

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :					
Product line		: W21 Explosion Proof NEMA Premium Efficiency Three-Phase		Product code :	12552058
Frame	: 447T	Cooling method	: IC411 - TEFC		
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	: 1219 kg		
Protection degree	: IP55	Moment of inertia (J)	: 5.63 kgm ²		
Design	: B				
Output [HP]	200	150	150	150	150
Poles	6	6	6	6	6
Frequency [Hz]	60	50	50	50	50
Rated voltage [V]	230/460	380	400	415	415
Rated current [A]	498/249	228	225	223	223
L. R. Amperes [A]	3884/1942	1824	1980	2052	2052
LRC [A]	7.8x(Code J)	8.0x(Code K)	8.8x(Code L)	9.2x(Code L)	9.2x(Code L)
No load current [A]	250/125	123	132	140	140
Rated speed [RPM]	1190	990	990	990	990
Slip [%]	0.83	1.00	1.00	1.00	1.00
Rated torque [kgfm]	122	110	110	110	110
Locked rotor torque [%]	270	270	300	340	340
Breakdown torque [%]	280	300	320	360	360
Service factor	1.15	1.00	1.00	1.00	1.00
Temperature rise	80 K	80 K	80 K	80 K	80 K
Locked rotor time	25s (cold) 14s (hot)	21s (cold) 12s (hot)	21s (cold) 12s (hot)	21s (cold) 12s (hot)	21s (cold) 12s (hot)
Noise level ²	73.0 dB(A)	73.0 dB(A)	73.0 dB(A)	73.0 dB(A)	73.0 dB(A)
Efficiency (%)	25%				
	50%	94.5	94.0	93.6	93.0
	75%	95.4	95.0	94.5	94.5
	100%	95.8	95.4	95.4	95.4
Power Factor	25%				
	50%	0.60	0.57	0.52	0.50
	75%	0.73	0.70	0.66	0.63
	100%	0.79	0.77	0.74	0.72
Bearing type	: <u>Drive end</u> NU-319 C3	<u>Non drive end</u> 6316 C3	Foundation loads		
Sealing	: Viton	Viton Seal	Max. traction	: 2853 kgf	
	Oil Seal		Max. compression	: 4072 kgf	
Lubrication interval	: 7683 h	12823 h			
Lubricant amount	: 45 g	34 g			
Lubricant type	: Mobil Polyrex EM				
Notes USABLE @208V 551A SF 1.00 SFA 551A					
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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Customer : _____

Thermal protection

ID	Application	Type	Quantity	Sensing Temperature
1	Winding	Thermostat - 2 wires	1 x Phase	155 °C

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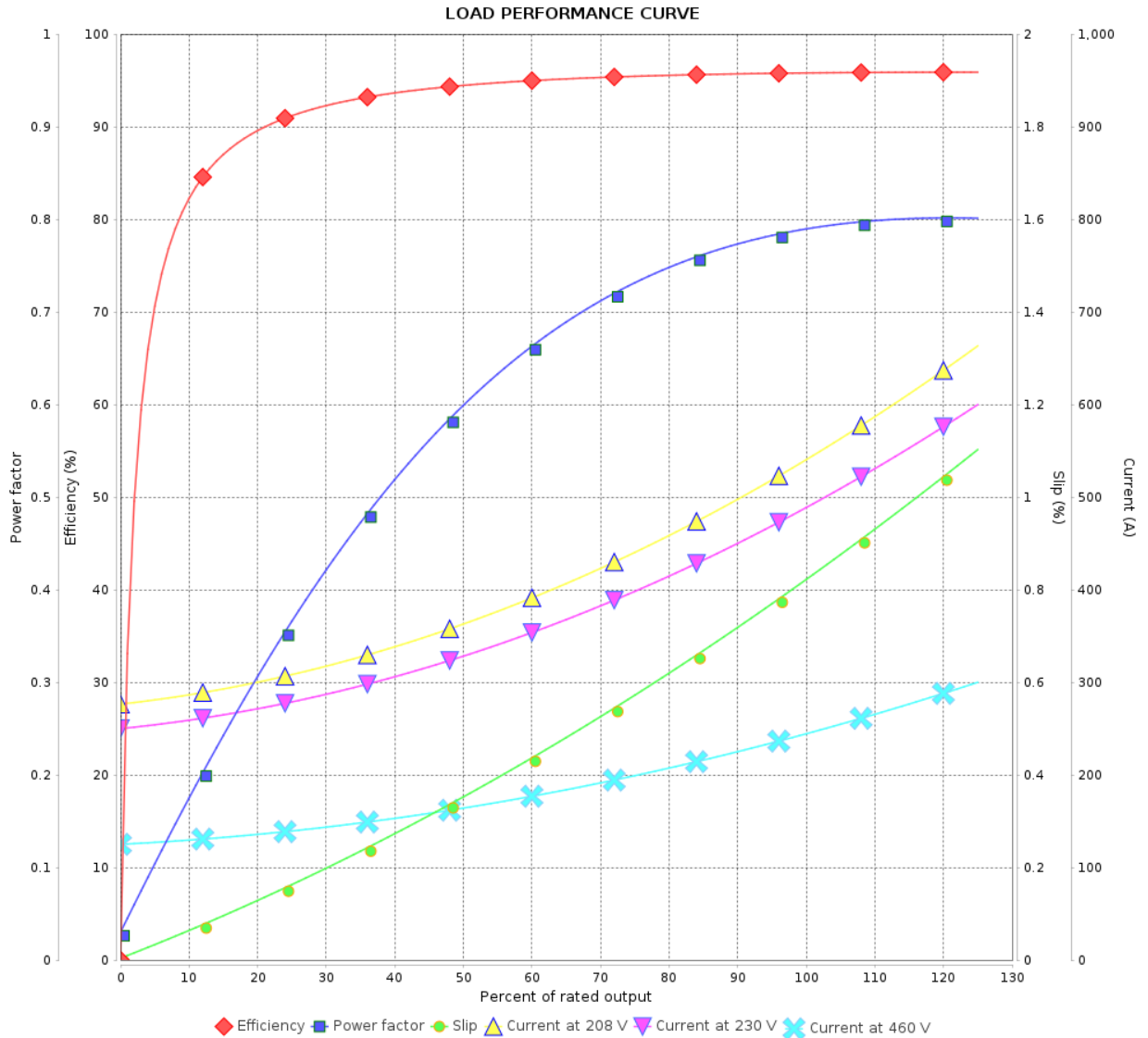
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W21 Explosion Proof NEMA Premium
Efficiency Three-Phase

Product code : 12552058



Performance : 230/460 V 60 Hz 6P

Rated current : 498/249 A
LRC : 7.8
Rated torque : 122 kgfm
Locked rotor torque : 270 %
Breakdown torque : 280 %
Rated speed : 1190 rpm

Moment of inertia (J) : 5.63 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.15
Temperature rise : 80 K
Design : B

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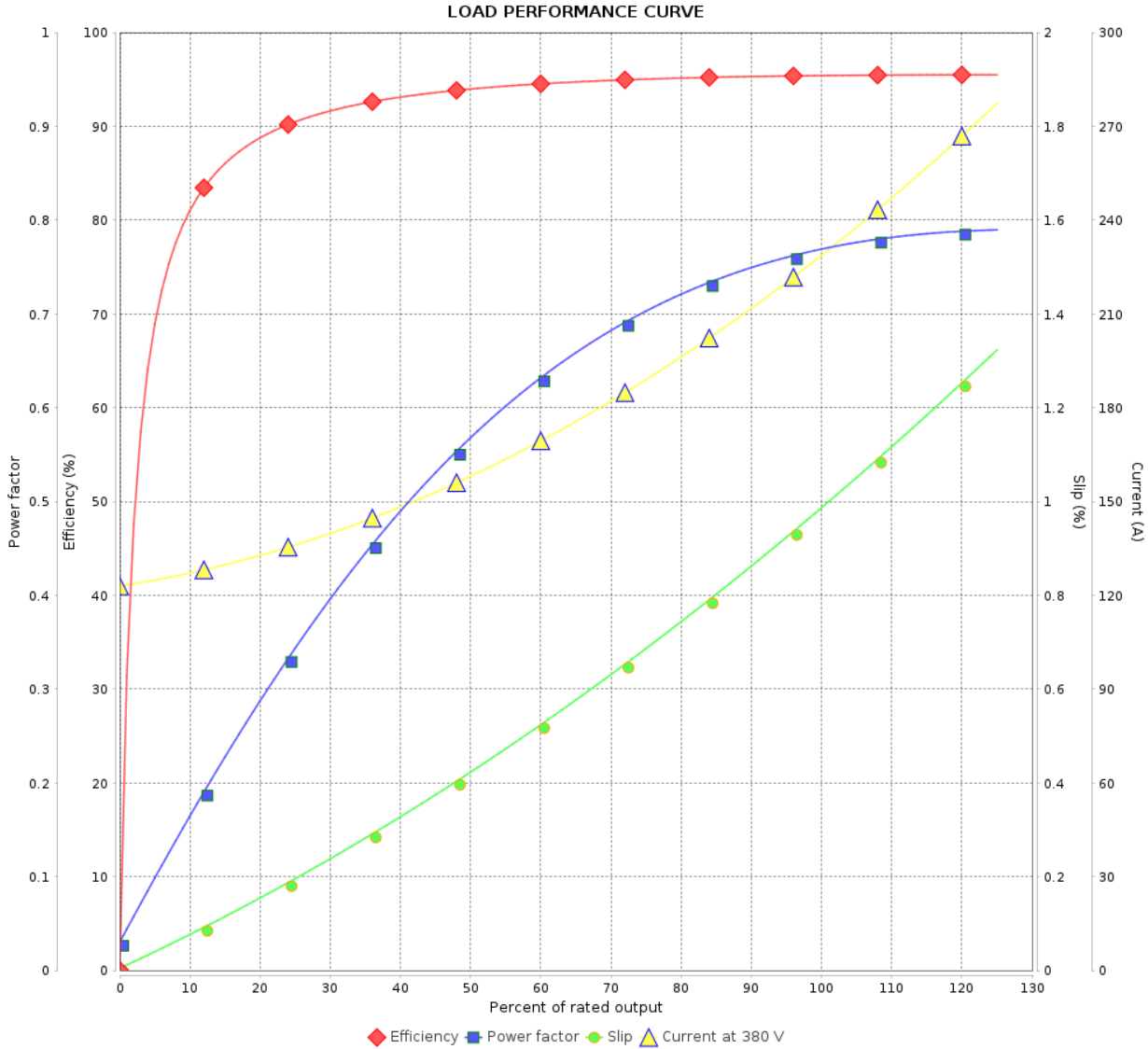
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W21 Explosion Proof NEMA Premium
Efficiency Three-Phase

Product code : 12552058



Performance : 380 V 50 Hz 6P IE3

Rated current	: 228 A	Moment of inertia (J)	: 5.63 kgm ²
LRC	: 8.0	Duty cycle	: Cont.(S1)
Rated torque	: 110 kgfm	Insulation class	: F
Locked rotor torque	: 270 %	Service factor	: 1.00
Breakdown torque	: 300 %	Temperature rise	: 80 K
Rated speed	: 990 rpm	Design	: B

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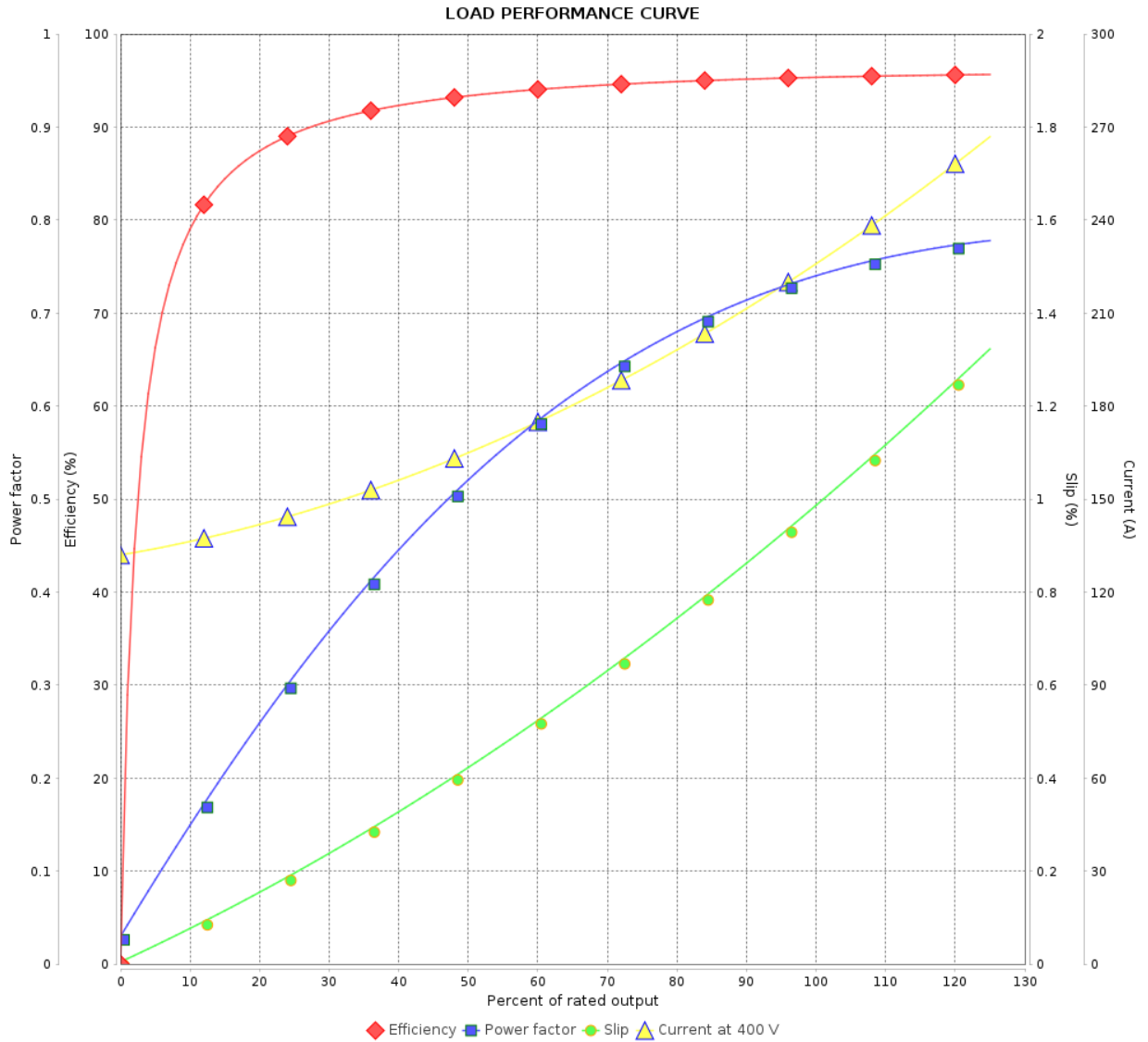
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W21 Explosion Proof NEMA Premium Efficiency Three-Phase

Product code : 12552058



Performance : 400 V 50 Hz 6P IE3

Rated current : 225 A
 LRC : 8.8
 Rated torque : 110 kgfm
 Locked rotor torque : 300 %
 Breakdown torque : 320 %
 Rated speed : 990 rpm

Moment of inertia (J) : 5.63 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 80 K
 Design : B

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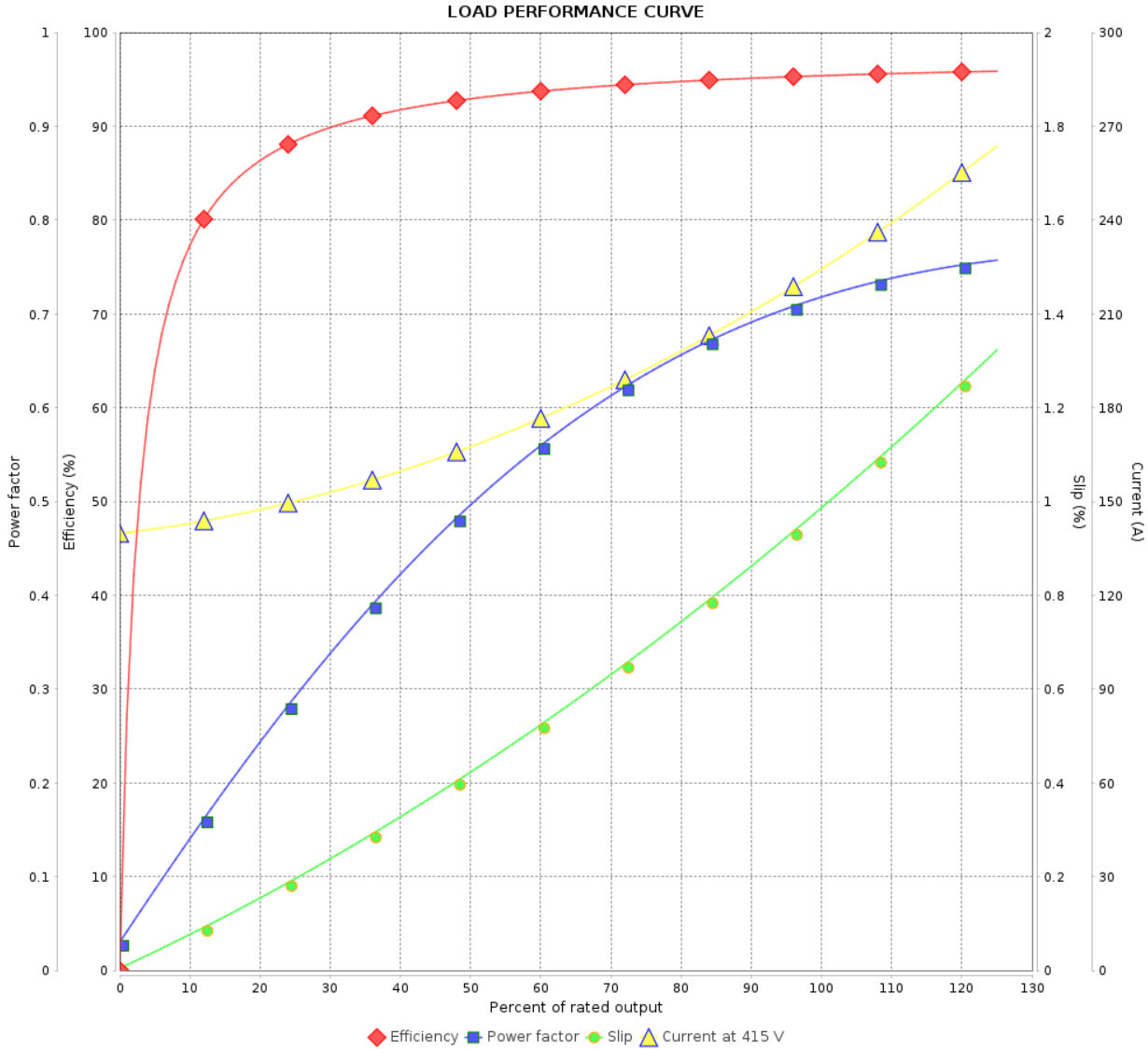
Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : W21 Explosion Proof NEMA Premium
Efficiency Three-Phase

Product code : 12552058



Performance : 415 V 50 Hz 6P IE3

Rated current : 223 A
LRC : 9.2
Rated torque : 110 kgfm
Locked rotor torque : 340 %
Breakdown torque : 360 %
Rated speed : 990 rpm

Moment of inertia (J) : 5.63 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.00
Temperature rise : 80 K
Design : B

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