

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer	:			
Product line	: Standard Efficiency Three-Phase	Product code :	12805243	
Frame	: 56C	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	: 11.0 kg	
Protection degree	: IP55	Moment of inertia (J)	: 0.0027 kgm ²	
Output [HP]	1	1	1	
Poles	2	2	2	
Frequency [Hz]	60	50	50	
Rated voltage [V]	230/460	190/380	220/415	
Rated current [A]	3.02/1.51	3.32/1.66	3.04/1.61	
L. R. Amperes [A]	21.7/10.9	19.3/9.63	19.1/10.1	
LRC [A]	7.2x(Code K)	5.8x(Code H)	6.3x(Code H)	
No load current [A]	1.42/0.710	1.39/0.697	1.50/0.793	
Rated speed [RPM]	3480	2835	2855	
Slip [%]	3.33	5.50	4.83	
Rated torque [kgfm]	0.209	0.256	0.254	
Locked rotor torque [%]	240	180	210	
Breakdown torque [%]	290	229	250	
Service factor		1.00	1.00	
Temperature rise	80 K	105 K	80 K	
Locked rotor time	43s (cold) 24s (hot)	54s (cold) 30s (hot)	48s (cold) 27s (hot)	
Noise level ²	68.0 dB(A)	65.0 dB(A)	65.0 dB(A)	
Efficiency (%)	25%	64.0	73.8	72.1
	50%	66.0	73.7	72.7
	75%	72.0	76.2	76.1
	100%	74.0	75.5	76.2
Power Factor	25%	0.43	0.48	0.43
	50%	0.68	0.76	0.71
	75%	0.79	0.86	0.83
	100%	0.84	0.91	0.88
Bearing type	: Drive end 6204 ZZ	Non drive end 6202 ZZ	Foundation loads	
Sealing	: V'Ring	Without Bearing Seal	Max. traction : 15 kgf	
Lubrication interval	: -	-	Max. compression : 26 kgf	
Lubricant amount	: -	-		
Lubricant type	: Mobil Polyrex EM			
Notes				
USABLE @208V 3.34A SF 1.00 SFA 3.34A				
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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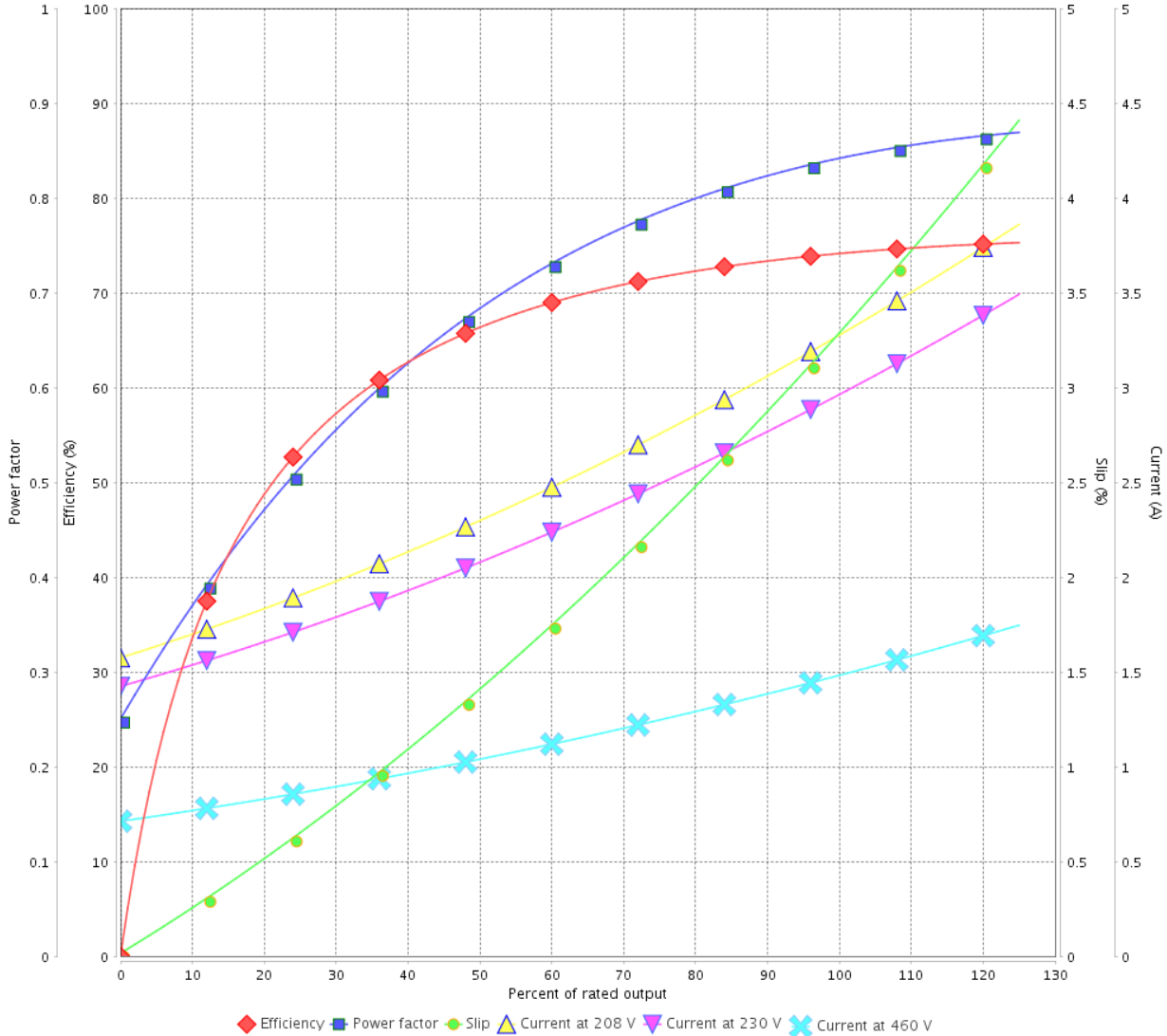
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Standard Efficiency Three-Phase Product code : 12805243

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Performance : 230/460 V 60 Hz 2P

Rated current : 3.02/1.51 A
 LRC : 7.2
 Rated torque : 0.209 kgfm
 Locked rotor torque : 240 %
 Breakdown torque : 290 %
 Rated speed : 3480 rpm

Moment of inertia (J) : 0.0027 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor :
 Temperature rise : 80 K

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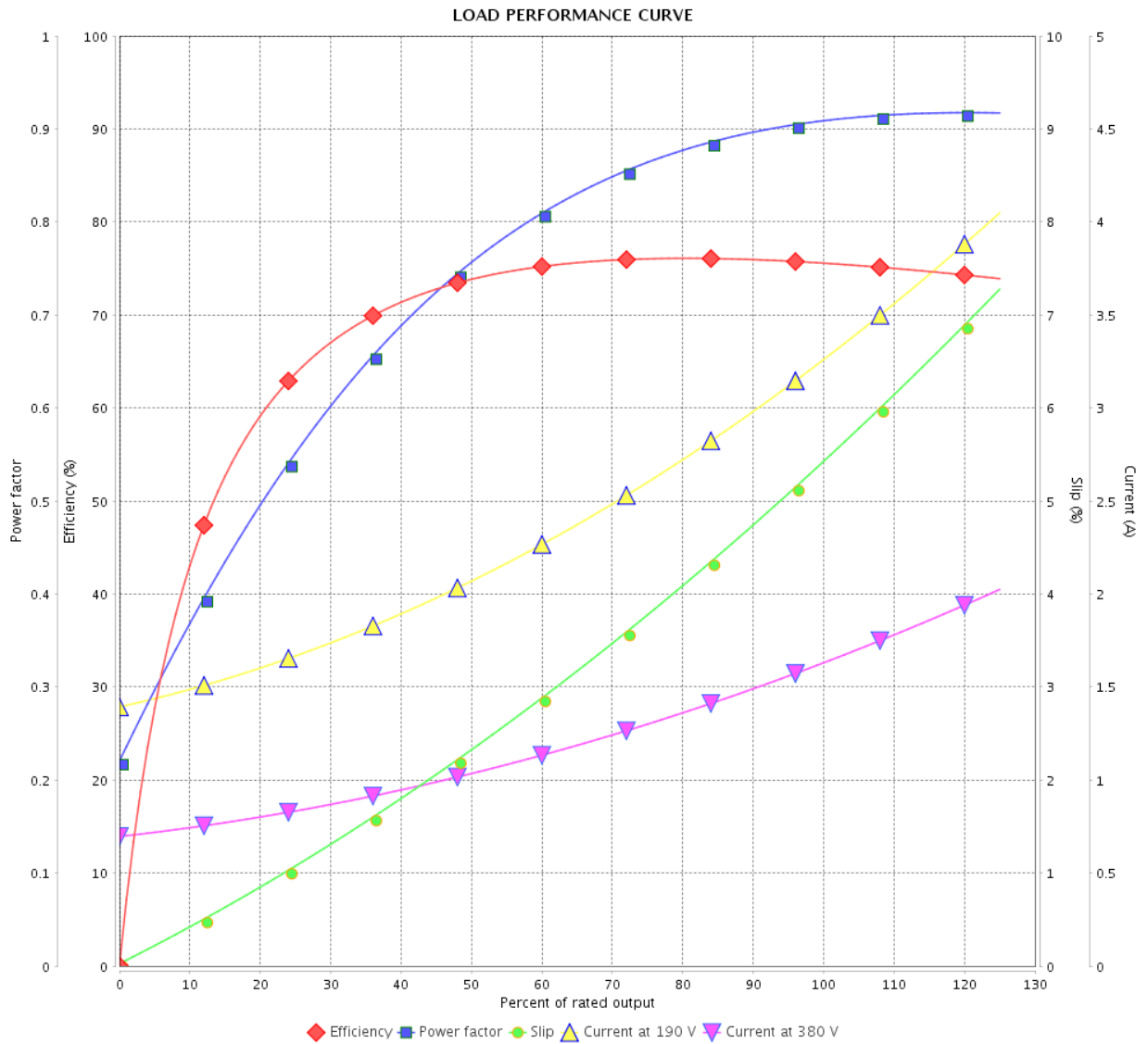
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Three Phase Induction Motor - Squirrel Cage



Customer : _____

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Performance : 190/380 V 50 Hz 2P

Rated current : 3.32/1.66 A
 LRC : 5.8
 Rated torque : 0.256 kgfm
 Locked rotor torque : 180 %
 Breakdown torque : 229 %
 Rated speed : 2835 rpm

Moment of inertia (J) : 0.0027 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 105 K

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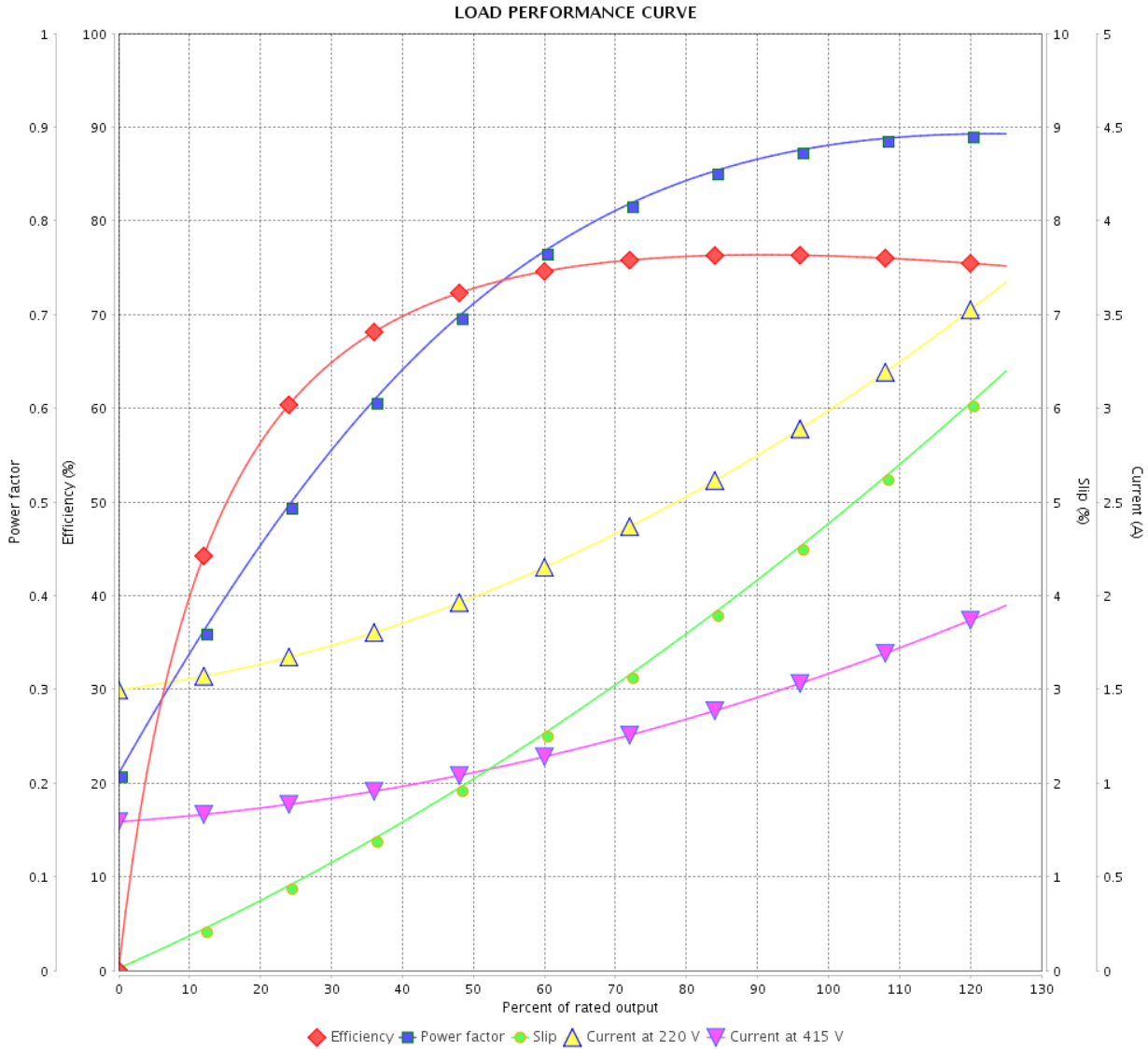
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Three Phase Induction Motor - Squirrel Cage



Customer :

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Performance : 220/415 V 50 Hz 2P

Rated current : 3.04/1.61 A
 LRC : 6.3
 Rated torque : 0.254 kgfm
 Locked rotor torque : 210 %
 Breakdown torque : 250 %
 Rated speed : 2855 rpm

Moment of inertia (J) : 0.0027 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 80 K

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