

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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Revision

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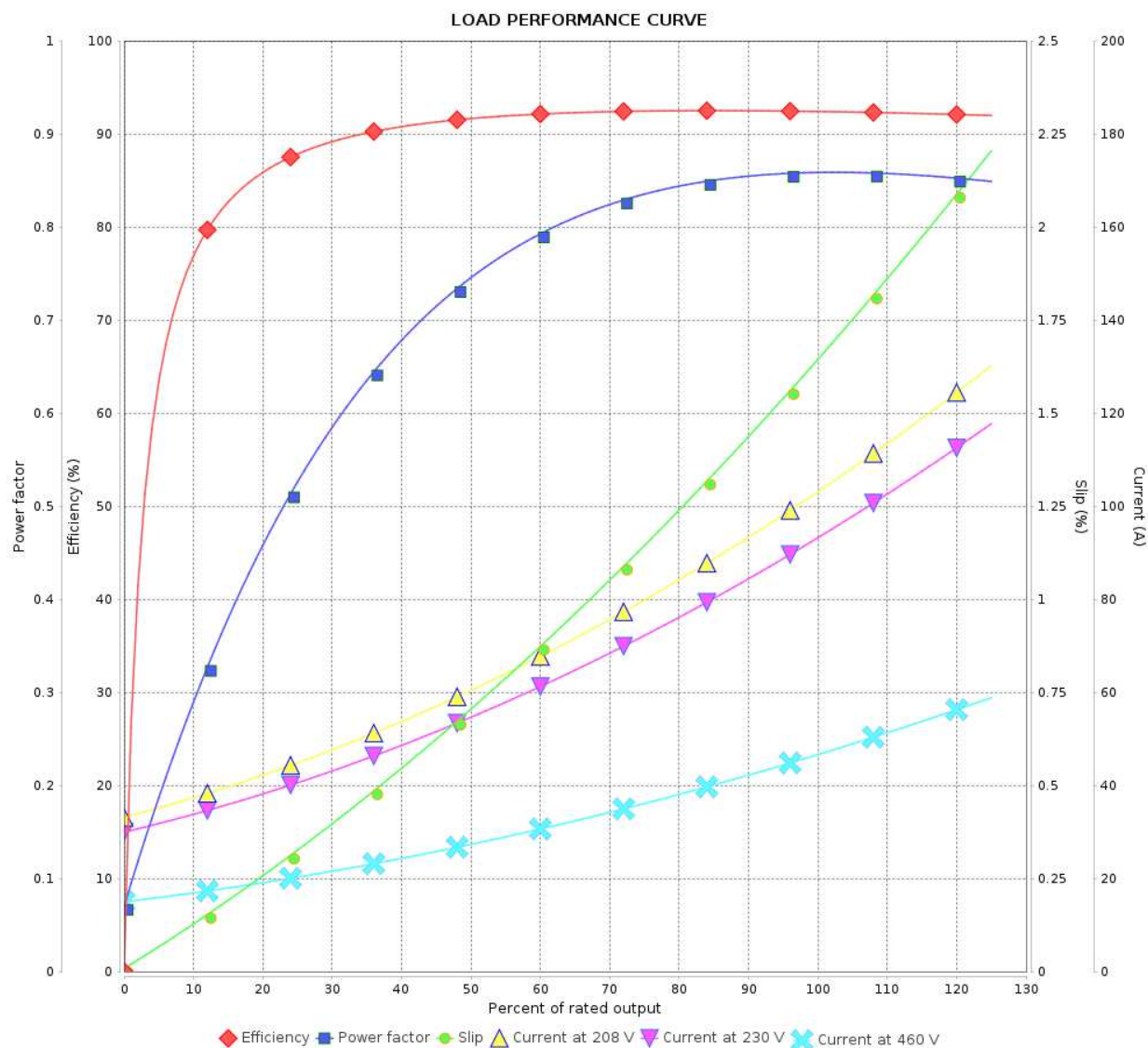
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W40 NEMA Premium Efficiency
Three-Phase

Product code : 15963891



Performance : 230/460 V 60 Hz 2P

Rated current : 93.7/46.8 A
LRC : 6.5
Rated torque : 8.20 kgfm
Locked rotor torque : 190 %
Breakdown torque : 240 %
Rated speed : 3540 rpm

Moment of inertia (J) : 0.0852 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.25
Temperature rise : 80 K
Design : B

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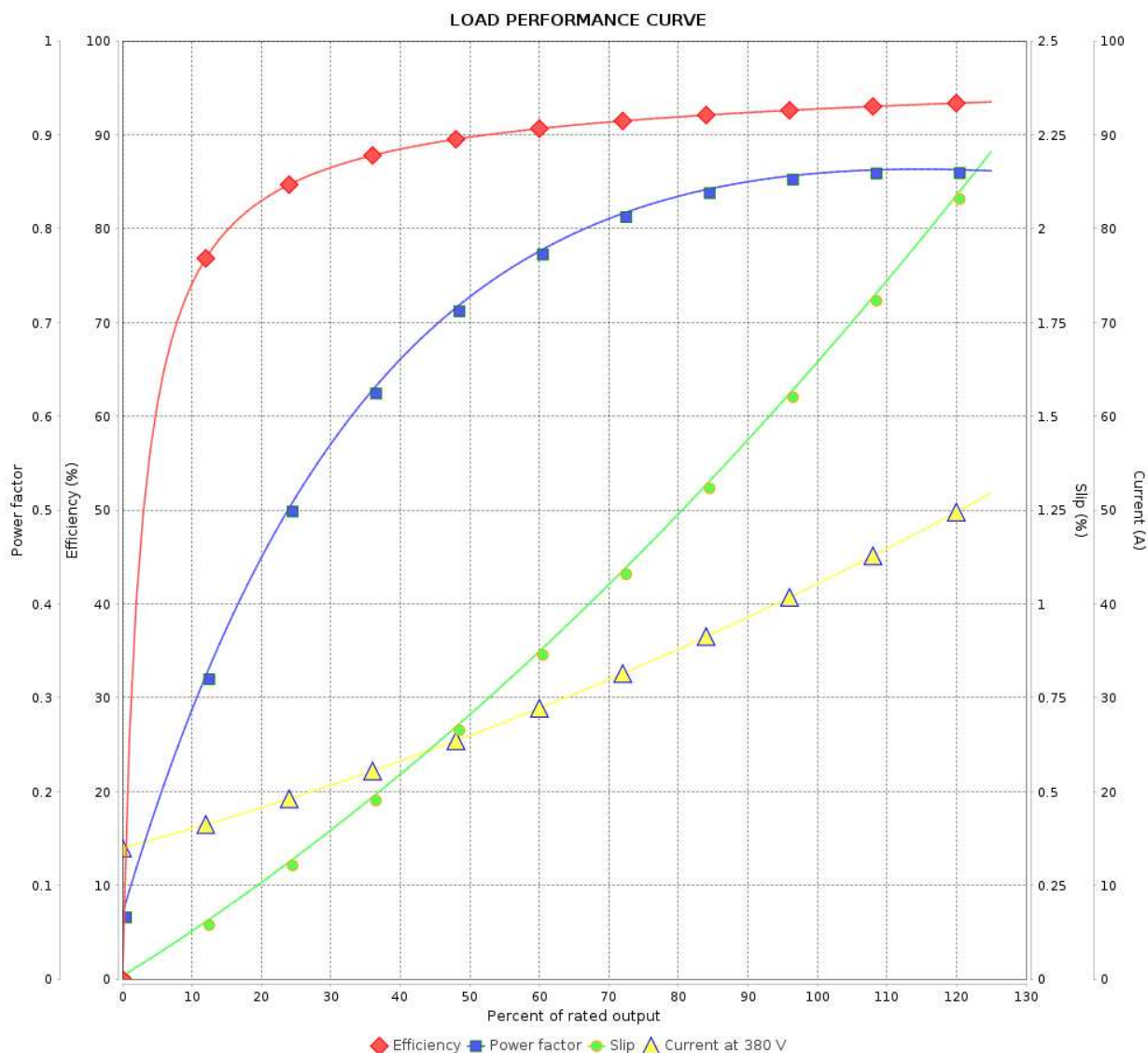
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W40 NEMA Premium Efficiency
Three-Phase

Product code : 15963891



Performance : 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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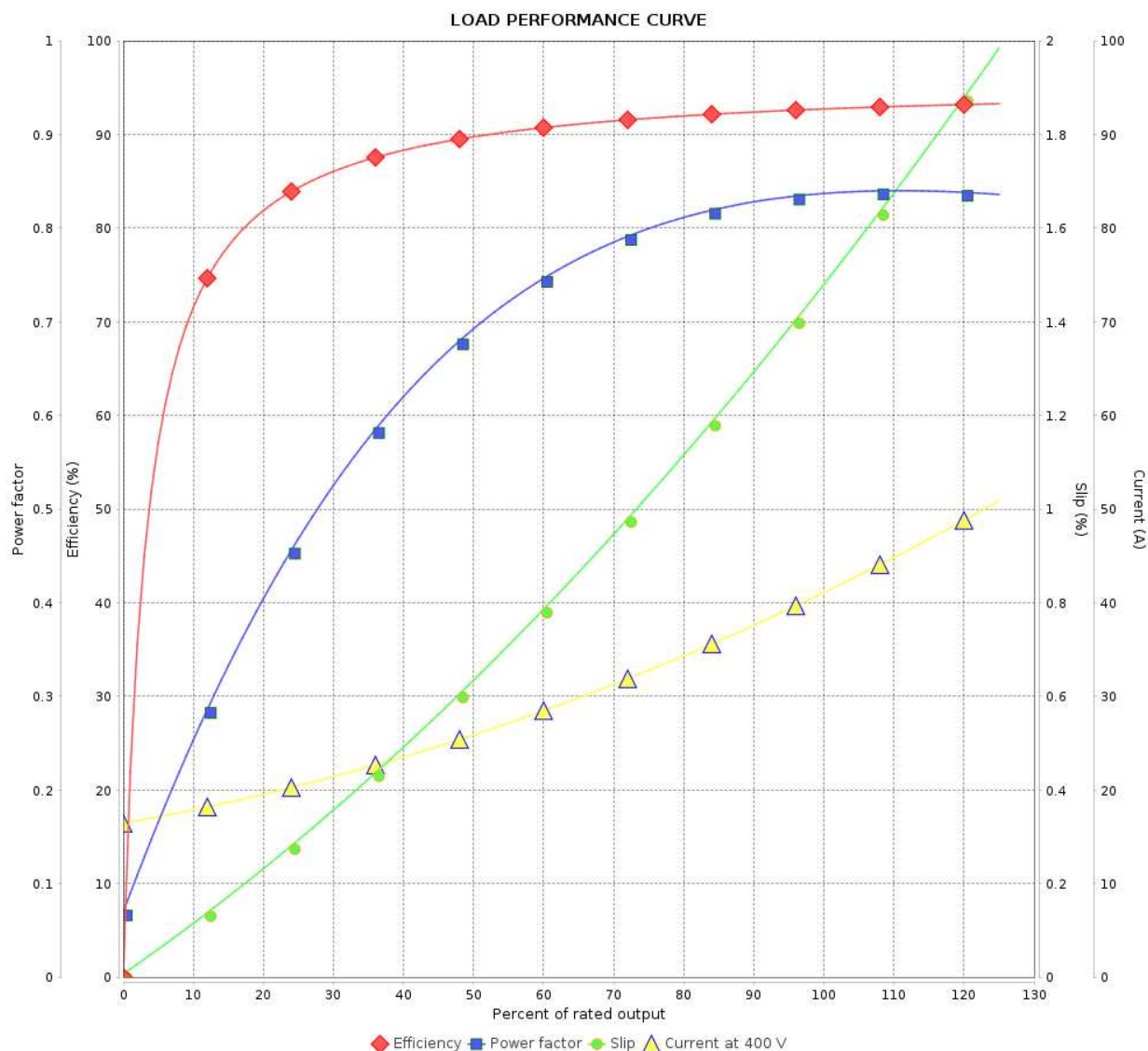
Three Phase Induction Motor - Squirrel Cage



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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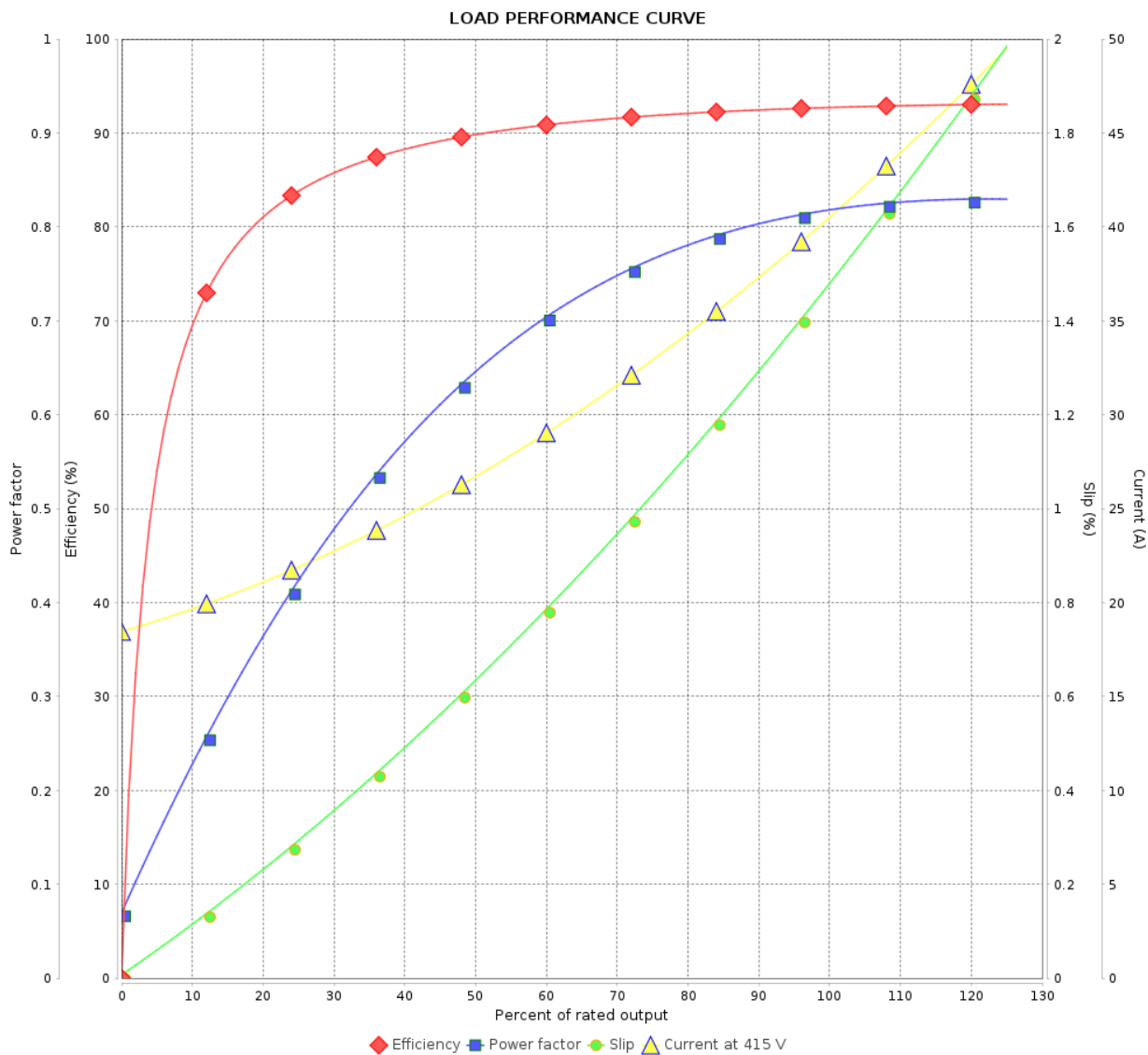
Three Phase Induction Motor - Squirrel Cage



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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