

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W40 NEMA Premium Efficiency Three-Phase Product code : 15963891

Frame	: 284/6TS	Cooling method	: IC01 - ODP
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	: 154 kg
Protection degree	: IP23	Moment of inertia (J)	: 0.0852 kgm ²
Design	: B		

Output [HP]	40	30	30	30
Poles	2	2	2	2
Frequency [Hz]	60	50	50	50
Rated voltage [V]	230/460	380	400	415
Rated current [A]	93.7/46.8	41.9	40.7	40.2
L. R. Amperes [A]	609/304	293	310	310
LRC [A]	6.5x(Code G)	7.0x(Code H)	7.6x(Code J)	7.7x(Code J)
No load current [A]	30.8/15.4	14.3	16.6	19.0
Rated speed [RPM]	3540	2950	2955	2960
Slip [%]	1.67	1.67	1.50	1.33
Rated torque [kgfm]	8.20	7.38	7.37	7.37
Locked rotor torque [%]	190	210	229	250
Breakdown torque [%]	240	260	290	320
Service factor	1.25	1.00	1.00	1.00
Temperature rise	80 K	80 K	80 K	80 K
Locked rotor time	14s (cold) 8s (hot)	30s (cold) 17s (hot)	14s (cold) 8s (hot)	14s (cold) 8s (hot)
Noise level ²	73.0 dB(A)			
Efficiency (%)	25%			
	50%	91.7	90.0	90.1
	75%	92.4	91.4	91.4
	100%	92.4	92.8	92.8
Power Factor	25%			
	50%	0.76	0.73	0.70
	75%	0.84	0.82	0.79
	100%	0.87	0.86	0.84

	<u>Drive end</u>	<u>Non drive end</u>	Foundation loads
Bearing type	: 6311 Z C3	6211 Z C3	Max. traction
Sealing	: Without	Without	Max. compression
	Bearing Seal	Bearing Seal	
Lubrication interval	: 20000 h	20000 h	
Lubricant amount	: 18 g	11 g	
Lubricant type	: Mobil Polyrex EM		

Notes

USABLE @208V 104A SF 1.15 SFA 119A

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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Performed by				
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Date	30/10/2024			

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Revision

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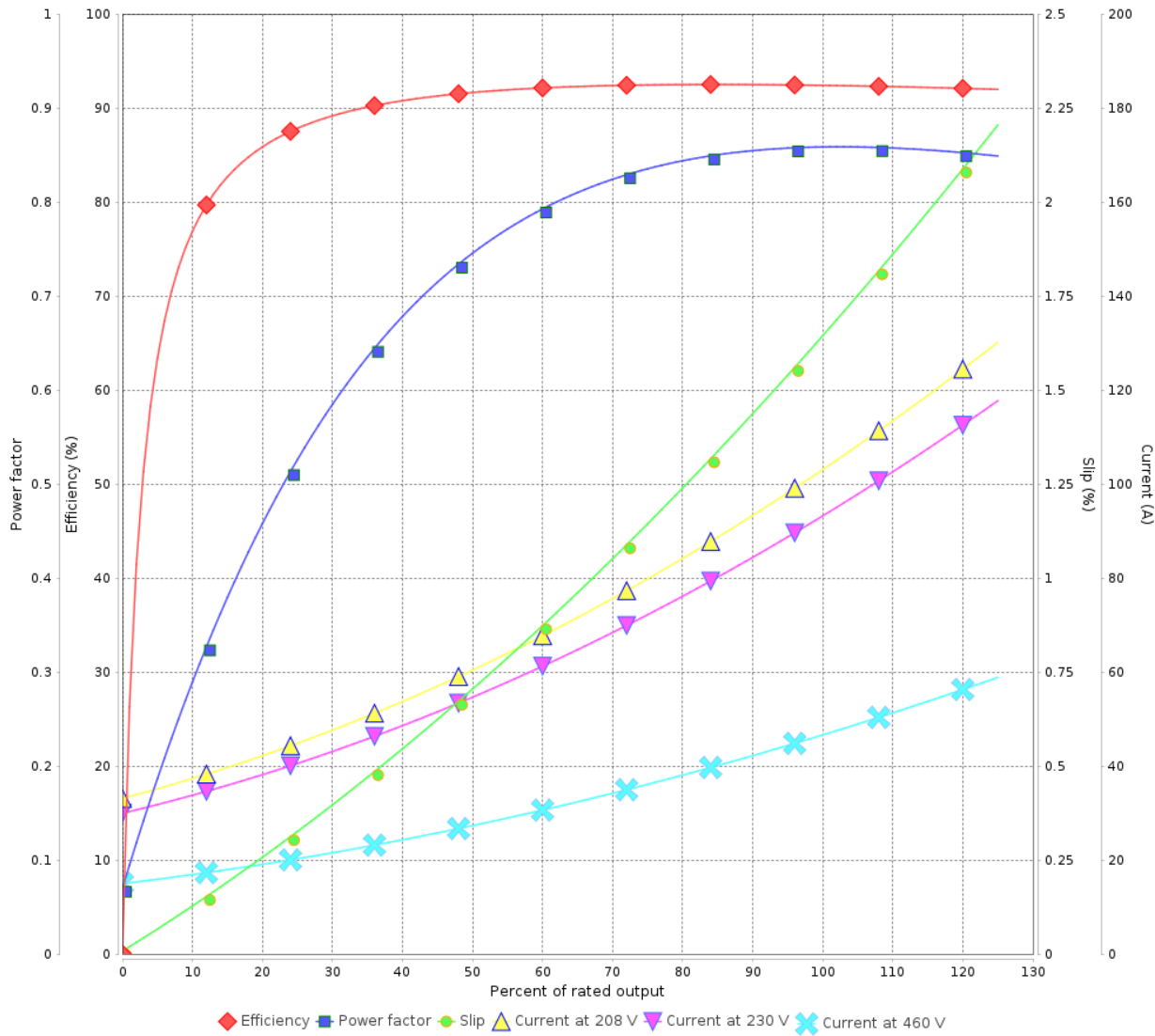
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W40 NEMA Premium Efficiency Three-Phase Product code : 15963891

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Performance : 230/460 V 60 Hz 2P			
Rated current	: 93.7/46.8 A	Moment of inertia (J)	: 0.0852 kgm ²
LRC	: 6.5	Duty cycle	: Cont.(S1)
Rated torque	: 8.20 kgfm	Insulation class	: F
Locked rotor torque	: 190 %	Service factor	: 1.25
Breakdown torque	: 240 %	Temperature rise	: 80 K
Rated speed	: 3540 rpm	Design	: B

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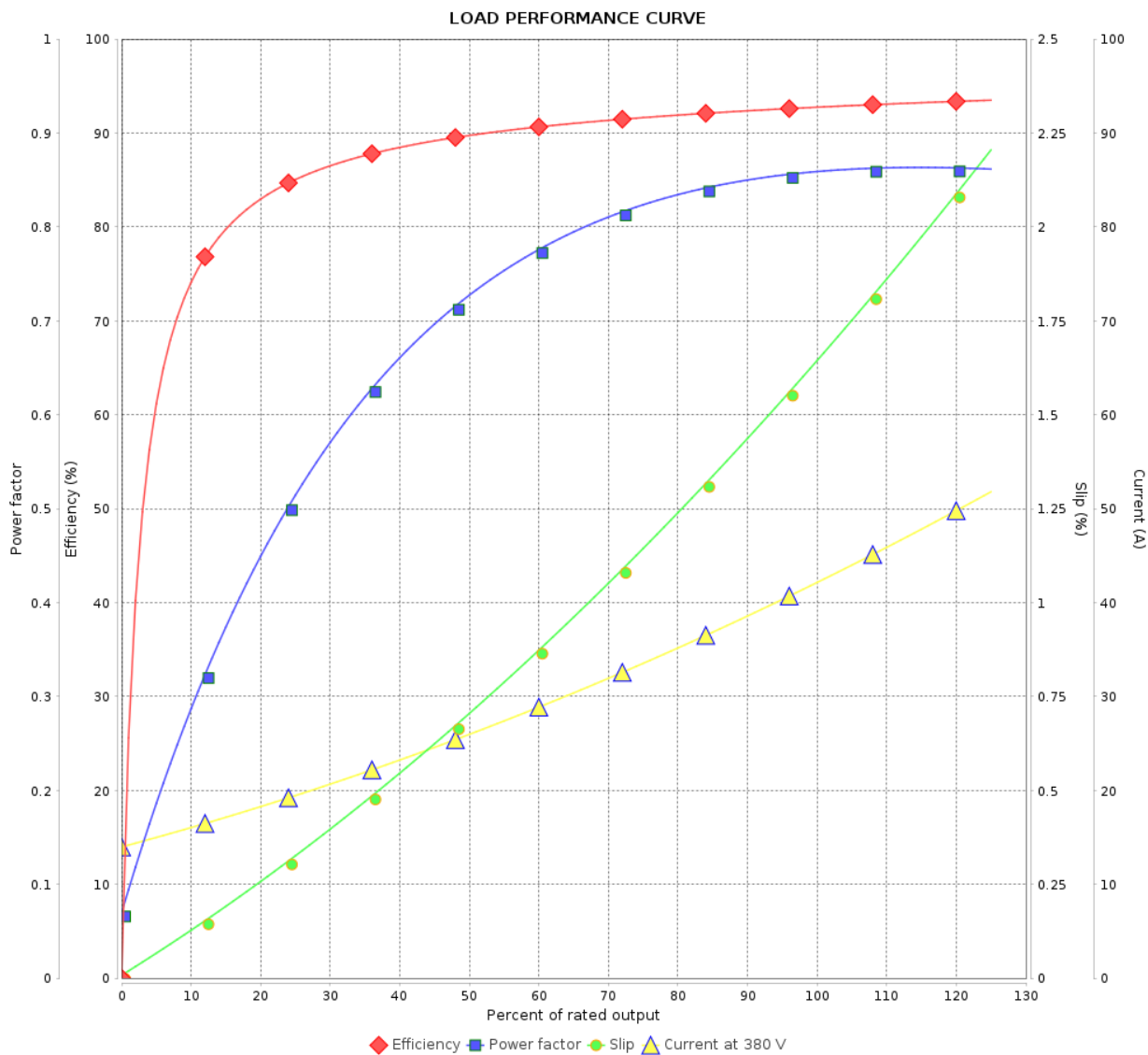
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W40 NEMA Premium Efficiency
Three-Phase

Product code : 15963891



Performance : 380 V 50 Hz 2P IE3

Rated current : 41.9 A
LRC : 7.0
Rated torque : 7.38 kgfm
Locked rotor torque : 210 %
Breakdown torque : 260 %
Rated speed : 2950 rpm

Moment of inertia (J) : 0.0852 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.00
Temperature rise : 80 K
Design : B

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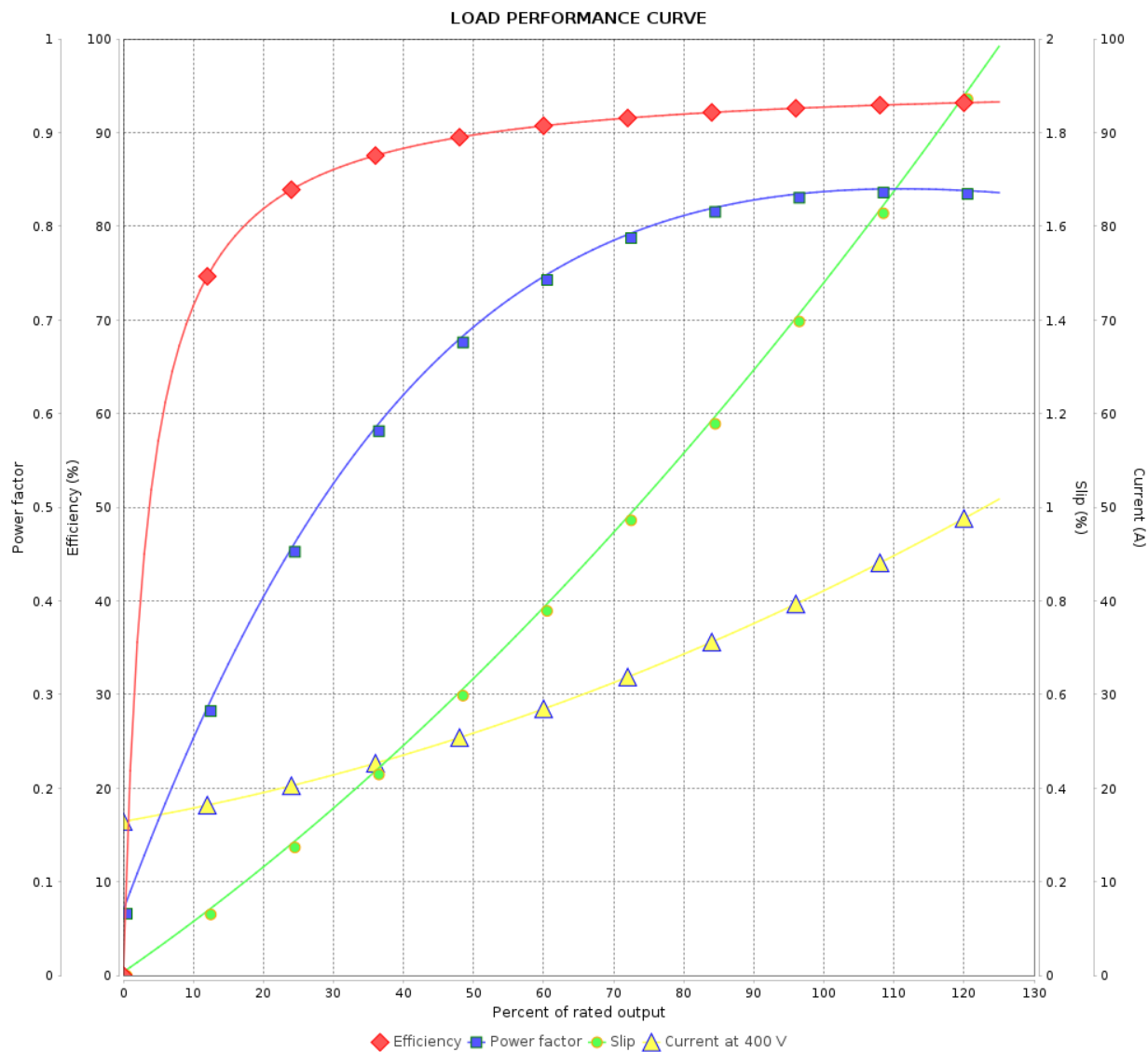
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W40 NEMA Premium Efficiency
Three-Phase

Product code : 15963891



Performance : 400 V 50 Hz 2P IE3

Rated current : 40.7 A
LRC : 7.6
Rated torque : 7.37 kgfm
Locked rotor torque : 229 %
Breakdown torque : 290 %
Rated speed : 2955 rpm

Moment of inertia (J) : 0.0852 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.00
Temperature rise : 80 K
Design : B

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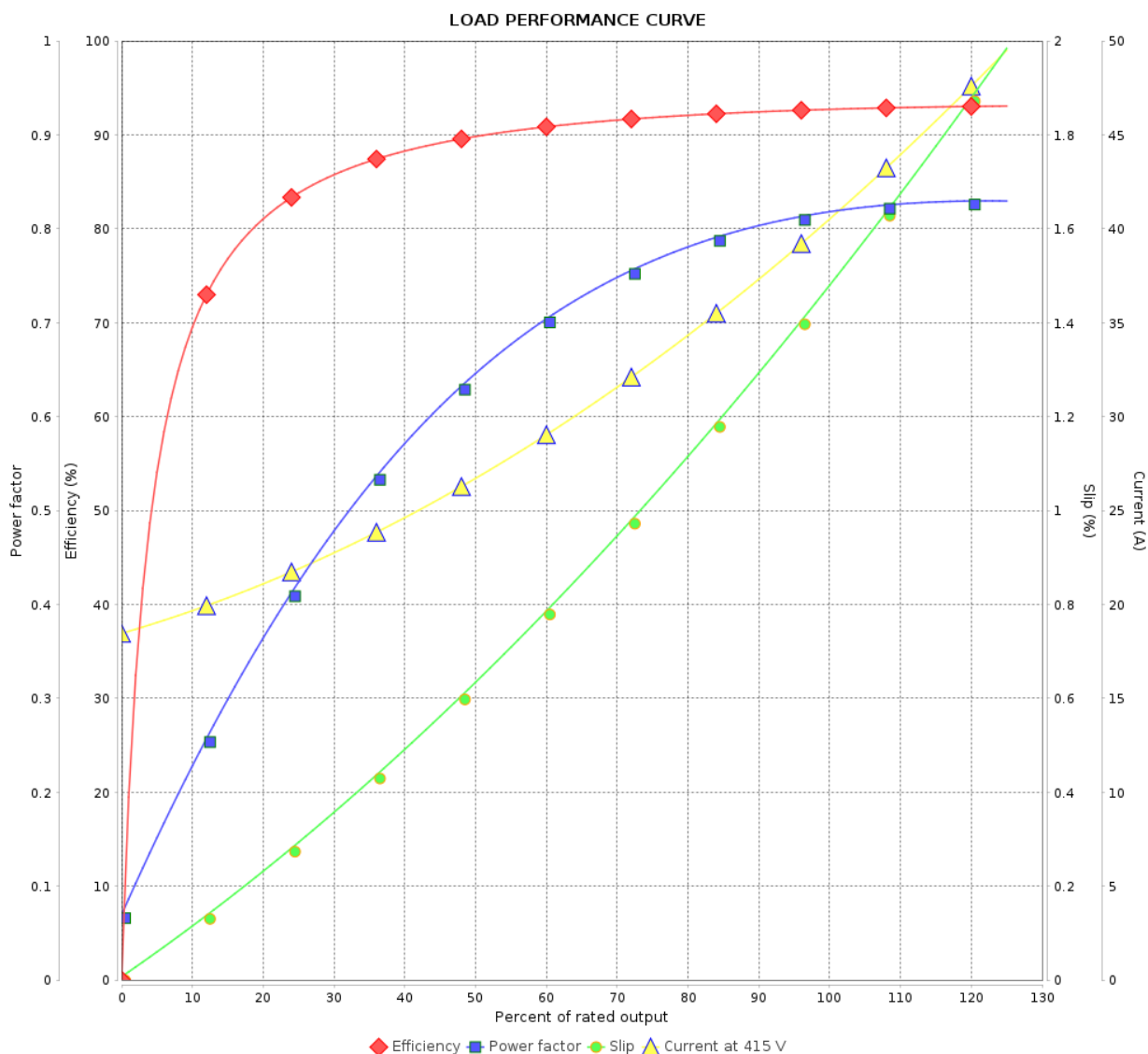
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W40 NEMA Premium Efficiency
Three-Phase

Product code : 15963891



Performance : 415 V 50 Hz 2P IE3

Rated current : 40.2 A
LRC : 7.7
Rated torque : 7.37 kgfm
Locked rotor torque : 250 %
Breakdown torque : 320 %
Rated speed : 2960 rpm

Moment of inertia (J) : 0.0852 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.00
Temperature rise : 80 K
Design : B

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