

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :	
Product line	: W22 IEEE 841 NEMA Premium Efficiency Three-Phase
Product code :	12761616
Frame	: 143/5TC
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	: 22.4 kg
Moment of inertia (J)	: 0.0049 kgm ²
Output [HP]	1
Poles	4
Frequency [Hz]	60
Rated voltage [V]	460
Rated current [A]	1.47
L. R. Amperes [A]	12.6
LRC [A]	8.6x(Code M)
No load current [A]	0.940
Rated speed [RPM]	1760
Slip [%]	2.22
Rated torque [kgfm]	0.412
Locked rotor torque [%]	290
Breakdown torque [%]	350
Service factor	1.25
Temperature rise	80 K
Locked rotor time	32s (cold) 18s (hot)
Noise level ²	51.0 dB(A)
Efficiency (%)	25%
	50%
	75%
	100%
Power Factor	25%
	50%
	75%
	100%
Losses at normative operating points (speed;torque), in percentage of rated output power	
Losses (%)	P1 (0,9;1,0)
	P2 (0,5;1,0)
	P3 (0,25;1,0)
	P4 (0,9;0,5)
	P5 (0,5;0,5)
	P6 (0,5;0,25)
	P7 (0,25;0,25)
Bearing type	Drive end : 6205 C3 Non drive end : 6204 C3
Sealing	Labyrinth Labyrinth
Lubrication interval	: 20000 h 20000 h
Lubricant amount	: 4 g 4 g
Lubricant type	: Mobil Polyrex EM
Foundation loads	Max. traction : 33 kgf
	Max. compression : 55 kgf
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).	
These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA MG-1.	
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Customer : _____

Notes

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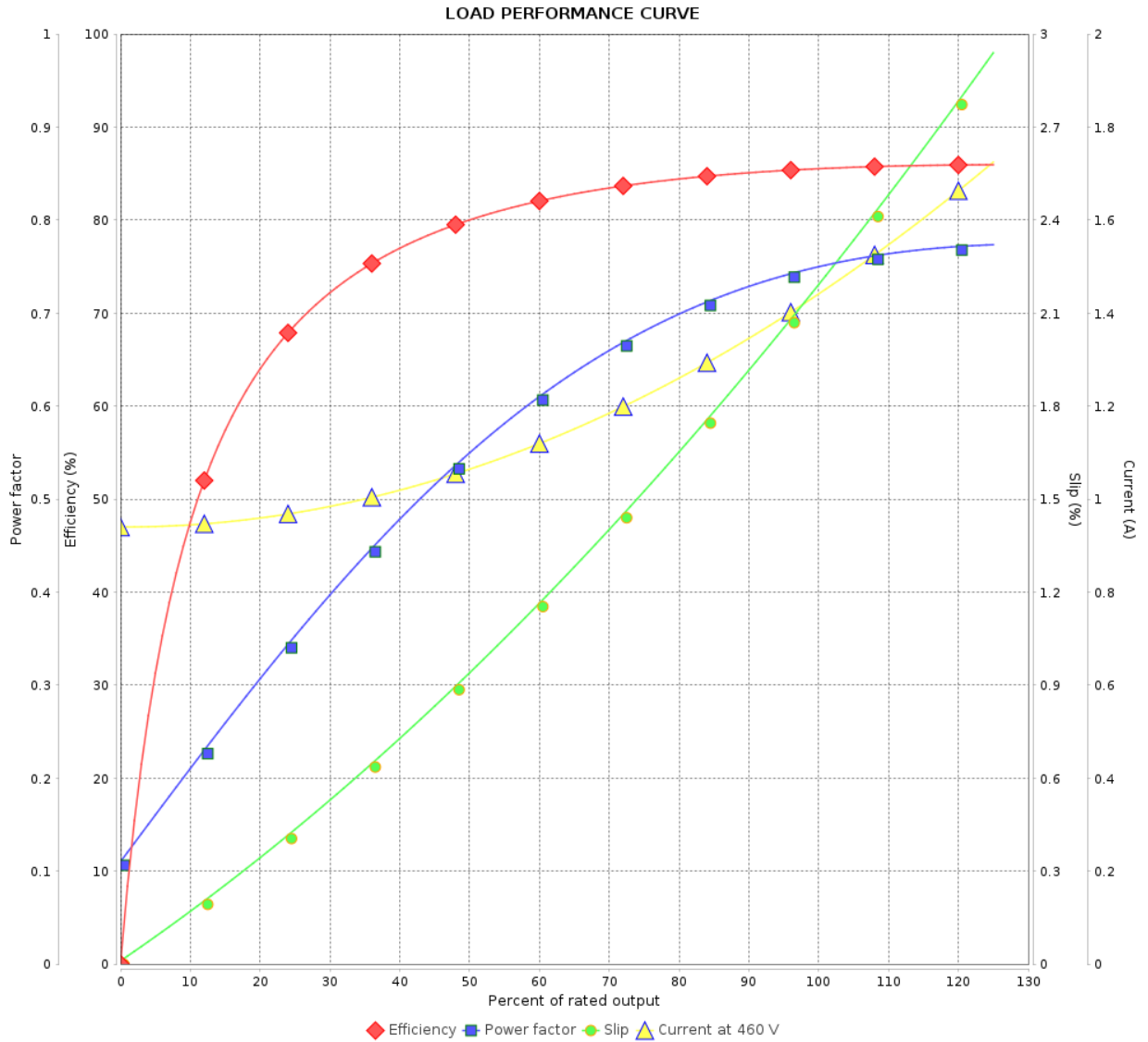
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Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : W22 IEEE 841 NEMA Premium Efficiency Three-Phase Product code : 12761616



Performance : 460 V 60 Hz 4P

Rated current	: 1.47 A	Moment of inertia (J)	: 0.0049 kgm ²
LRC	: 8.6	Duty cycle	: Cont.(S1)
Rated torque	: 0.412 kgfm	Insulation class	: F
Locked rotor torque	: 290 %	Service factor	: 1.25
Breakdown torque	: 350 %	Temperature rise	: 80 K
Rated speed	: 1760 rpm	Design	: B

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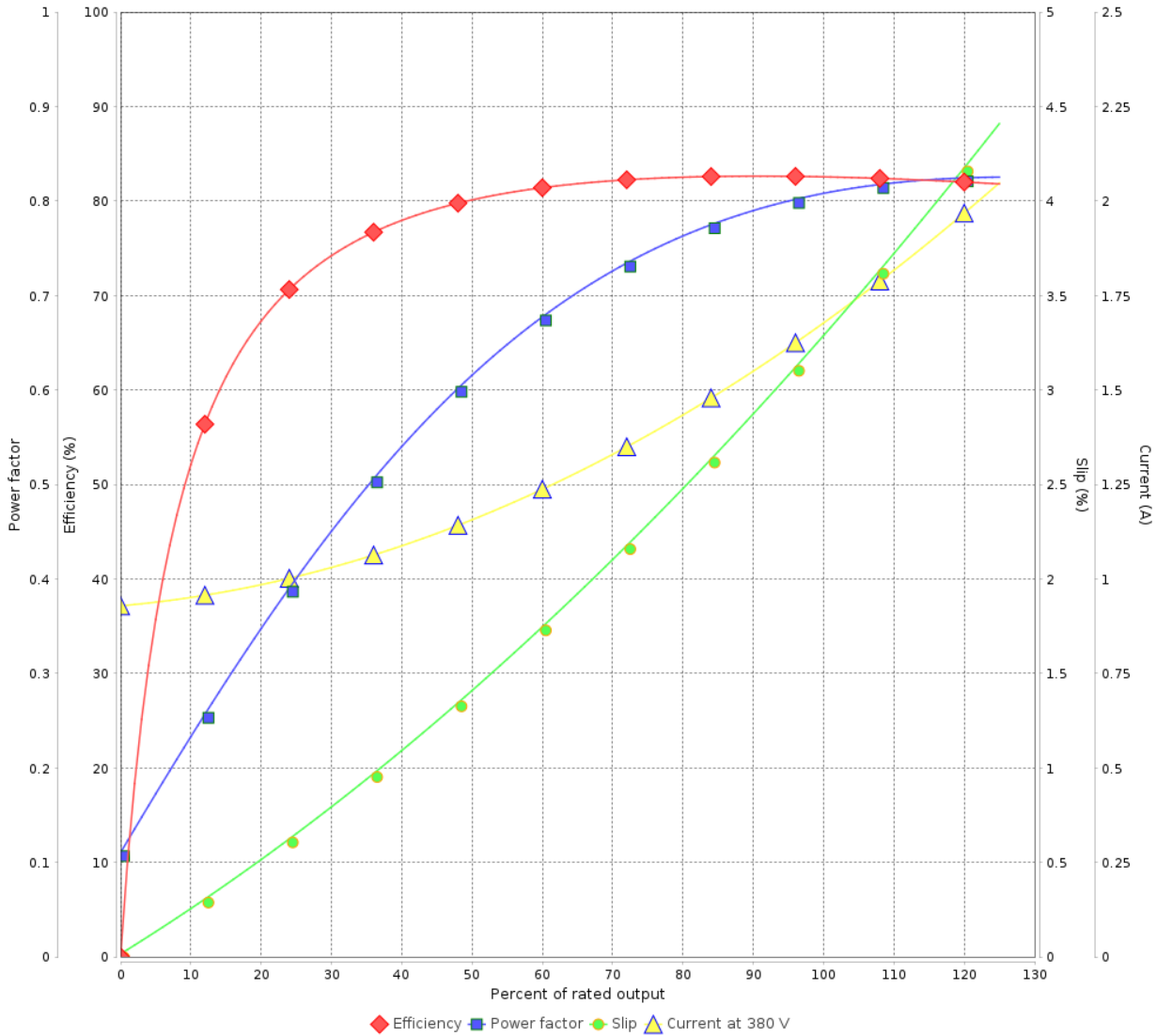
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IEEE 841 NEMA Premium Efficiency Three-Phase Product code : 12761616

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Performance : 380 V 50 Hz 4P IE3

Rated current	: 1.71 A	Moment of inertia (J)	: 0.0049 kgm ²
LRC	: 6.4	Duty cycle	: Cont.(S1)
Rated torque	: 0.501 kgfm	Insulation class	: F
Locked rotor torque	: 220 %	Service factor	: 1.25
Breakdown torque	: 250 %	Temperature rise	: 80 K
Rated speed	: 1450 rpm	Design	: B

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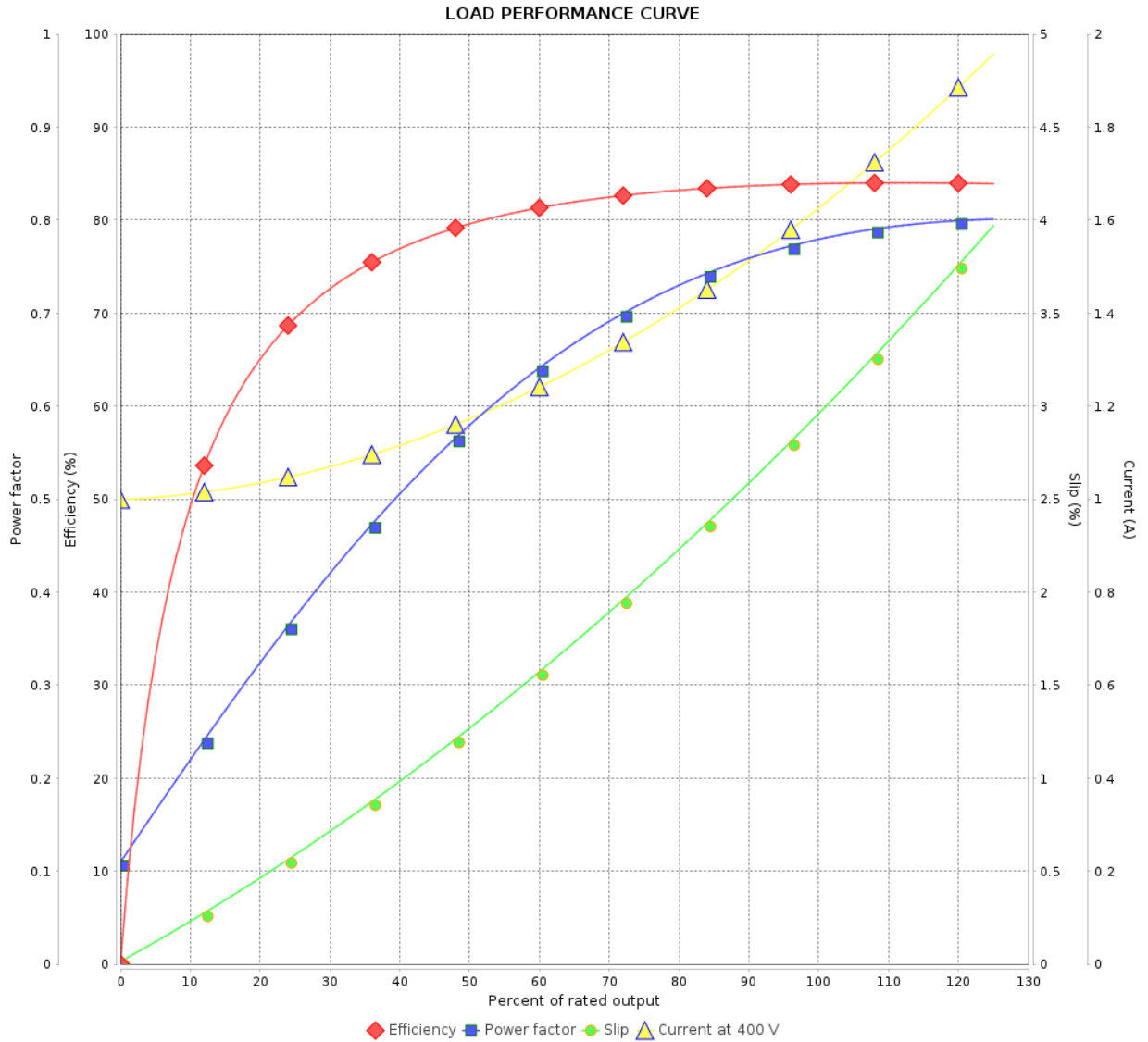
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Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : W22 IEEE 841 NEMA Premium Efficiency Three-Phase Product code : 12761616



Performance : 400 V 50 Hz 4P IE3

Rated current	: 1.65 A	Moment of inertia (J)	: 0.0049 kgm ²
LRC	: 7.0	Duty cycle	: Cont.(S1)
Rated torque	: 0.499 kgfm	Insulation class	: F
Locked rotor torque	: 240 %	Service factor	: 1.25
Breakdown torque	: 290 %	Temperature rise	: 80 K
Rated speed	: 1455 rpm	Design	: B

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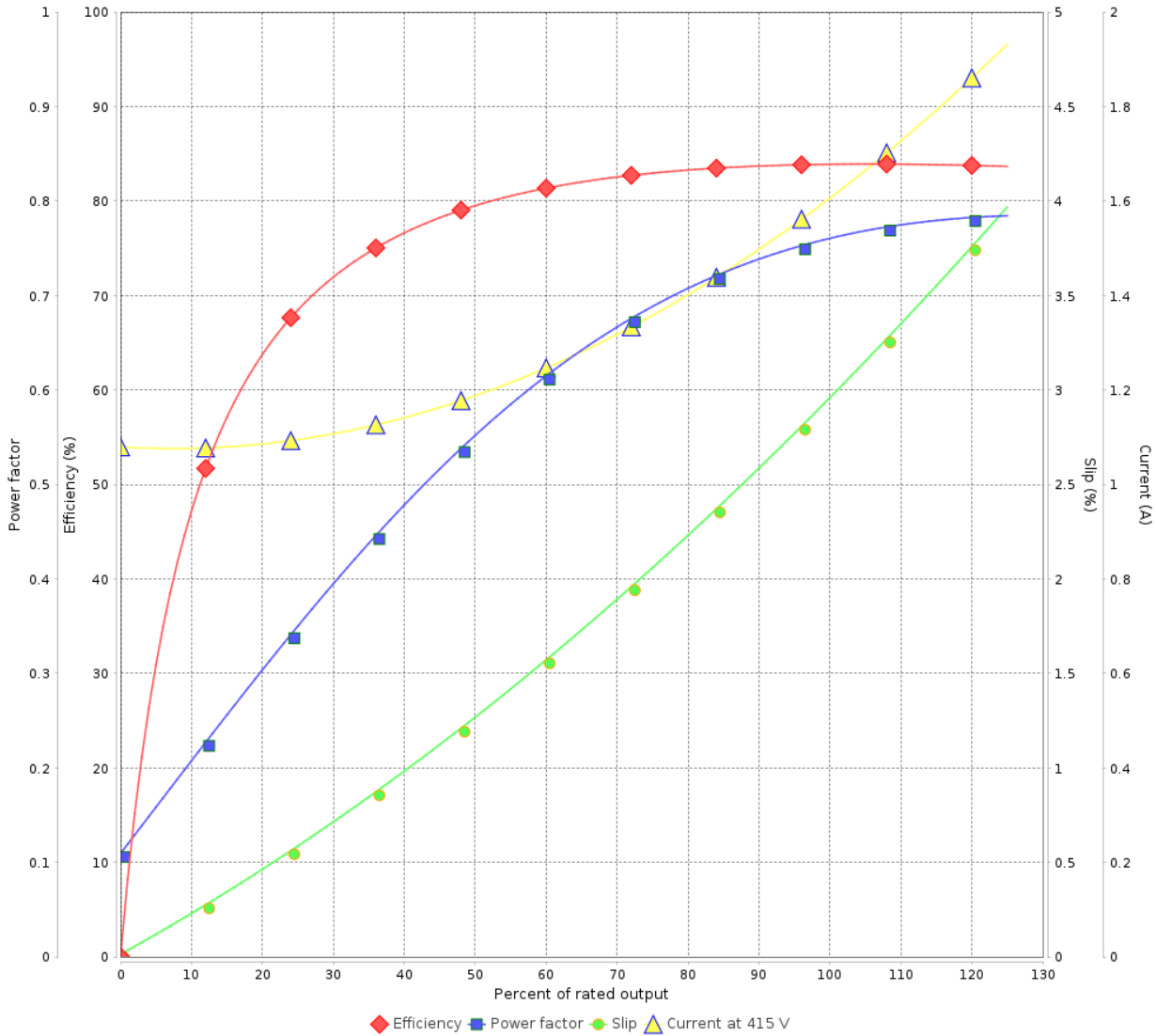
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IEEE 841 NEMA Premium Efficiency Three-Phase Product code : 12761616

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Performance : 415 V 50 Hz 4P IE3

Rated current	: 1.63 A	Moment of inertia (J)	: 0.0049 kgm ²
LRC	: 7.4	Duty cycle	: Cont.(S1)
Rated torque	: 0.499 kgfm	Insulation class	: F
Locked rotor torque	: 260 %	Service factor	: 1.25
Breakdown torque	: 310 %	Temperature rise	: 80 K
Rated speed	: 1455 rpm	Design	: B

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