

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :				
Product line : Three-Phase	Product code : 14833813			
Frame : W56 Insulation class : F Duty cycle : Cont.(S1) Ambient temperature : -20°C to +40°C Altitude : 1000 m.a.s.l. Protection degree : IP55	Cooling method : IC411 - TEFC Mounting : F-1 Rotation ¹ : Both (CW and CCW) Starting method : Direct On Line Approx. weight ² : 8.3 kg 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	: Drive end 6203 ZZ Non drive end 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.		
Rev.	Changes Summary	Performed	Checked	Date
Performed by				
Checked by			Page	Revision
Date	17/05/2022		1 / 4	

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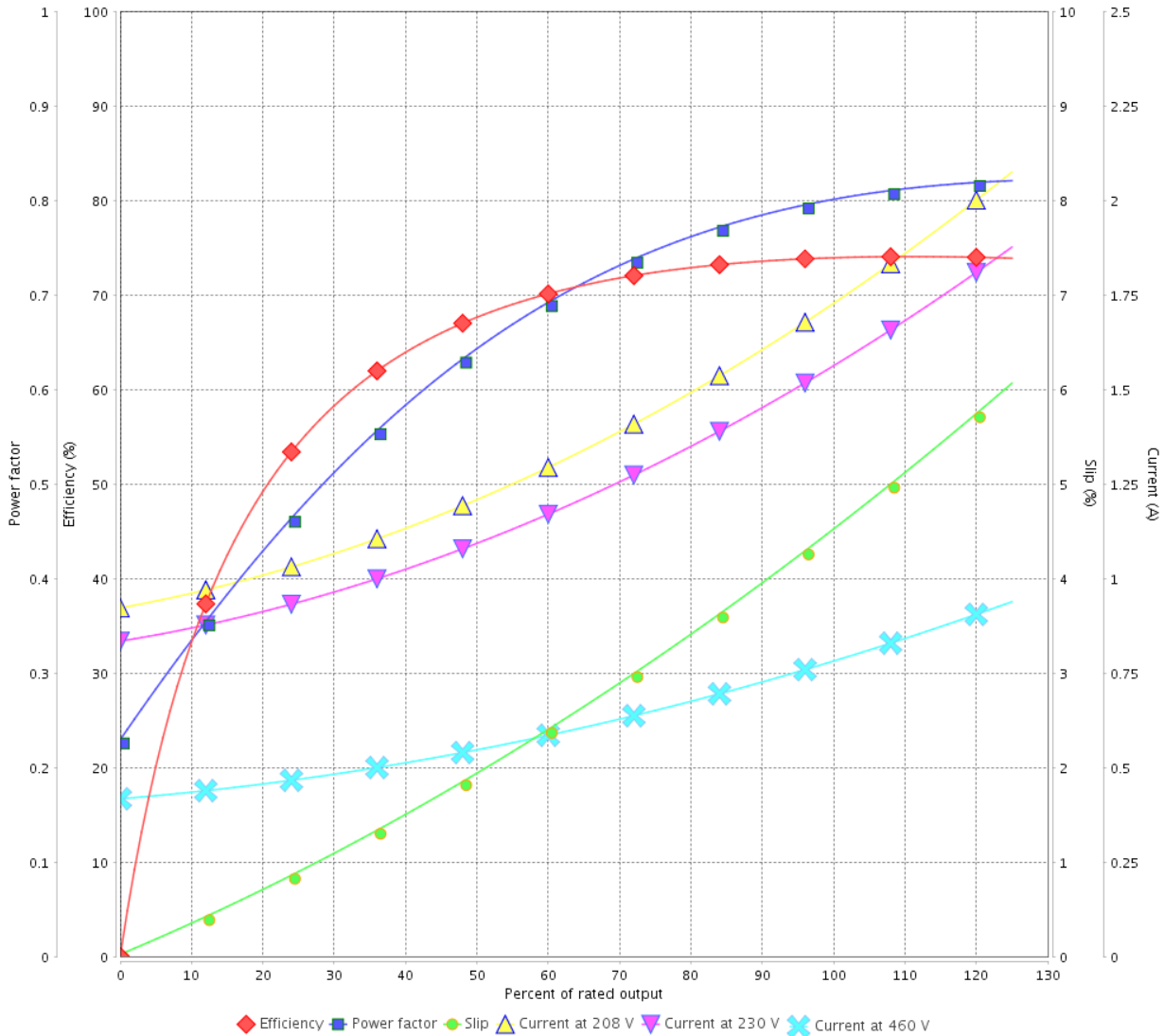


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Performance : 208-230/460 V 60 Hz 2P

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

Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page 2 / 4	Revision
Checked by				
Date	17/05/2022			

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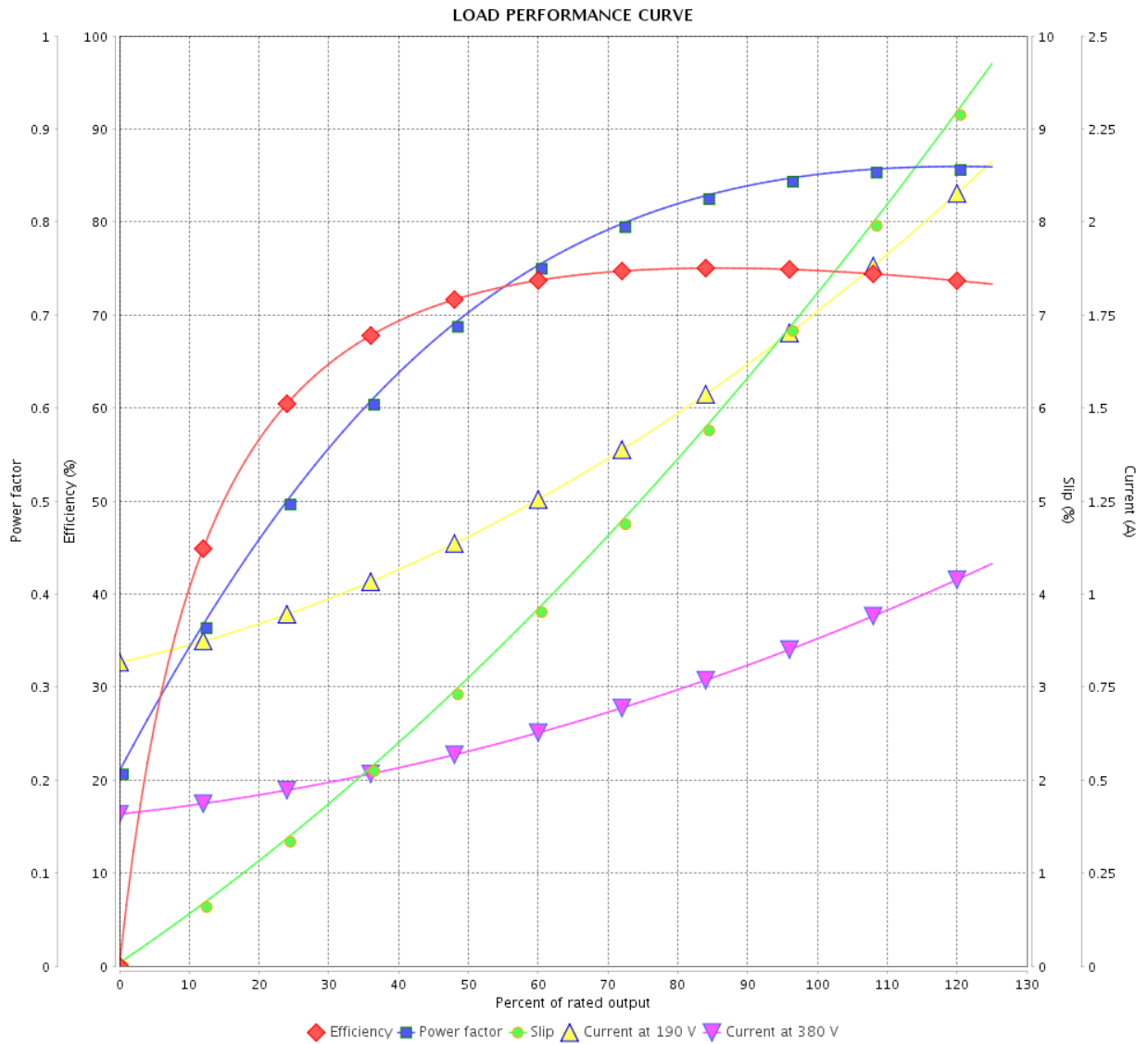
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Performance : 190/380 V 50 Hz 2P

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

Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page	Revision
Checked by				
Date				

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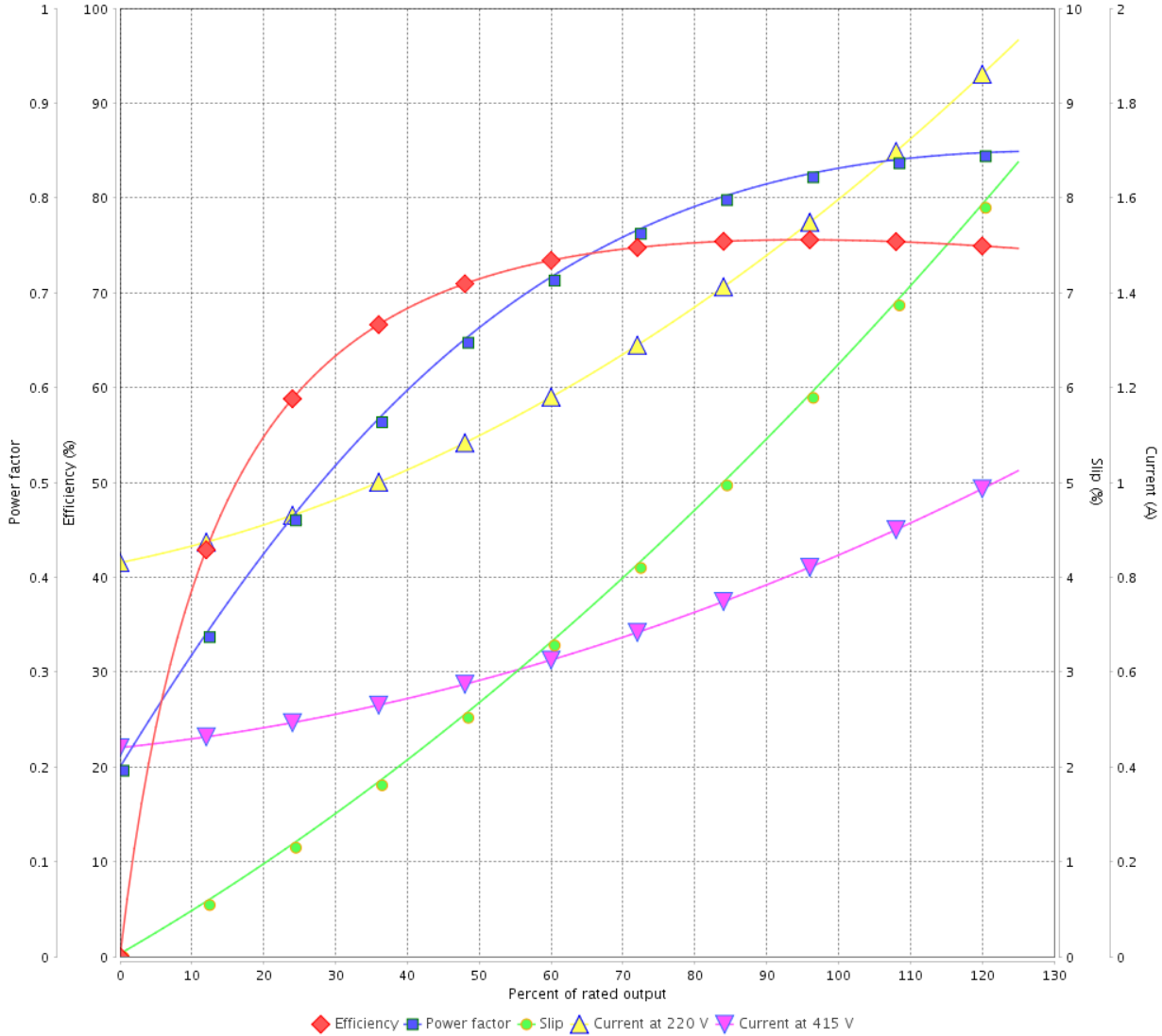


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Performance : 220/415 V 50 Hz 2P

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

Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page 4 / 4	Revision
Checked by				
Date	17/05/2022			