

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer	:		
Product line	: Standard Efficiency Three-Phase	Product code :	13572090
Frame	: 56	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	: 12.2 kg
Protection degree	: IP55	Moment of inertia (J)	: 0.0033 kgm ²
Design	: A		
Output [HP]	1.5	1	1
Poles	2	2	2
Frequency [Hz]	60	50	50
Rated voltage [V]	230/460	190/380	220/415
Rated current [A]	3.98/1.99	3.28/1.64	3.02/1.60
L. R. Amperes [A]	28.7/14.3	26.2/13.1	27.2/14.4
LRC [A]	7.2x(Code J)	8.0x(Code K)	9.0x(Code M)
No load current [A]	1.63/0.815	1.57/0.786	1.84/0.977
Rated speed [RPM]	3460	2885	2905
Slip [%]	3.89	3.83	3.17
Rated torque [kgfm]	0.315	0.252	0.250
Locked rotor torque [%]	240	270	330
Breakdown torque [%]	270	320	380
Service factor		1.15	1.15
Temperature rise	80 K	80 K	80 K
Locked rotor time	21s (cold) 12s (hot)	0s (cold) 0s (hot)	0s (cold) 0s (hot)
Noise level ²	68.0 dB(A)	65.0 dB(A)	65.0 dB(A)
Efficiency (%)	25%		
	50%	72.0	71.6
	75%	75.5	76.8
	100%	77.0	78.7
Power Factor	25%		
	50%	0.76	0.62
	75%	0.85	0.74
	100%	0.90	0.83
Bearing type	: Drive end 6204 ZZ Non drive end 6202 ZZ	Foundation loads	
Sealing	: V'Ring V'Ring	Max. traction	: 24 kgf
Lubrication interval	: - -	Max. compression	: 36 kgf
Lubricant amount	: - -		
Lubricant type	: Mobil Polyrex EM		
Notes			
USABLE @208V 4.40A SF 1.00 SFA 4.40A			
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
Performed by			
Checked by			
Date	11/05/2022		
		Page	Revision
		1 / 4	

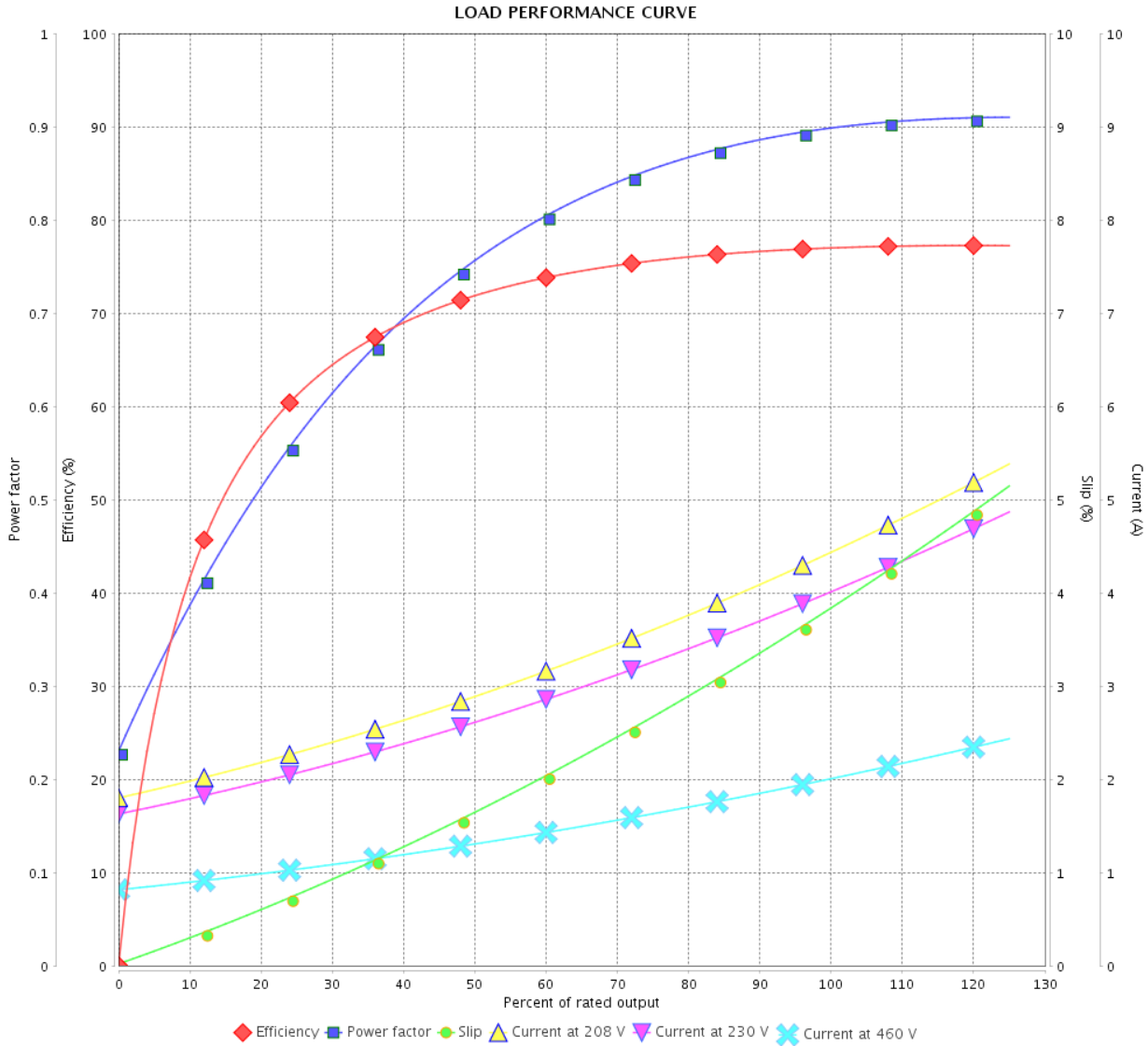
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Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : Standard Efficiency Three-Phase Product code : 13572090



Performance : 230/460 V 60 Hz 2P

Rated current : 3.98/1.99 A
 LRC : 7.2
 Rated torque : 0.315 kgfm
 Locked rotor torque : 240 %
 Breakdown torque : 270 %
 Rated speed : 3460 rpm

Moment of inertia (J) : 0.0033 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor :
 Temperature rise : 80 K
 Design : A

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

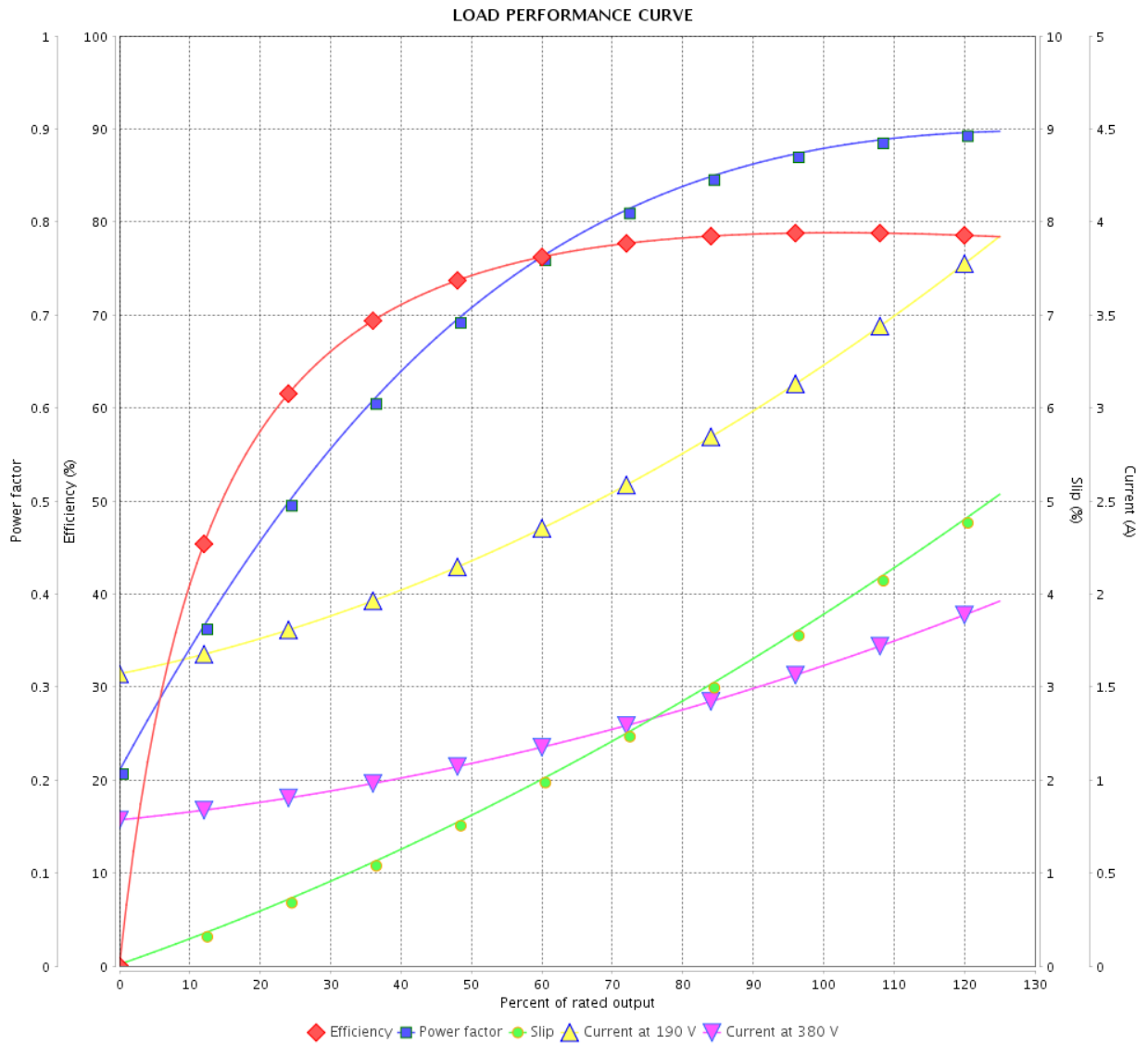
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Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : Standard Efficiency Three-Phase Product code : 13572090



Performance : 190/380 V 50 Hz 2P

Rated current : 3.28/1.64 A
 LRC : 8.0
 Rated torque : 0.252 kgfm
 Locked rotor torque : 270 %
 Breakdown torque : 320 %
 Rated speed : 2885 rpm

Moment of inertia (J) : 0.0033 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : A

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

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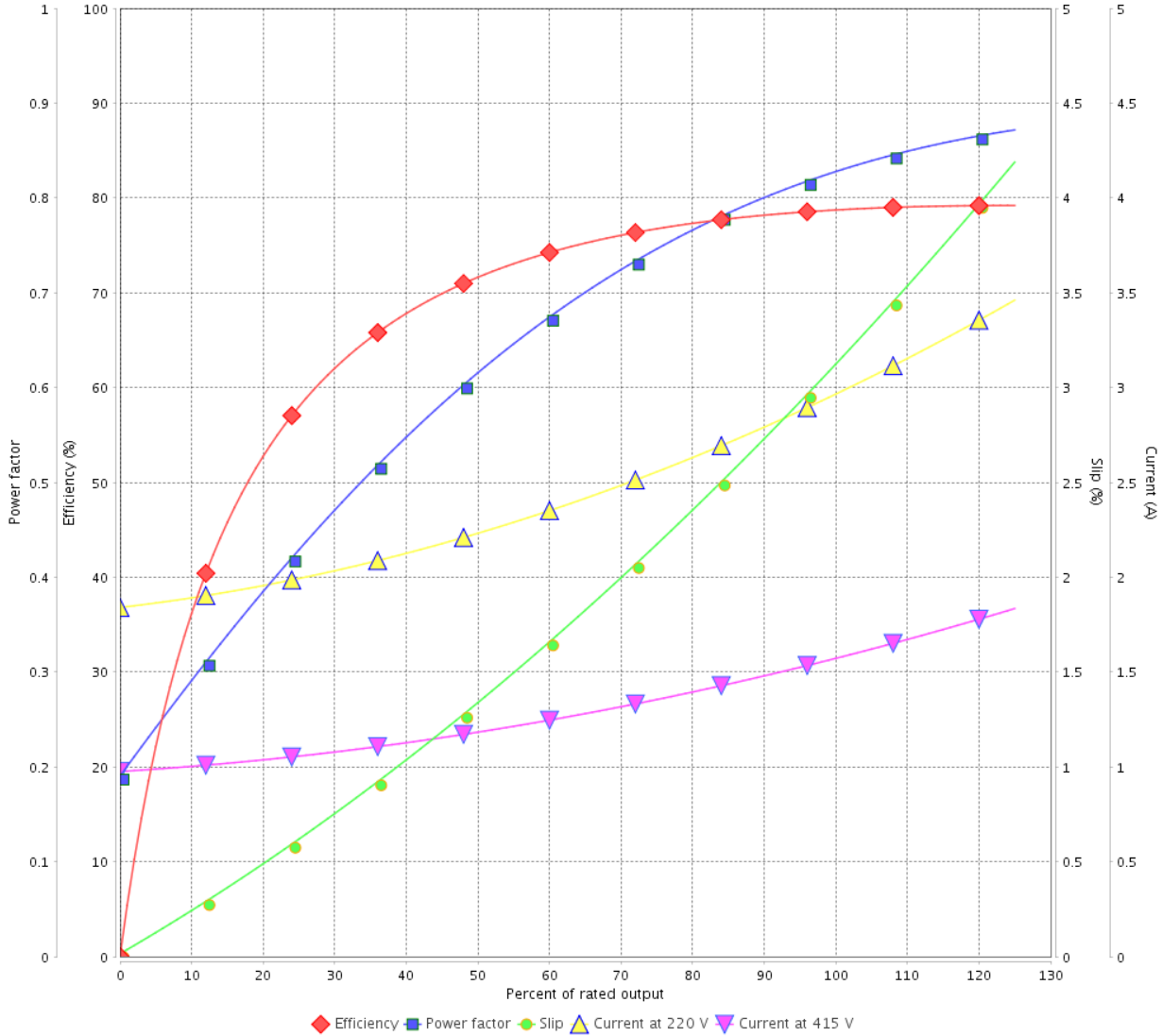
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Standard Efficiency Three-Phase Product code : 13572090

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Performance : 220/415 V 50 Hz 2P

Rated current : 3.02/1.60 A
 LRC : 9.0
 Rated torque : 0.250 kgfm
 Locked rotor torque : 330 %
 Breakdown torque : 380 %
 Rated speed : 2905 rpm

Moment of inertia (J) : 0.0033 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : A

Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page 4 / 4	Revision
Checked by				
Date	11/05/2022			