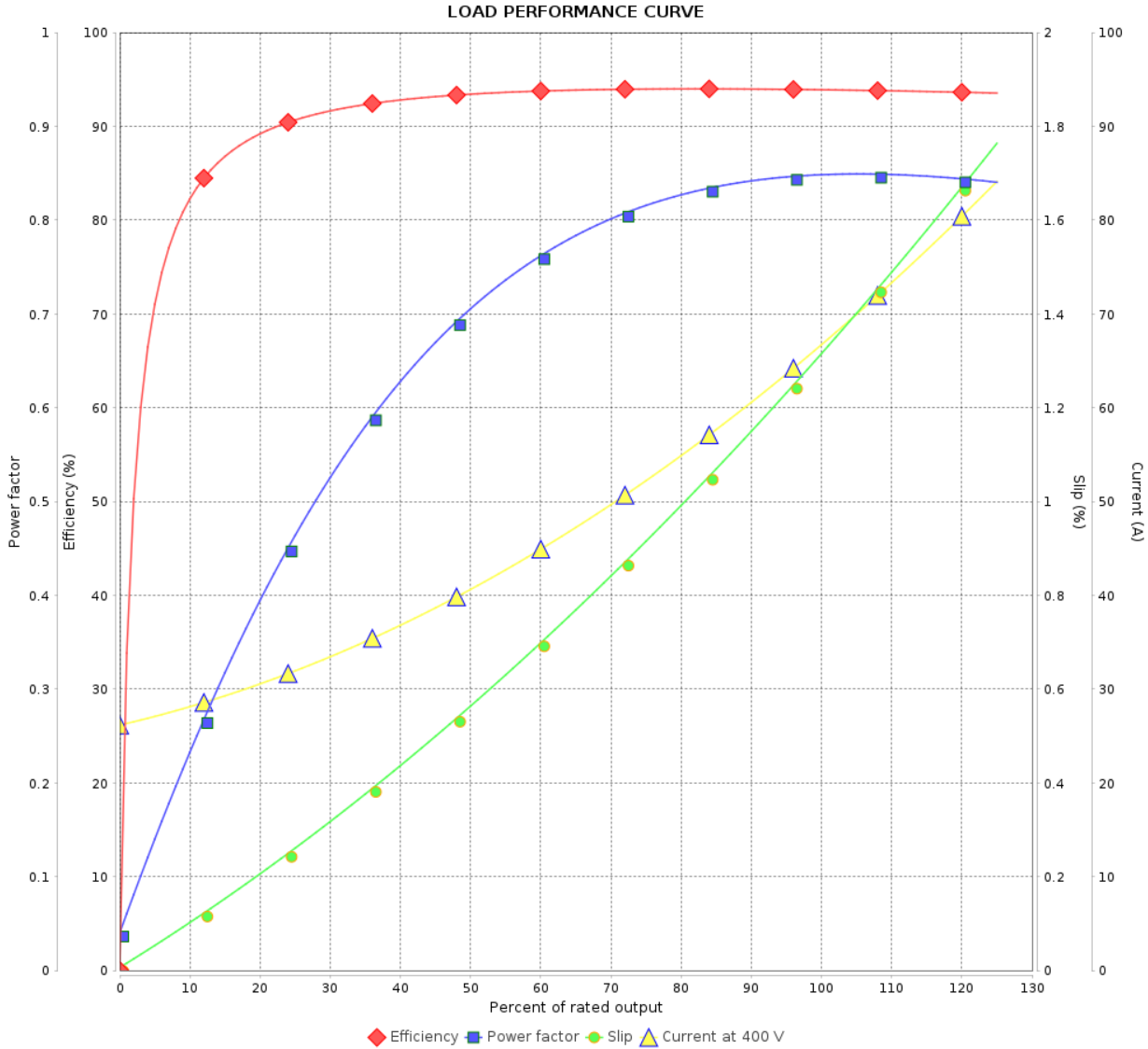
Three Phase Induction Motor - Squirrel Cage



Customer : _____

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Product code : 15556114



Performance : 400 V 50 Hz 4P IE3

Rated current : 66.9 A
 LRC : 7.2
 Rated torque : 24.5 kgfm
 Locked rotor torque : 220 %
 Breakdown torque : 250 %
 Rated speed : 1480 rpm

Moment of inertia (J) : 0.6555 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 80 K
 Design : B

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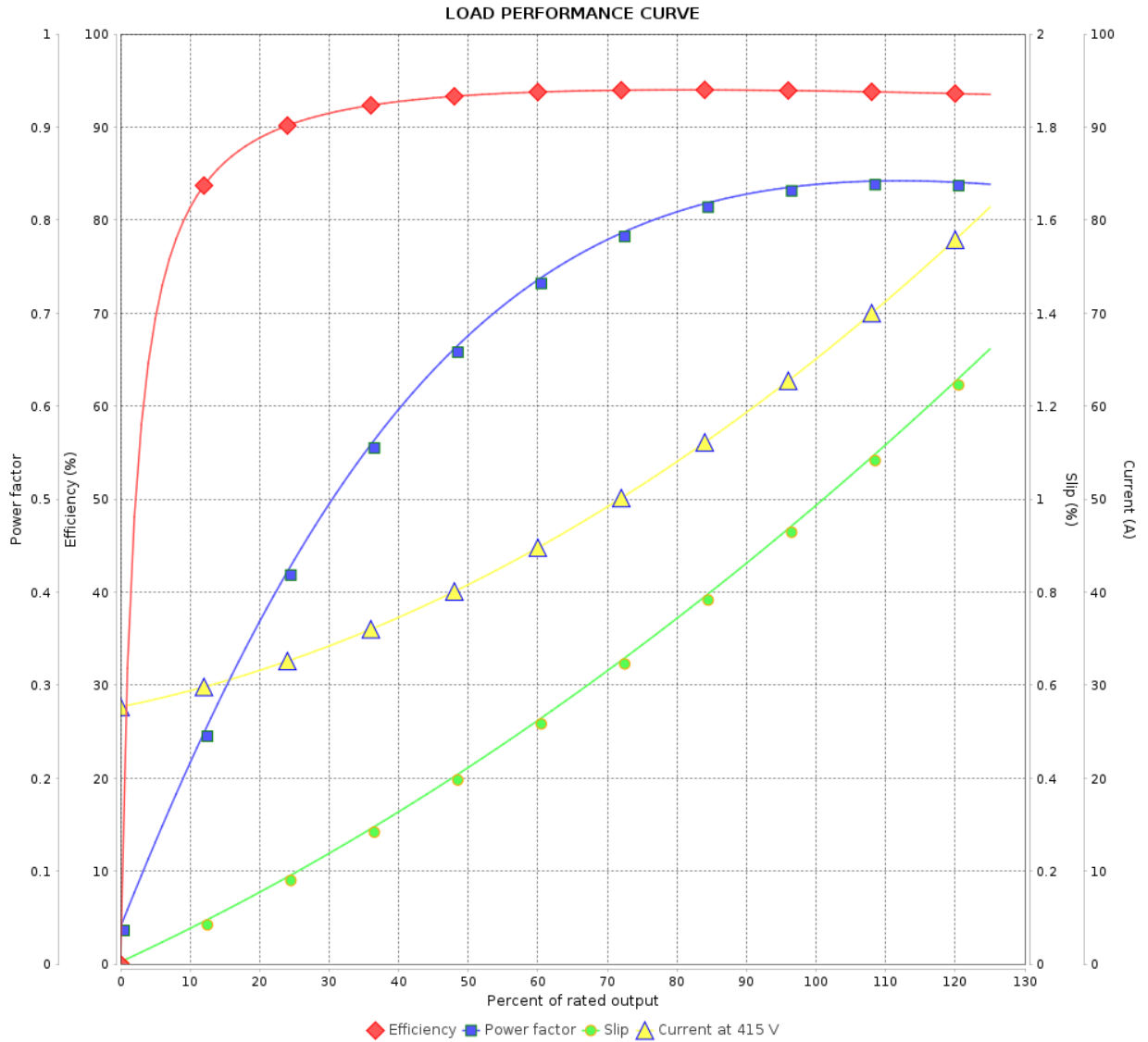
Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : W40 NEMA Premium Efficiency Three-Phase

Product code : 15556114



Performance : 415 V 50 Hz 4P IE3

Rated current : 65.3 A
 LRC : 7.0
 Rated torque : 24.4 kgfm
 Locked rotor torque : 240 %
 Breakdown torque : 270 %
 Rated speed : 1485 rpm

Moment of inertia (J) : 0.6555 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 80 K
 Design : B

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