

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :					
Product line	: W22 NEMA Premium Efficiency Three-Phase	Product code :	14101151		
Frame	: 586/7T	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	: 1989 kg		
Protection degree	: IP55	Moment of inertia (J)	: 15.5 kgm ²		
Output [HP]	400	350	350	350	
Poles	6	6	6	6	
Frequency [Hz]	60	50	50	50	
Rated voltage [V]	460	380	400	415	
Rated current [A]	483	503	490	478	
L. R. Amperes [A]	2898	2767	2989	3107	
LRC [A]	6.0x(Code G)	5.5x(Code F)	6.1x(Code G)	6.5x(Code H)	
No load current [A]	190	198	212	226	
Rated speed [RPM]	1192	992	993	993	
Slip [%]	0.67	0.80	0.70	0.70	
Rated torque [kgfm]	244	256	256	256	
Locked rotor torque [%]	200	190	210	229	
Breakdown torque [%]	210	200	220	240	
Service factor	1.00	1.00	1.00	1.00	
Temperature rise	80 K	105 K	105 K	105 K	
Locked rotor time	52s (cold) 29s (hot)	41s (cold) 23s (hot)	41s (cold) 23s (hot)	41s (cold) 23s (hot)	
Noise level ²	77.0 dB(A)	73.0 dB(A)	73.0 dB(A)	73.0 dB(A)	
Efficiency (%)	25%				
	50%	95.4	95.4	95.0	
	75%	95.8	95.8	95.4	
	100%	96.2	95.8	95.8	
Power Factor	25%				
	50%	0.67	0.69	0.62	
	75%	0.77	0.78	0.74	
	100%	0.81	0.82	0.79	
Losses at normative operating points (speed;torque), in percentage of rated output power					
Losses (%)	P1 (0,9;1,0)	4.6	4.6	4.6	
	P2 (0,5;1,0)	3.4	3.4	3.4	
	P3 (0,25;1,0)	2.7	2.7	2.7	
	P4 (0,9;0,5)	2.8	2.8	2.8	
	P5 (0,5;0,5)	1.8	1.8	1.8	
	P6 (0,5;0,25)	1.5	1.5	1.5	
	P7 (0,25;0,25)	0.8	0.8	0.8	
Bearing type	: Drive end : NU-322 C3	Non drive end : 6319 C3	Foundation loads		
Sealing	: Taconite	Taconite	Max. traction	: 3208 kgf	
	Labyrinth	Labyrinth	Max. compression	: 5197 kgf	
Lubrication interval	: 7000 h	13000 h			
Lubricant amount	: 60 g	45 g			
Lubricant type	: Mobil Polyrex EM				
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.			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 : _____

Space heater information

Voltage: 200 - 240 V

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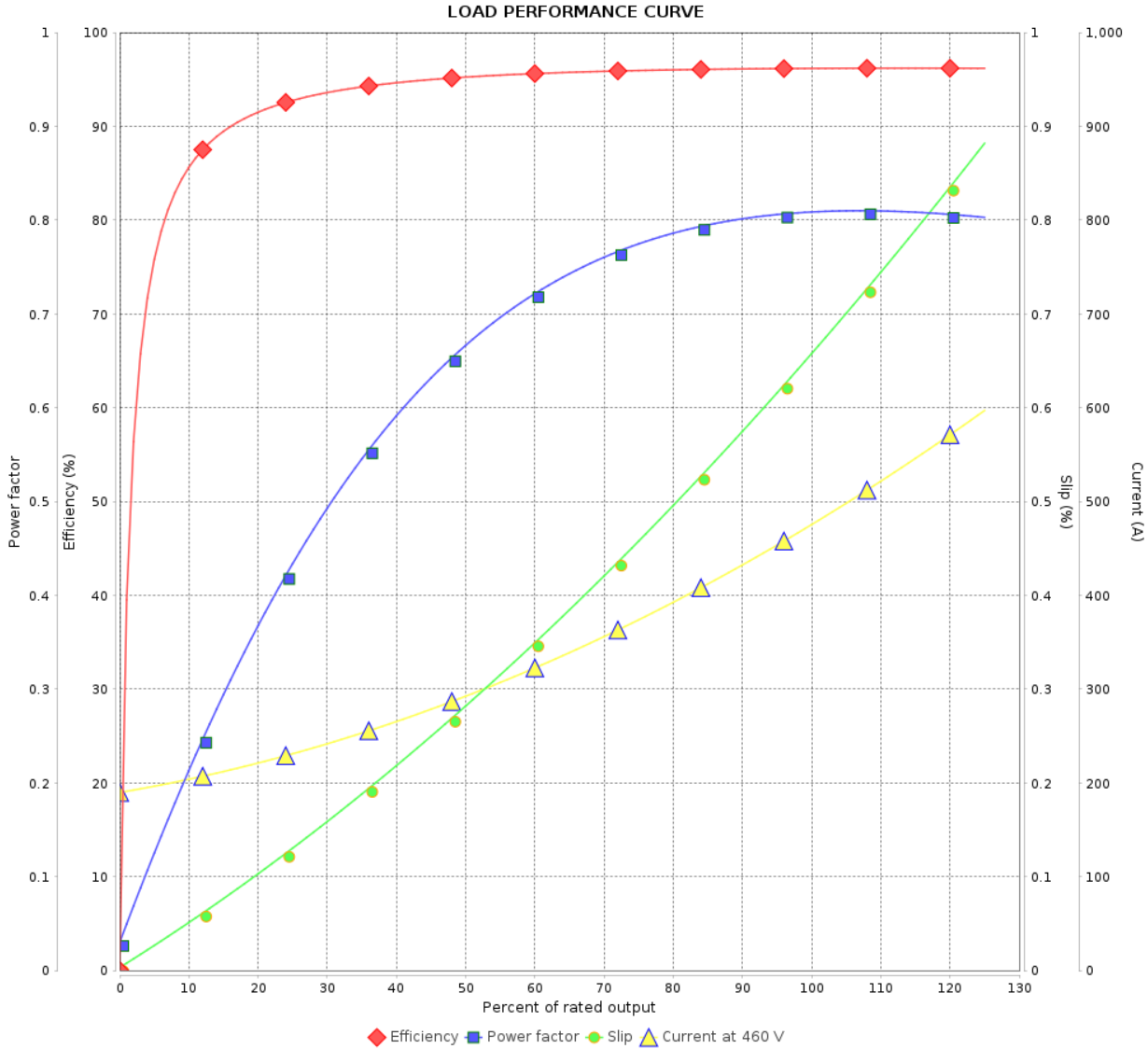
Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 14101151



Performance : 460 V 60 Hz 6P

Rated current : 483 A
 LRC : 6.0
 Rated torque : 244 kgfm
 Locked rotor torque : 200 %
 Breakdown torque : 210 %
 Rated speed : 1192 rpm

Moment of inertia (J) : 15.5 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 80 K

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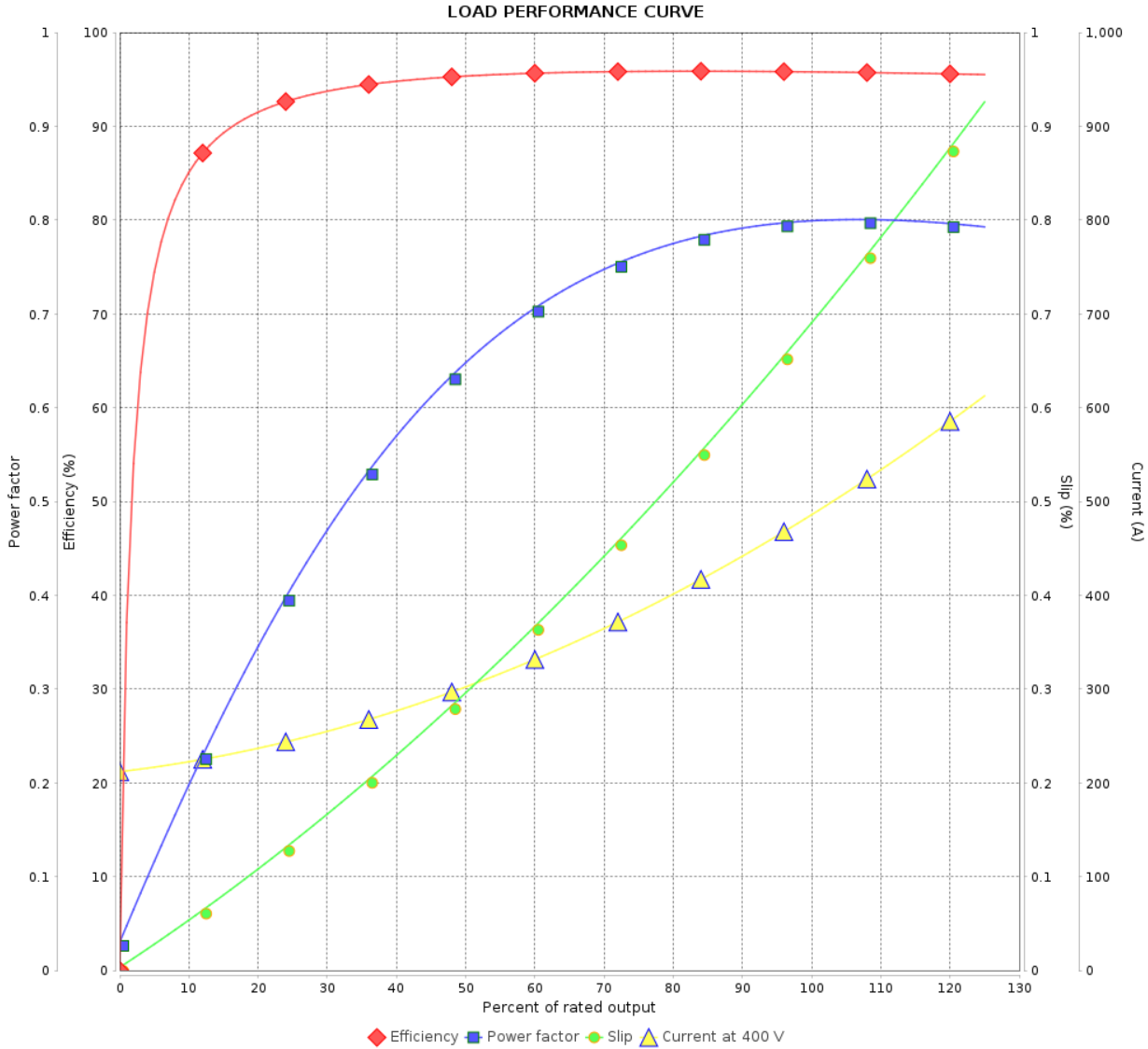
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 14101151



Performance : 400 V 50 Hz 6P IE3

Rated current : 490 A
 LRC : 6.1
 Rated torque : 256 kgfm
 Locked rotor torque : 210 %
 Breakdown torque : 220 %
 Rated speed : 993 rpm

Moment of inertia (J) : 15.5 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 105 K

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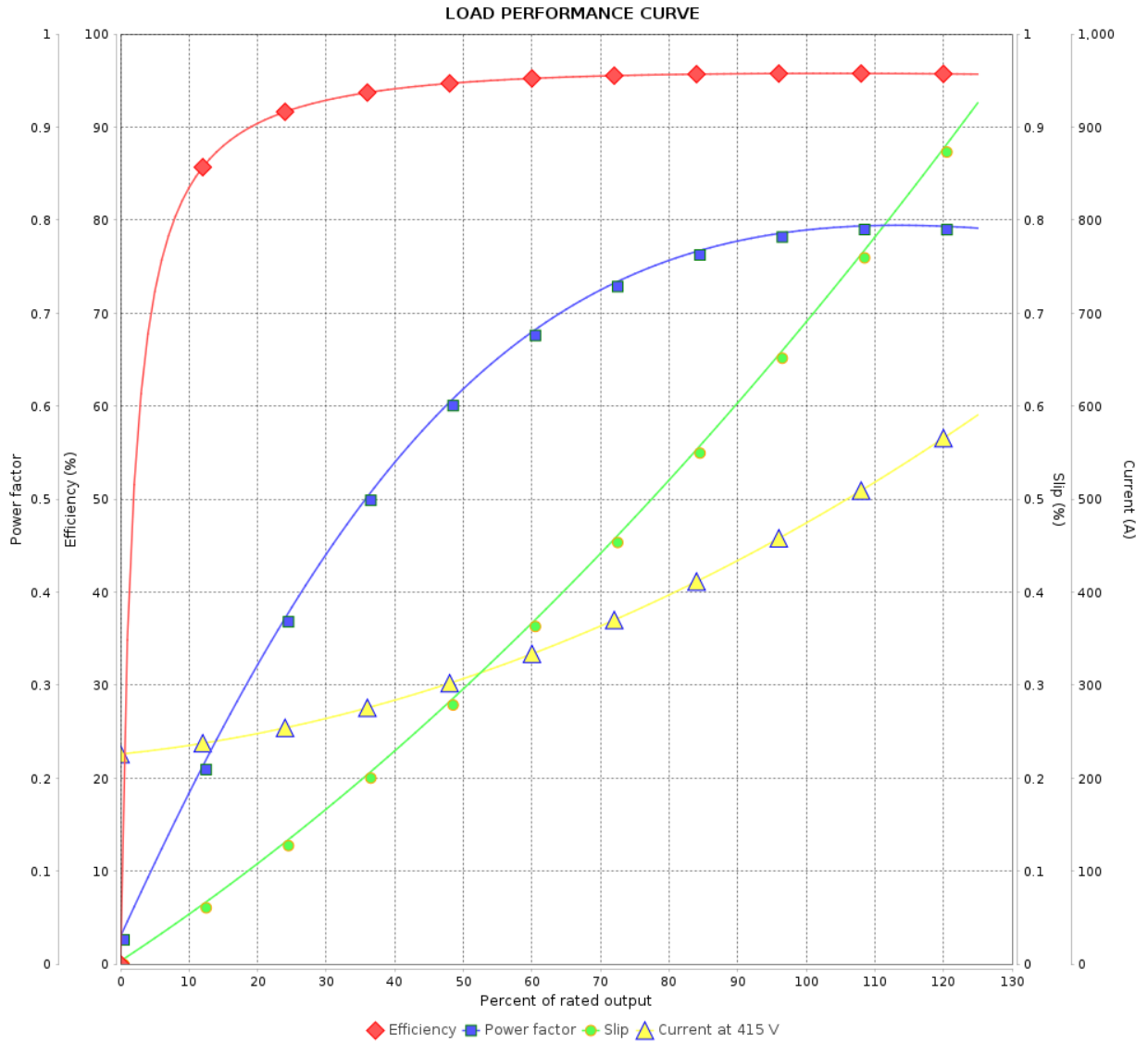
Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 14101151



Performance : 415 V 50 Hz 6P IE3

Rated current : 478 A
 LRC : 6.5
 Rated torque : 256 kgfm
 Locked rotor torque : 229 %
 Breakdown torque : 240 %
 Rated speed : 993 rpm

Moment of inertia (J) : 15.5 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 105 K

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