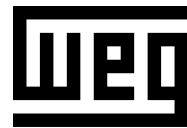


DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :	
Product line	: NEMA Premium Efficiency Three-Phase
Product code :	12636366
Frame	: 254/6TC
Insulation class	: F
Duty cycle	: Cont.(S1)
Ambient temperature	: -20°C to +40°C
Altitude	: 1000 m.a.s.l.
Design	: B
Cooling method	: IC01 - ODP
Mounting	: F-1
Rotation ¹	: Both (CW and CCW)
Starting method	: Direct On Line
Approx. weight ³	: 103 kg
Moment of inertia (J)	: 0.0939 kgm ²
Output [HP]	20
Poles	4
Frequency [Hz]	60
Rated voltage [V]	230/460
Rated current [A]	50.0/25.0
L. R. Amperes [A]	315/158
LRC [A]	6.3x(Code G)
No load current [A]	22.9/11.4
Rated speed [RPM]	1770
Slip [%]	1.67
Rated torque [kgfm]	8.20
Locked rotor torque [%]	240
Breakdown torque [%]	290
Service factor	1.15
Temperature rise	80 K
Locked rotor time	27s (cold) 15s (hot)
Noise level ²	64.0 dB(A)
Efficiency (%)	25%
	50%
	75%
	100%
Power Factor	25%
	50%
	75%
	100%
Bearing type	: <u>Drive end</u> 6309 Z C3 <u>Non drive end</u> 6208 Z C3
Sealing	: Without Without
Lubrication interval	: 20000 h 20000 h
Lubricant amount	: 13 g 8 g
Lubricant type	: Mobil Polyrex EM
Foundation loads	Max. traction : 369 kgf
	Max. compression : 472 kgf
Notes USABLE @208V 55.3A SF 1.00 SFA 55.3A	
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	Date
13/05/2022	
Page	Revision
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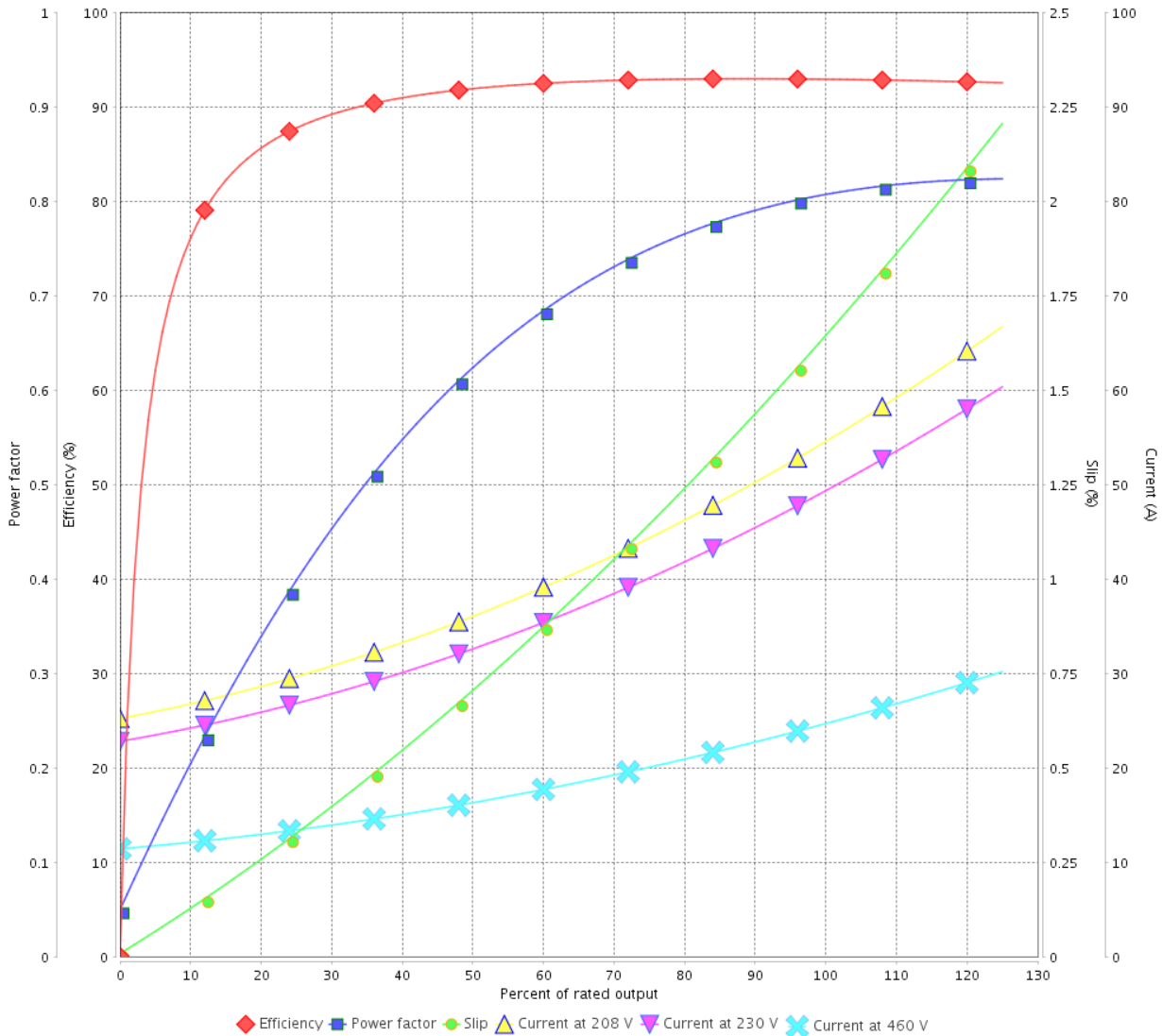
Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : NEMA Premium Efficiency Three-Phase Product code : 12636366

LOAD PERFORMANCE CURVE



Performance : 230/460 V 60 Hz 4P

Rated current : 50.0/25.0 A
 LRC : 6.3
 Rated torque : 8.20 kgfm
 Locked rotor torque : 240 %
 Breakdown torque : 290 %
 Rated speed : 1770 rpm

Moment of inertia (J) : 0.0939 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		Revision
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Date		13/05/2022		

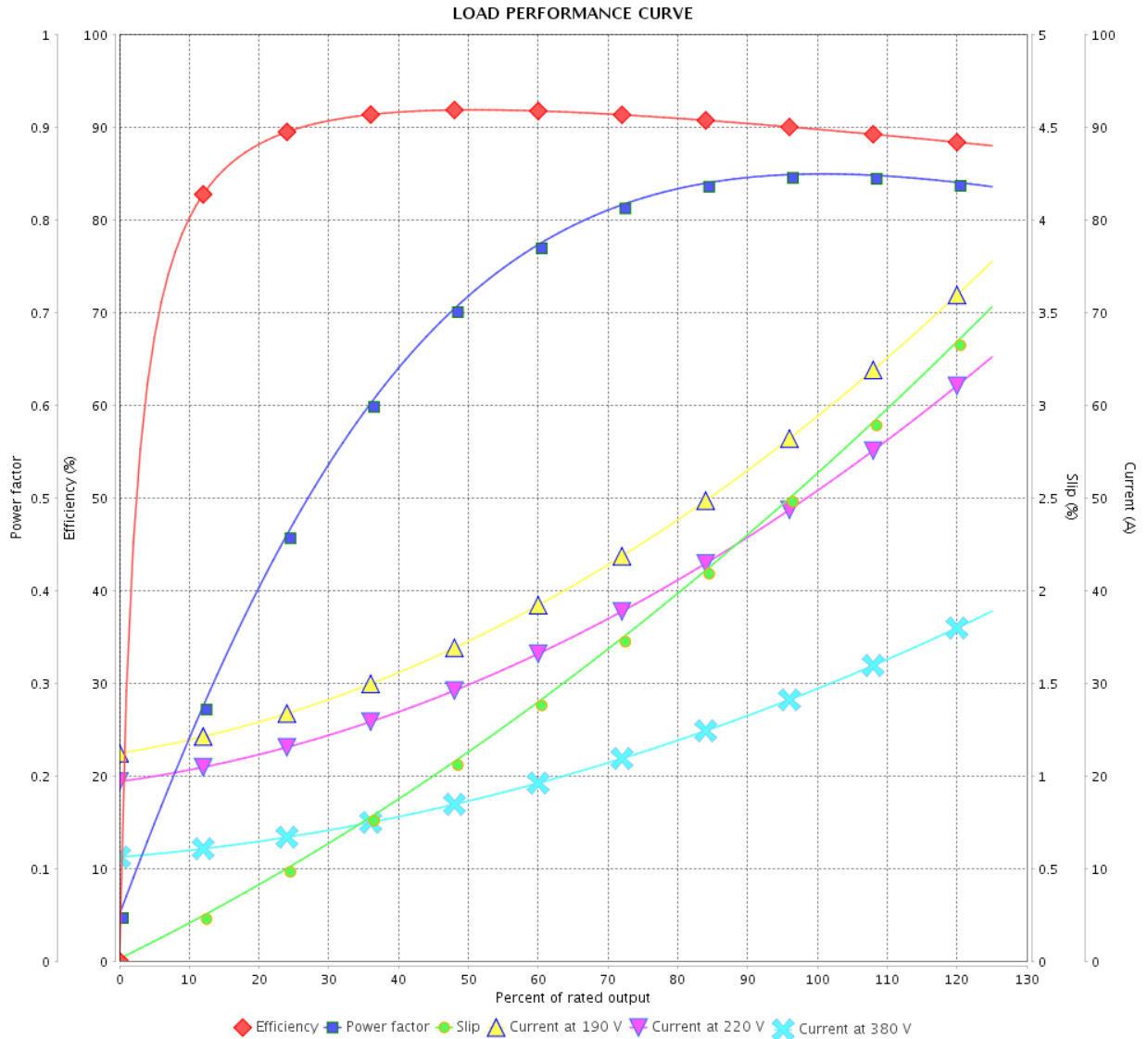
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Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : NEMA Premium Efficiency Three-Phase Product code : 12636366



Performance : 190-220/380 V 50 Hz 4P

Rated current : 59.8-51.6/29.9 A
 LRC : 5.2
 Rated torque : 9.94 kgfm
 Locked rotor torque : 180 %
 Breakdown torque : 220 %
 Rated speed : 1460 rpm

Moment of inertia (J) : 0.0939 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

Rev.	Changes Summary	Performed	Checked	Date
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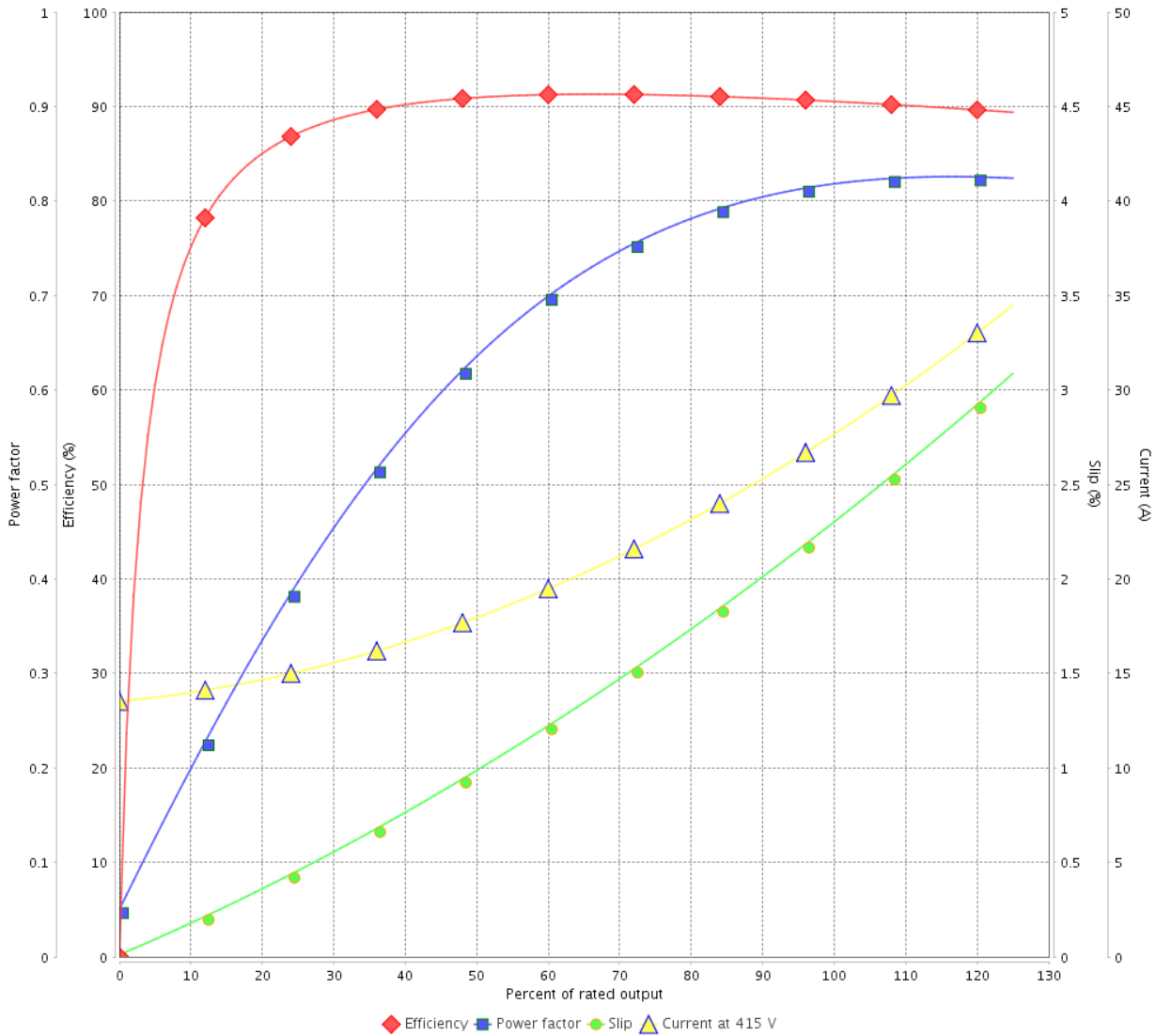
Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : NEMA Premium Efficiency Three-Phase Product code : 12636366

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Performance : 415 V 50 Hz 4P

Rated current	: 28.1 A	Moment of inertia (J)	: 0.0939 kgm ²
LRC	: 6.2	Duty cycle	: Cont.(S1)
Rated torque	: 9.91 kgfm	Insulation class	: F
Locked rotor torque	: 220 %	Service factor	: 1.15
Breakdown torque	: 270 %	Temperature rise	: 80 K
Rated speed	: 1465 rpm	Design	: B

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