

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :					
Product line	: W22 NEMA Premium Efficiency Three-Phase	Product code :	12717206		
Frame	: 213/5TC	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	: 71.0 kg		
Protection degree	: IP55	Moment of inertia (J)	: 0.0504 kgm ²		
Design	: B				
Output [HP]	3	3	3	3	
Poles	6	6	6	6	
Frequency [Hz]	60	50	50	50	
Rated voltage [V]	230/460	380	400	415	
Rated current [A]	8.82/4.41	5.09	4.97	4.93	
L. R. Amperes [A]	61.7/30.9	29.5	31.8	33.5	
LRC [A]	7.0x(Code K)	5.8x(Code H)	6.4x(Code J)	6.8x(Code K)	
No load current [A]	5.10/2.55	2.45	2.60	2.75	
Rated speed [RPM]	1175	965	970	970	
Slip [%]	2.08	3.50	3.00	3.00	
Rated torque [kgfm]	1.85	2.26	2.24	2.24	
Locked rotor torque [%]	190	170	180	200	
Breakdown torque [%]	270	229	240	250	
Service factor	1.25	1.00	1.00	1.00	
Temperature rise	80 K	80 K	80 K	80 K	
Locked rotor time	104s (cold) 58s (hot)	72s (cold) 40s (hot)	72s (cold) 40s (hot)	72s (cold) 40s (hot)	
Noise level ²	55.0 dB(A)	53.0 dB(A)	53.0 dB(A)	53.0 dB(A)	
Efficiency (%)	25%				
	50%	86.5	87.0	87.0	
	75%	88.5	88.0	88.0	
	100%	89.5	87.5	87.5	
Power Factor	25%				
	50%	0.50	0.57	0.53	
	75%	0.63	0.70	0.66	
	100%	0.70	0.75	0.73	
Losses at normative operating points (speed;torque), in percentage of rated output power					
Losses (%)	P1 (0,9;1,0)	11.0	13.4	13.4	13.4
	P2 (0,5;1,0)	8.6	10.5	10.5	10.5
	P3 (0,25;1,0)	8.0	9.7	9.7	9.7
	P4 (0,9;0,5)	6.6	8.0	8.0	8.0
	P5 (0,5;0,5)	4.3	5.3	5.3	5.3
	P6 (0,5;0,25)	3.4	4.1	4.1	4.1
	P7 (0,25;0,25)	2.4	3.0	3.0	3.0
Bearing type	: Drive end : 6308 ZZ Non drive end : 6207 ZZ	Foundation loads			
Sealing	: V'Ring V'Ring	Max. traction	: 68 kgf		
Lubrication interval	: - -	Max. compression	: 139 kgf		
Lubricant amount	: - -				
Lubricant type	: 00088				
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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Notes
USABLE @208V 9.76A SF 1.15 SFA 11.2A

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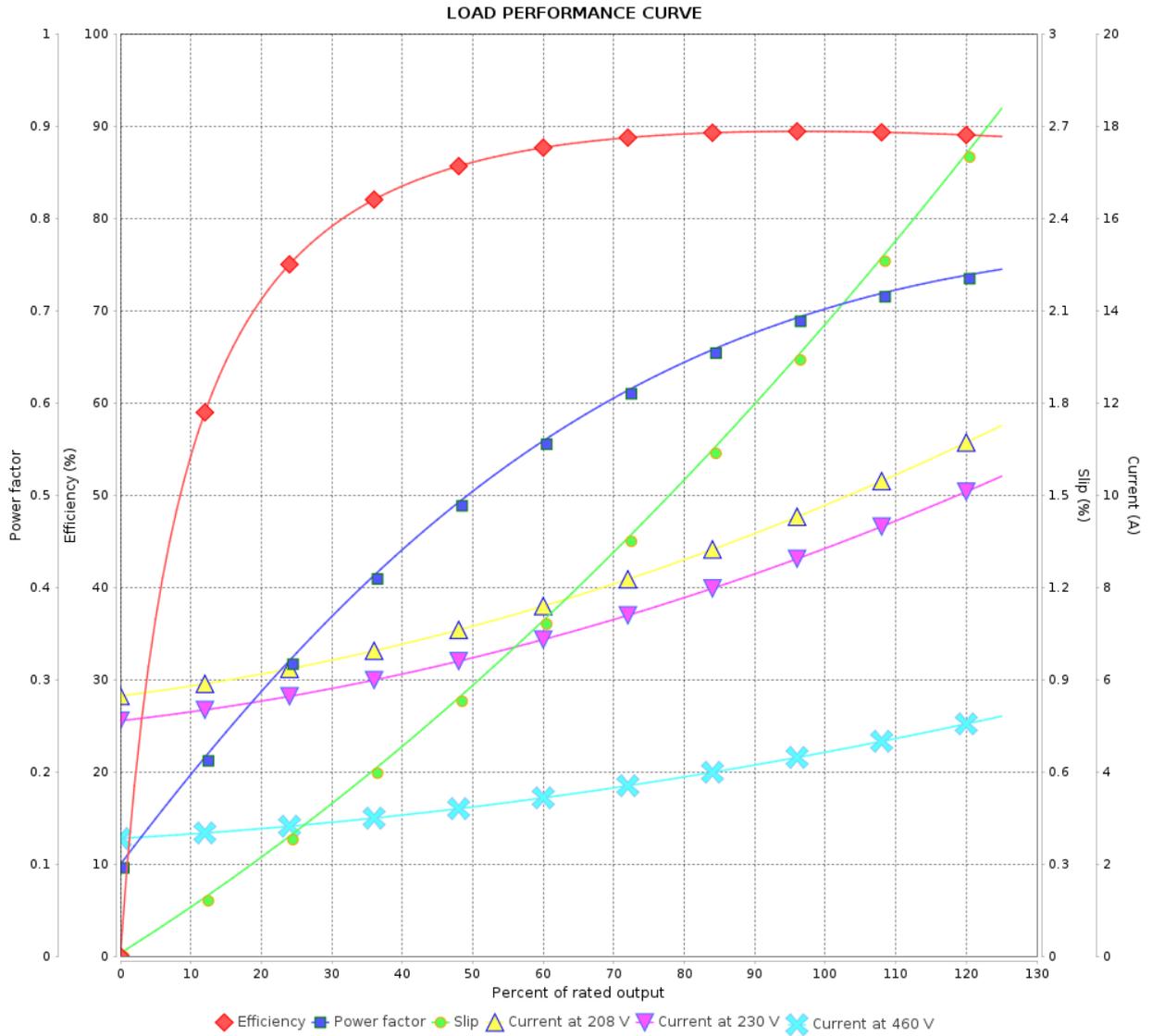
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Three-Phase

Product code : 12717206



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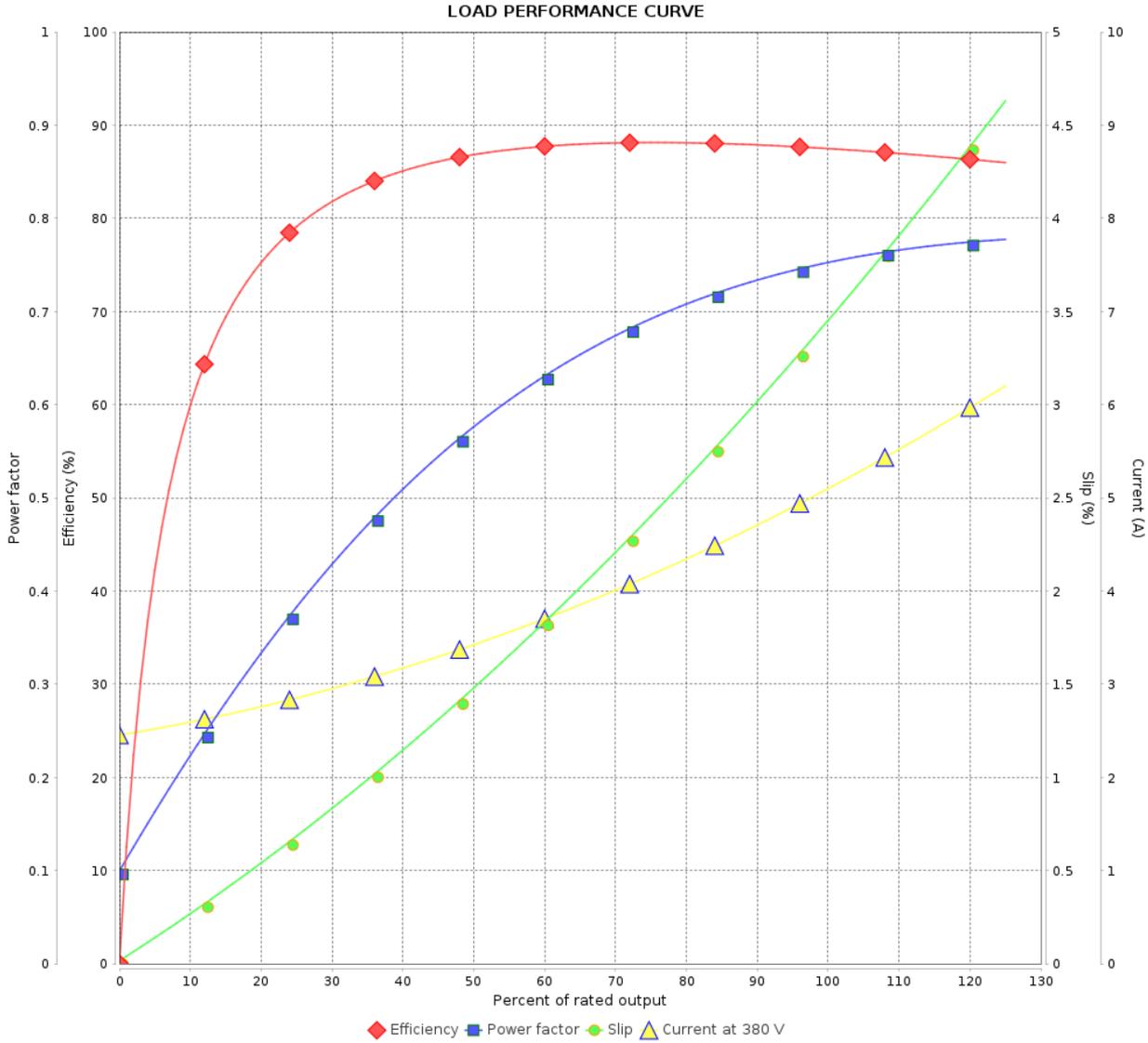
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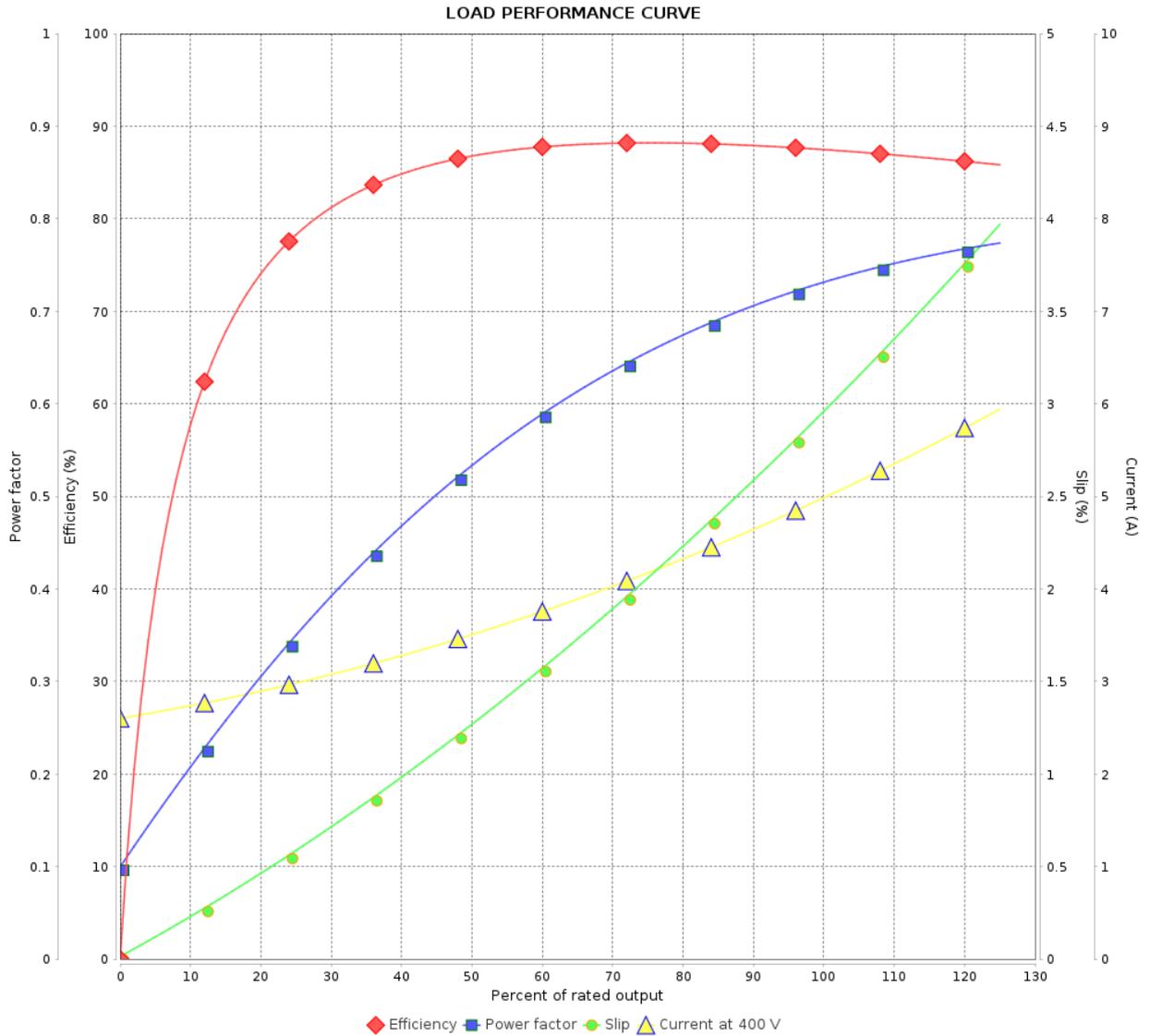
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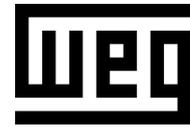
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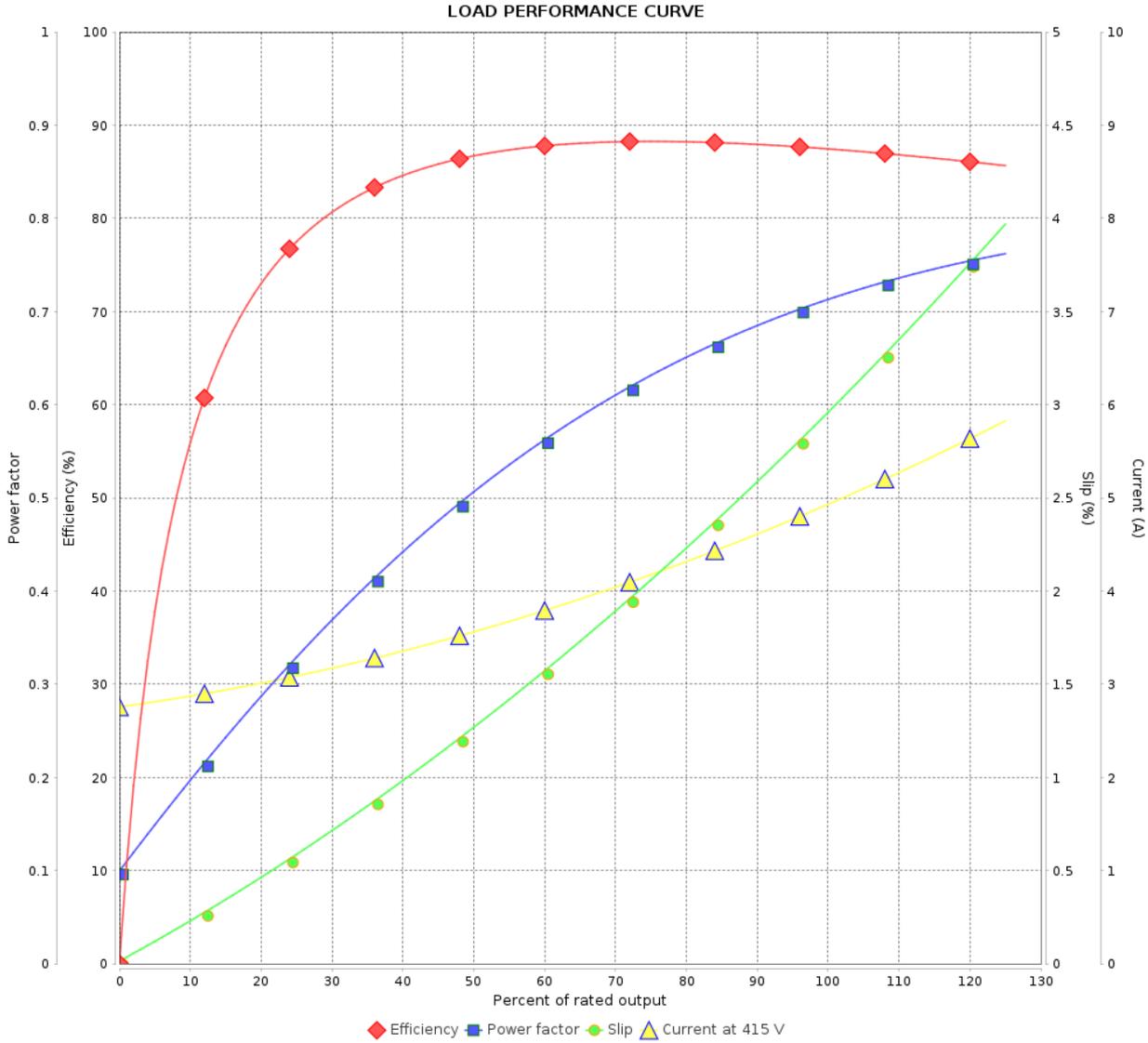
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