

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :					
Product line	: W22 NEMA Premium Efficiency Three-Phase	Product code :	12717200		
Frame	: 182/4TC	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	: 40.6 kg		
Protection degree	: IP55	Moment of inertia (J)	: 0.0143 kgm ²		
Design	: B				
Output [HP]	3	3	3	3	
Poles	4	4	4	4	
Frequency [Hz]	60	50	50	50	
Rated voltage [V]	230/460	380	400	415	
Rated current [A]	8.02/4.01	4.78	4.54	4.43	
L. R. Amperes [A]	65.8/32.9	30.1	32.2	33.7	
LRC [A]	8.2x(Code K)	6.3x(Code H)	7.1x(Code J)	7.6x(Code K)	
No load current [A]	4.00/2.00	2.10	2.20	2.35	
Rated speed [RPM]	1765	1455	1460	1465	
Slip [%]	1.94	3.00	2.67	2.33	
Rated torque [kgfm]	1.23	1.50	1.49	1.49	
Locked rotor torque [%]	220	220	220	220	
Breakdown torque [%]	320	250	270	290	
Service factor	1.25	1.25	1.25	1.25	
Temperature rise	80 K	80 K	80 K	80 K	
Locked rotor time	41s (cold) 23s (hot)	32s (cold) 18s (hot)	32s (cold) 18s (hot)	32s (cold) 18s (hot)	
Noise level ²	56.0 dB(A)	56.0 dB(A)	56.0 dB(A)	56.0 dB(A)	
Efficiency (%)	25%				
	50%	87.5	87.5	87.5	
	75%	88.5	87.5	87.5	
	100%	89.5	87.5	87.5	
Power Factor	25%				
	50%	0.58	0.65	0.62	
	75%	0.69	0.77	0.73	
	100%	0.77	0.80	0.80	
Losses at normative operating points (speed;torque), in percentage of rated output power					
Losses (%)	P1 (0,9;1,0)	12.7	12.9	13.7	13.8
	P2 (0,5;1,0)	11.2	11.3	12.0	12.1
	P3 (0,25;1,0)	10.8	11.0	11.7	11.7
	P4 (0,9;0,5)	6.7	6.8	7.2	7.3
	P5 (0,5;0,5)	5.0	5.1	5.4	5.4
	P6 (0,5;0,25)	3.7	3.7	4.0	4.0
	P7 (0,25;0,25)	2.8	2.9	3.1	3.1
Bearing type	: Drive end : 6207 ZZ Non drive end : 6206 ZZ	Foundation loads			
Sealing	: V'Ring V'Ring	Max. traction	: 70 kgf		
Lubrication interval	: - -	Max. compression	: 110 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 8.65A SF 1.15 SFA 9.95A

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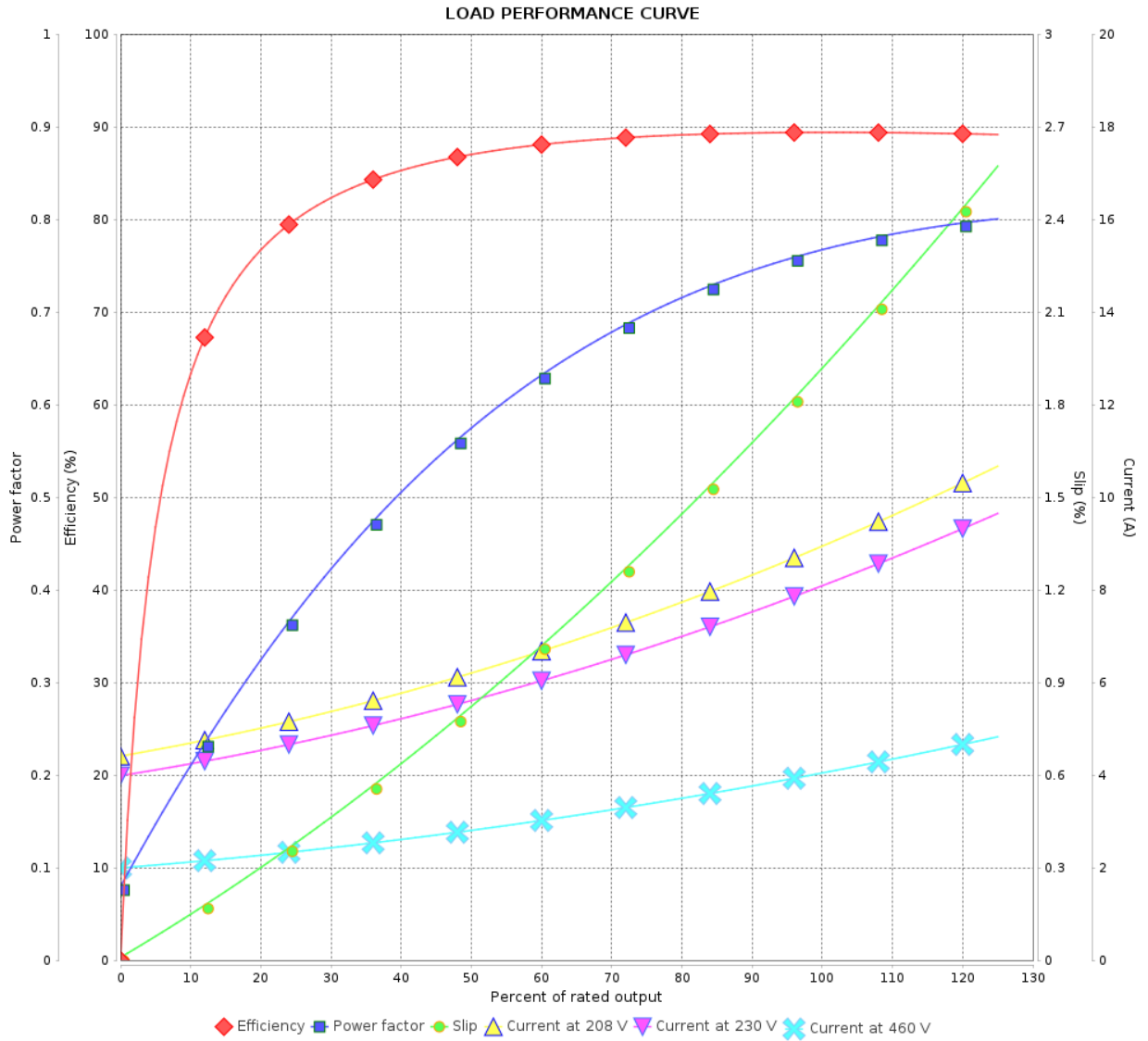
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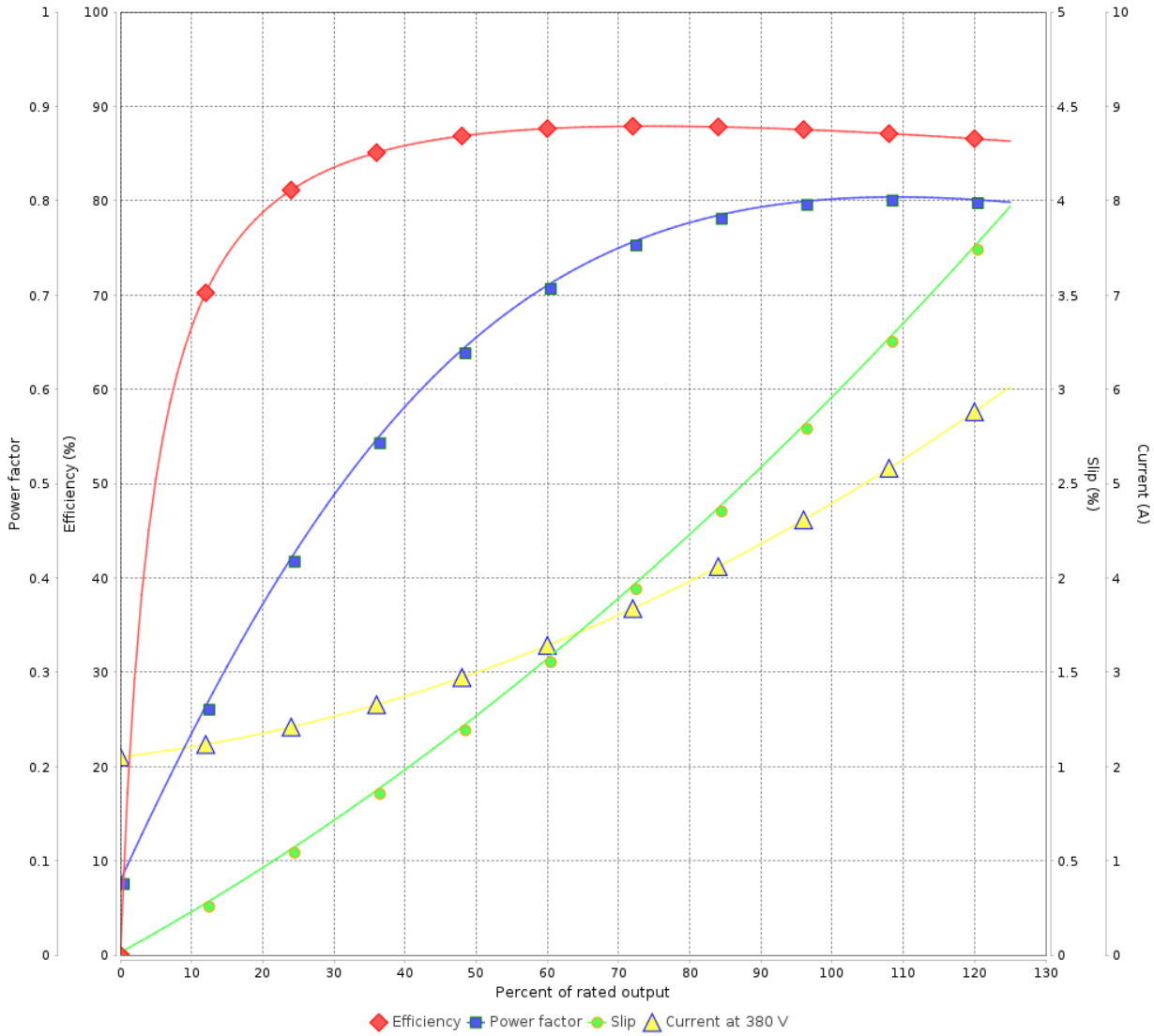
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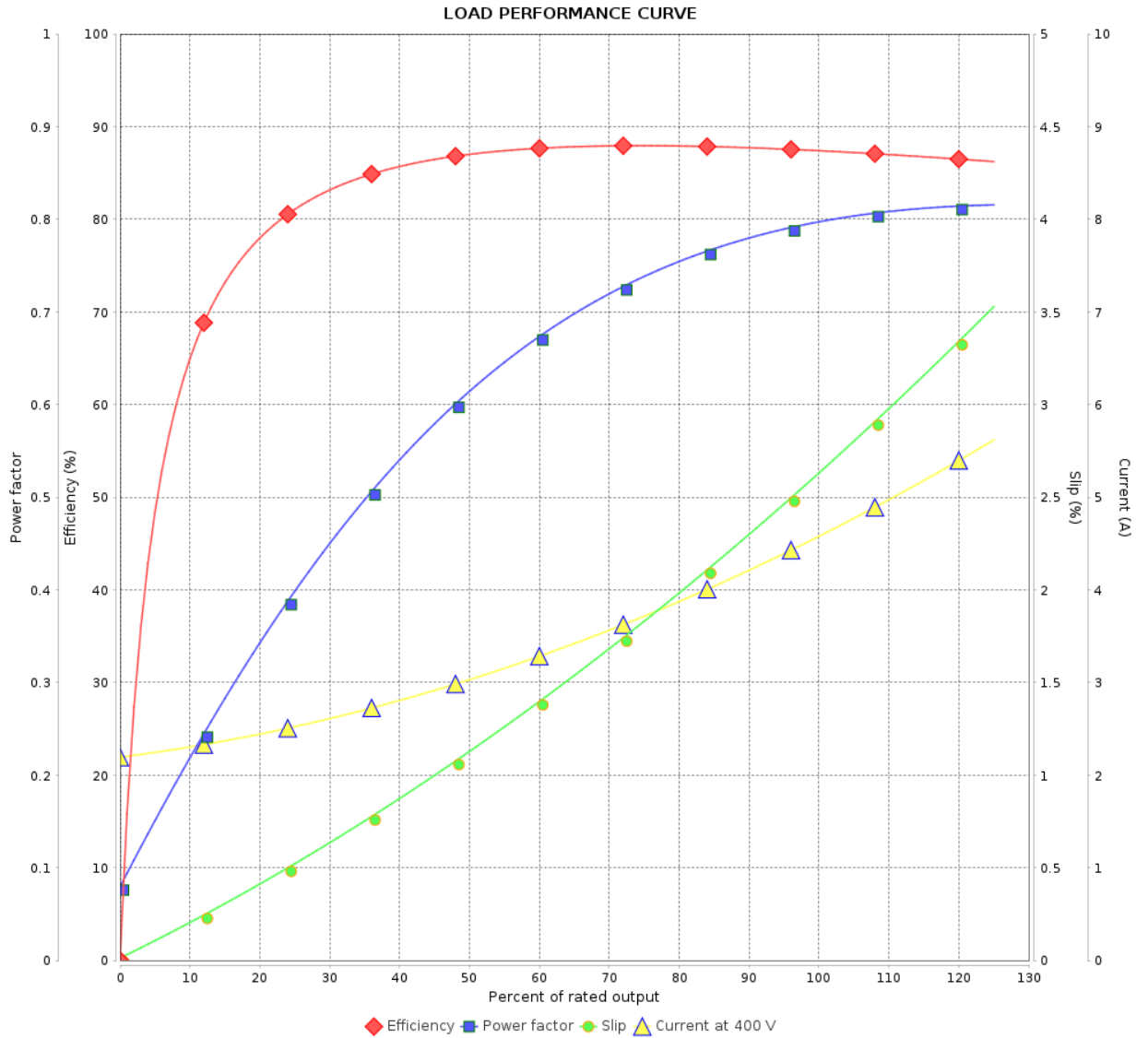
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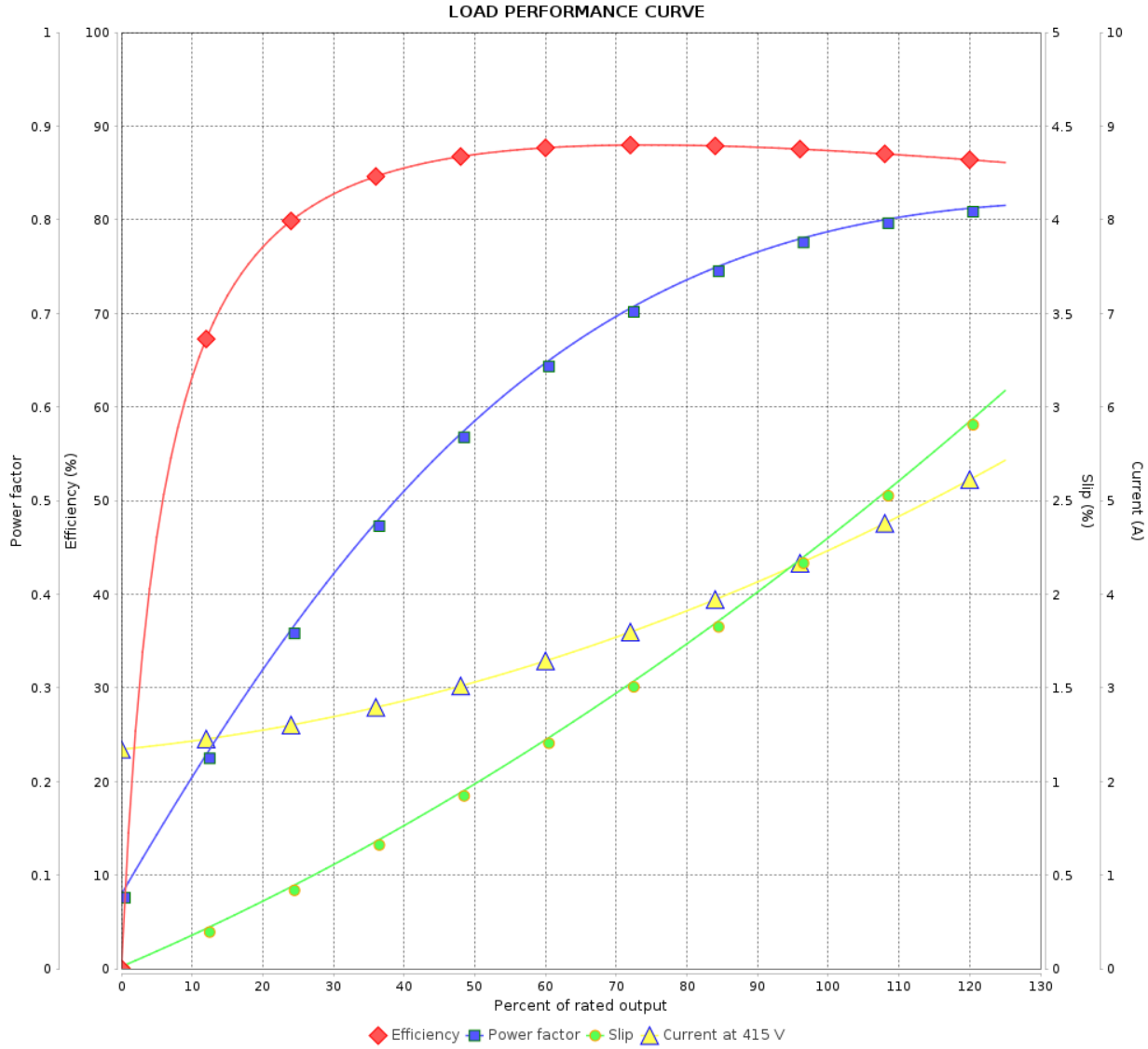
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