

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :		
Product line	: NEMA Premium Efficiency Three-Phase	
Product code	: 12675416	
Frame	: 213/5T	
Insulation class	: F	
Duty cycle	: Cont.(S1)	
Ambient temperature	: -20°C to +40°C	
Altitude	: 1000 m.a.s.l.	
Protection degree	: IP55	
Design	: B	
Cooling method	: IC411 - TEFC	
Mounting	: F-1	
Rotation ¹	: Both (CW and CCW)	
Starting method	: Direct On Line	
Approx. weight ²	: 65.7 kg	
Moment of inertia (J)	: 0.0531 kgm ²	
Output [HP]	5	
Poles	6	
Frequency [Hz]	60	
Rated voltage [V]	230/460	
Rated current [A]	13.5/6.74	
L. R. Amperes [A]	80.9/40.4	
LRC [A]	6.0x(Code H)	
No load current [A]	6.84/3.42	
Rated speed [RPM]	1175	
Slip [%]	2.08	
Rated torque [kgfm]	3.09	
Locked rotor torque [%]	220	
Breakdown torque [%]	250	
Service factor	1.15	
Temperature rise	80 K	
Locked rotor time	54s (cold) 30s (hot)	
Noise level ²	55.0 dB(A)	
Efficiency (%)	25%	86.4
	50%	87.5
	75%	88.5
	100%	89.5
Power Factor	25%	0.35
	50%	0.59
	75%	0.71
	100%	0.77
Bearing type	: <u>Drive end</u> 6208 ZZ <u>Non drive end</u> 6206 ZZ	
Sealing	: V'Ring Without Bearing Seal	
Lubrication interval	: -	
Lubricant amount	: -	
Lubricant type	: Mobil Polyrex EM	
Foundation loads	Max. traction : 113 kgf	
	Max. compression : 179 kgf	
Notes USABLE @208V 14.9A SF 1.00 SFA 14.9A		
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 by	Performed	
Checked by	Checked	
Date	13/05/2022	
Page	1 / 4	
Revision		

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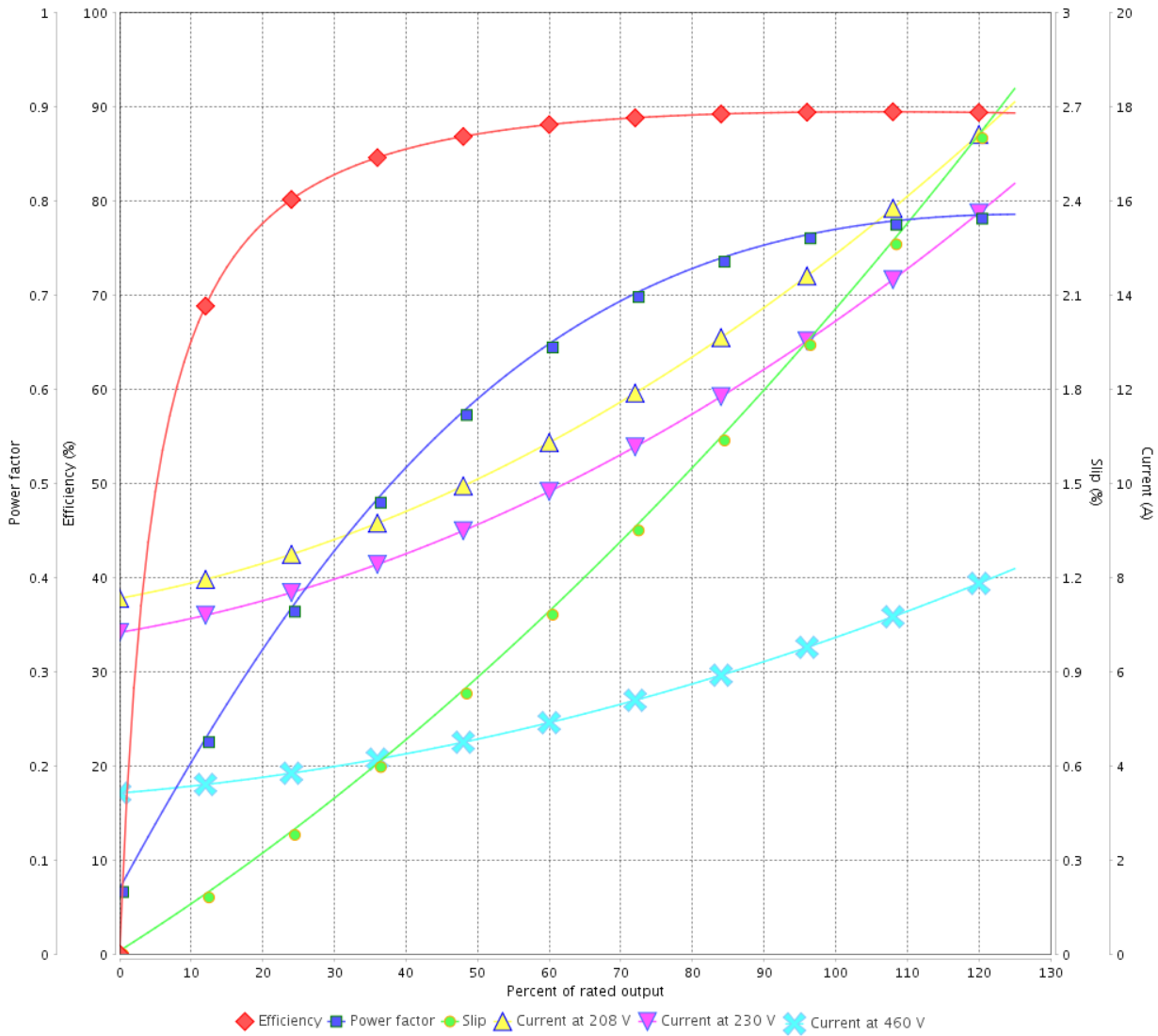
Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : NEMA Premium Efficiency Three-Phase Product code : 12675416

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Performance : 230/460 V 60 Hz 6P

Rated current : 13.5/6.74 A
 LRC : 6.0
 Rated torque : 3.09 kgfm
 Locked rotor torque : 220 %
 Breakdown torque : 250 %
 Rated speed : 1175 rpm

Moment of inertia (J) : 0.0531 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page 2 / 4	Revision
Checked by				
Date	13/05/2022			

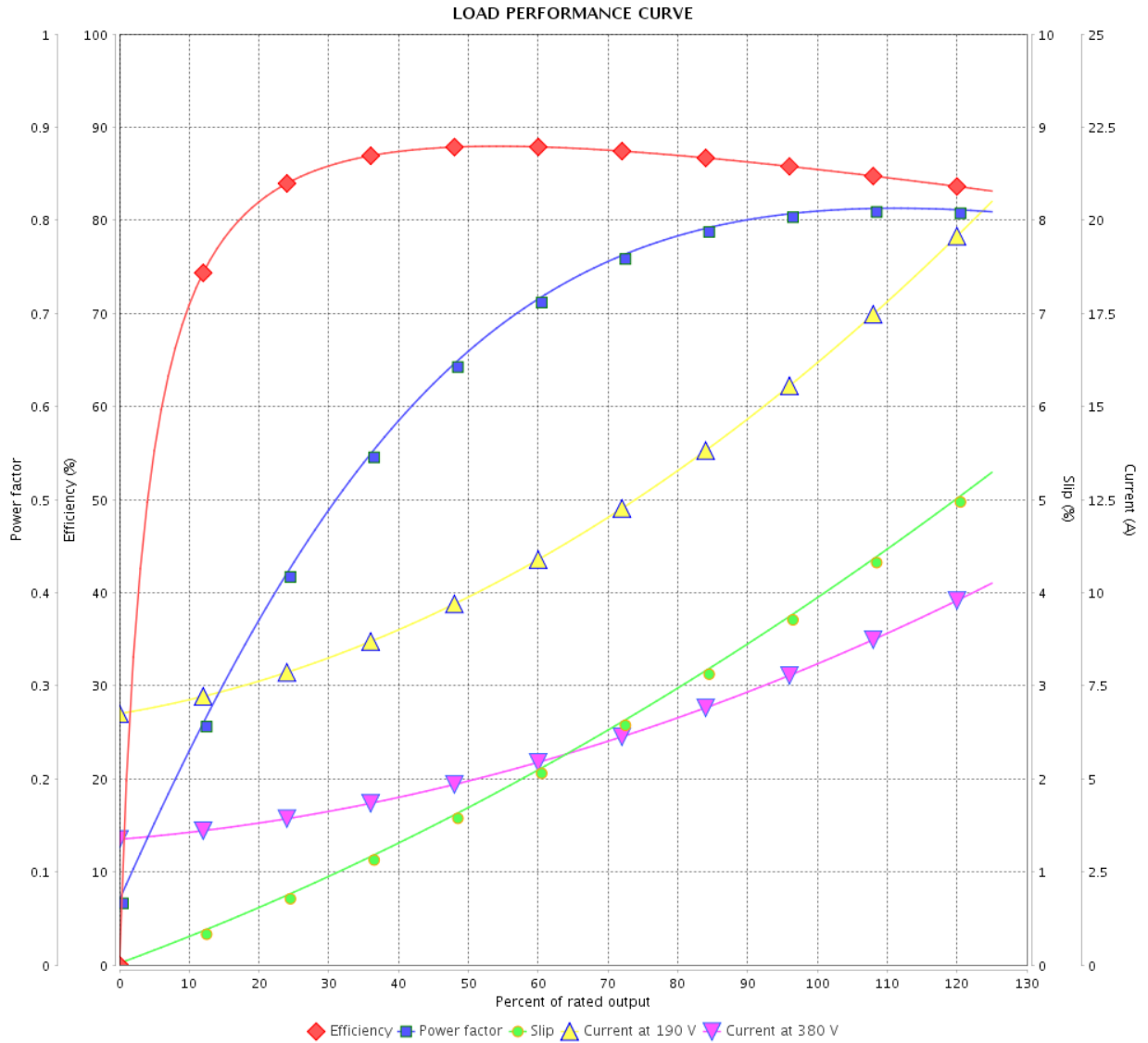
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Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : NEMA Premium Efficiency Three-Phase Product code : 12675416



Performance : 190/380 V 50 Hz 6P

Rated current : 16.3/8.13 A
 LRC : 4.6
 Rated torque : 3.78 kgfm
 Locked rotor torque : 160 %
 Breakdown torque : 190 %
 Rated speed : 960 rpm

Moment of inertia (J) : 0.0531 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 105 K
 Design : B

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

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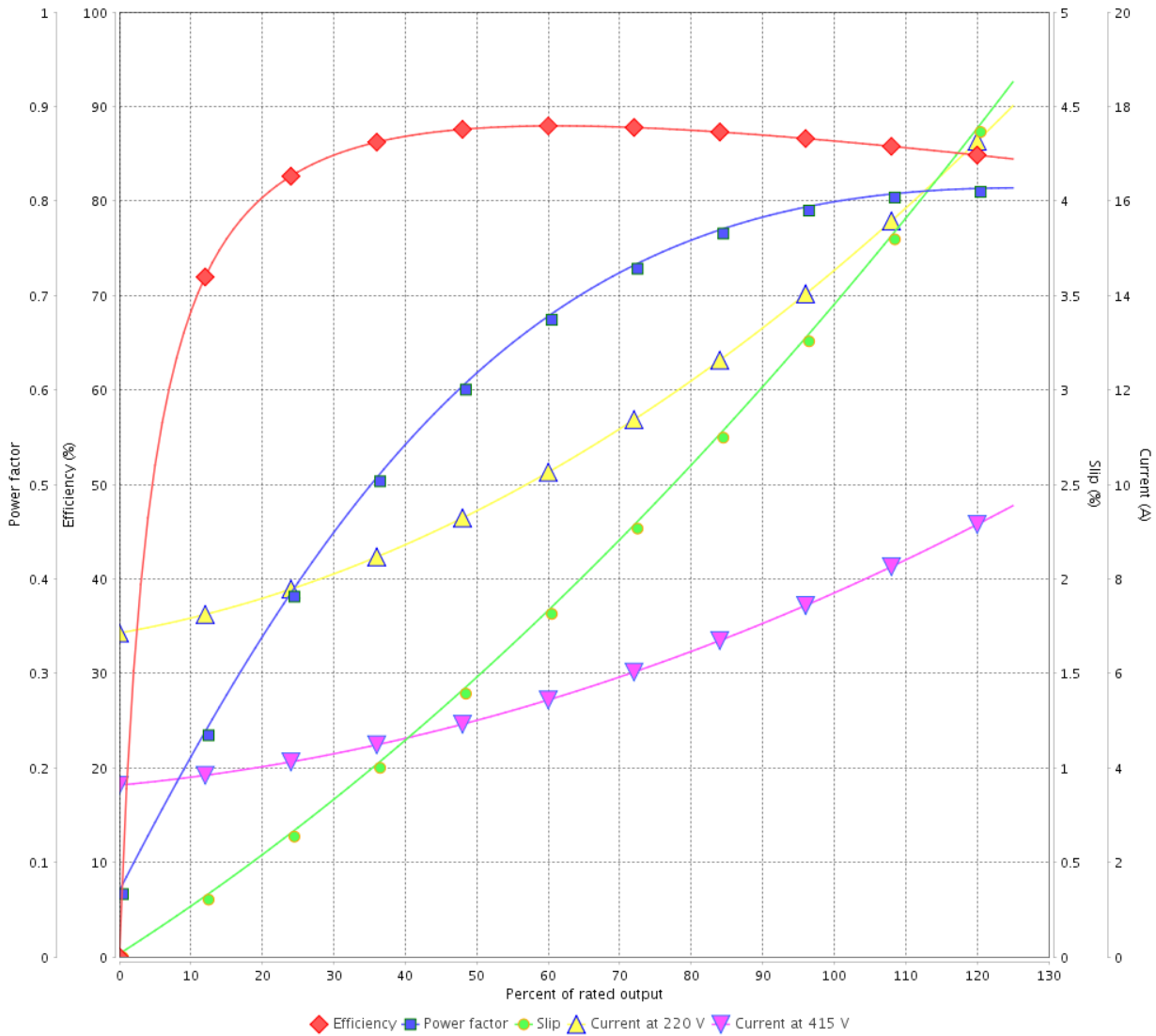
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three-Phase Product code : 12675416

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Performance : 220/415 V 50 Hz 6P

Rated current : 14.6/7.74 A
 LRC : 5.2
 Rated torque : 3.76 kgfm
 Locked rotor torque : 190 %
 Breakdown torque : 210 %
 Rated speed : 965 rpm

Moment of inertia (J) : 0.0531 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 105 K
 Design : B

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