

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer	:		
Product line	: Three-Phase	Product code :	14709245
Frame	: W56C	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 ²	: 8.4 kg
Protection degree	: IP55	Moment of inertia (J)	: 0.0008 kgm ²
Output [HP]	0.5	0.5	0.5
Poles	2	2	2
Frequency [Hz]	60	50	50
Rated voltage [V]	208-230/460	190/380	220/415
Rated current [A]	1.73-1.57/0.784	1.77/0.885	1.61/0.852
L. R. Amperes [A]	13.3-12.1/6.04	10.3/5.13	10.3/5.45
LRC [A]	7.7x(Code L)	5.8x(Code H)	6.4x(Code J)
No load current [A]	0.719-0.834/0.417	0.816/0.408	0.830/0.440
Rated speed [RPM]	3435	2780	2810
Slip [%]	4.58	7.33	6.33
Rated torque [kgfm]	0.106	0.131	0.129
Locked rotor torque [%]	330	240	280
Breakdown torque [%]	360	250	280
Service factor		1.15	1.15
Temperature rise	80 K	80 K	80 K
Locked rotor time	32s (cold) 18s (hot)	32s (cold) 18s (hot)	28s (cold) 16s (hot)
Noise level ²	65.0 dB(A)	64.0 dB(A)	64.0 dB(A)
Efficiency (%)	25%		
	50%	68.0	71.4
	75%	72.0	75.1
	100%	74.0	75.5
Power Factor	25%		
	50%	0.64	0.66
	75%	0.75	0.78
	100%	0.80	0.83
Bearing type	: <u>Drive end</u> 6203 ZZ <u>Non drive end</u> 6202 ZZ	Foundation loads	
Sealing	: V'Ring V'Ring	Max. traction	: 7 kgf
Lubrication interval	: - -	Max. compression	: 15 kgf
Lubricant amount	: - -		
Lubricant type	: Mobil Polyrex EM		
Notes USABLE @208V SF 1.00			
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

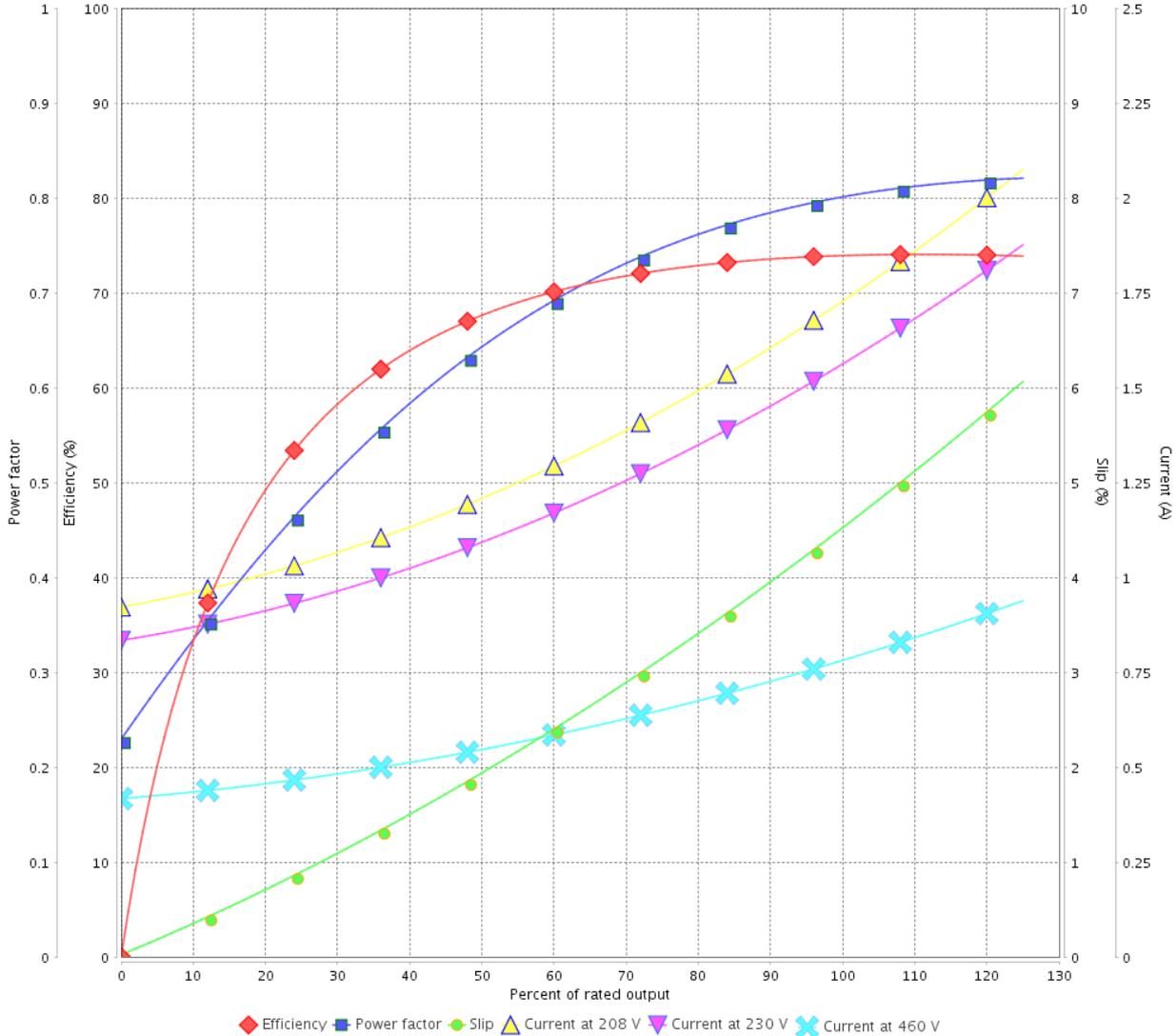


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Performance : 208-230/460 V 60 Hz 2P

Rated current : 1.73-1.57/0.784 A
 LRC : 7.7
 Rated torque : 0.106 kgfm
 Locked rotor torque : 330 %
 Breakdown torque : 360 %
 Rated speed : 3435 rpm

Moment of inertia (J) : 0.0008 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor :
 Temperature rise : 80 K

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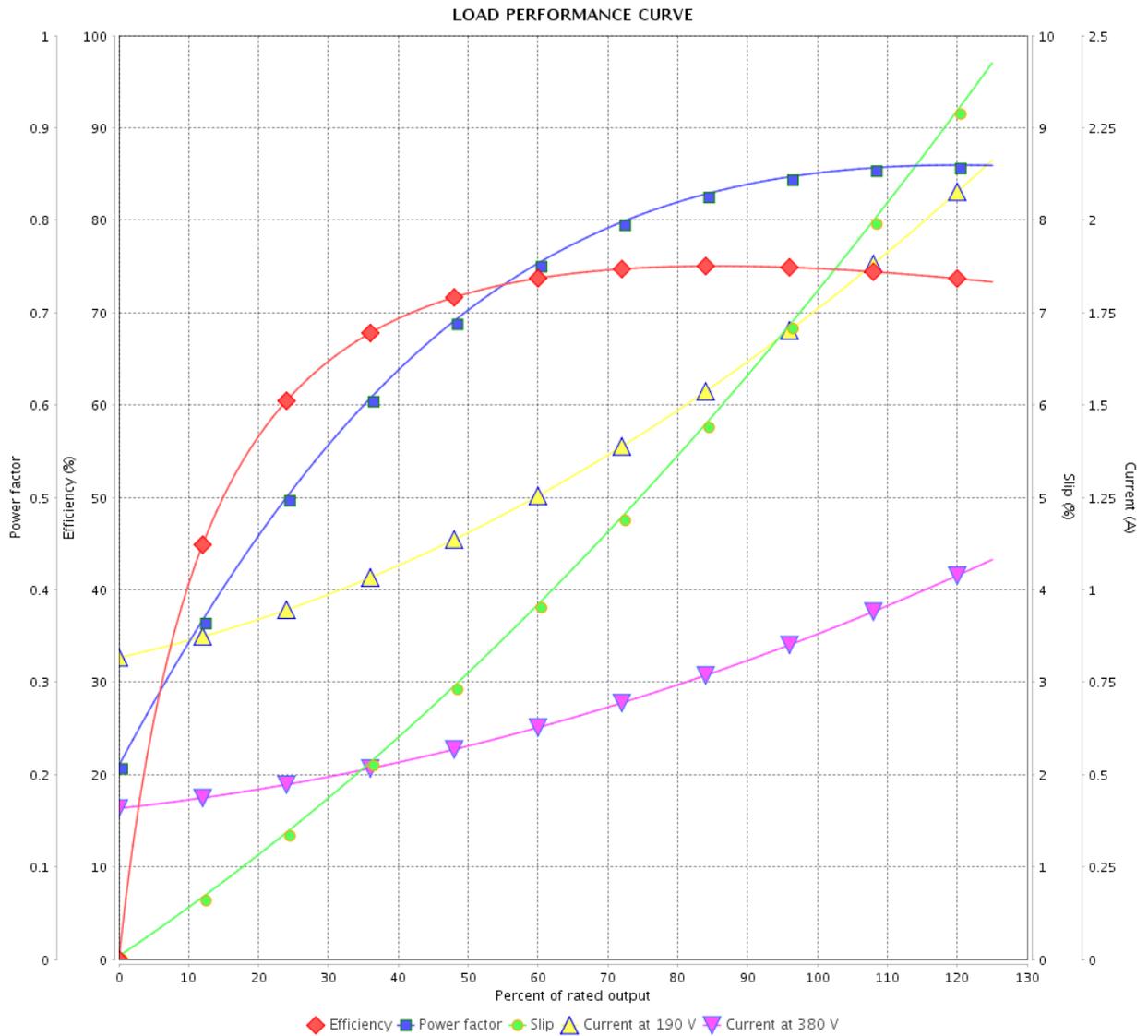
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Performance : 190/380 V 50 Hz 2P

Rated current : 1.77/0.885 A
 LRC : 5.8
 Rated torque : 0.131 kgfm
 Locked rotor torque : 240 %
 Breakdown torque : 250 %
 Rated speed : 2780 rpm

Moment of inertia (J) : 0.0008 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K

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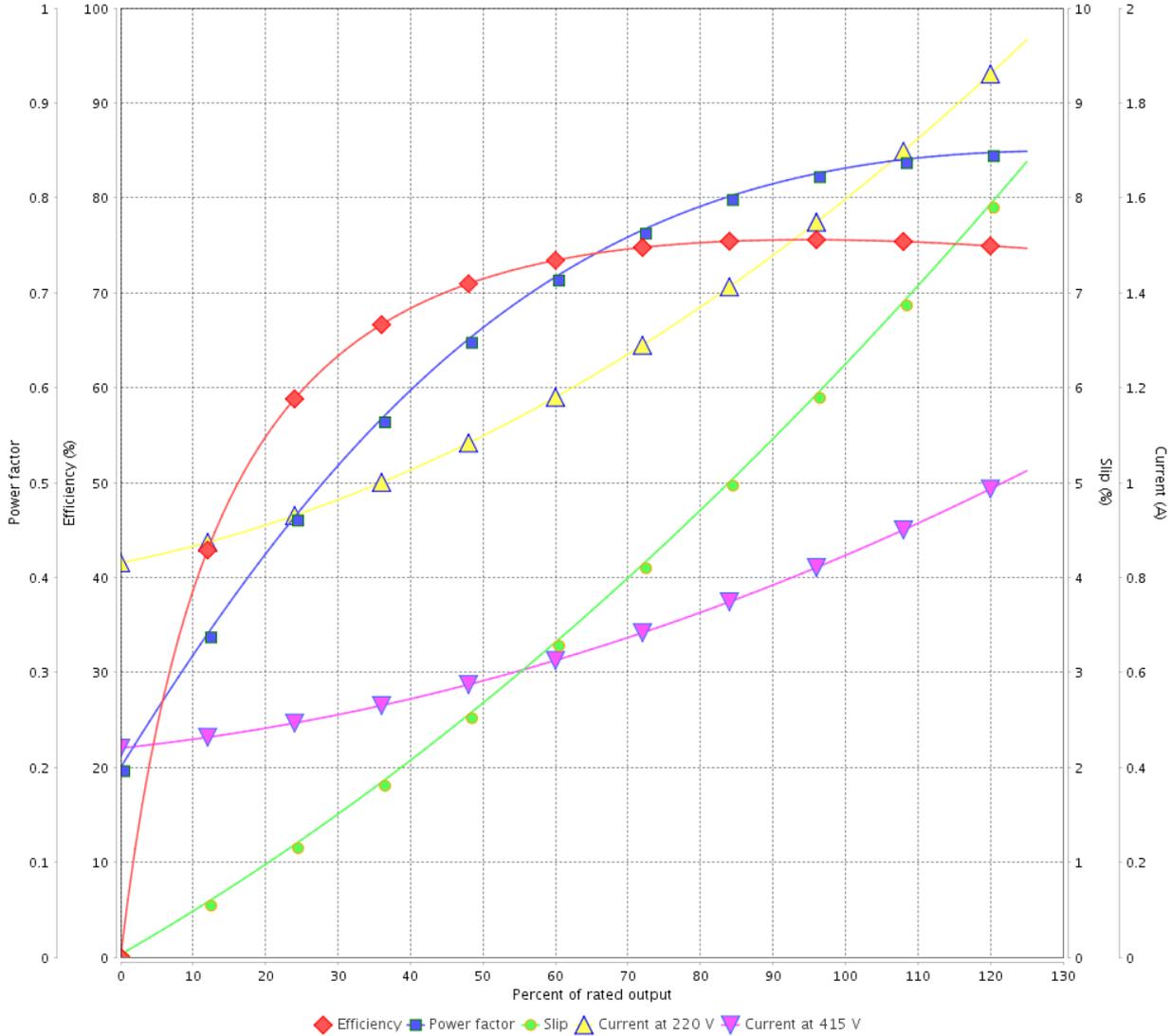


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Performance : 220/415 V 50 Hz 2P

Rated current : 1.61/0.852 A
 LRC : 6.4
 Rated torque : 0.129 kgfm
 Locked rotor torque : 280 %
 Breakdown torque : 280 %
 Rated speed : 2810 rpm

Moment of inertia (J) : 0.0008 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K

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