

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W40 NEMA Premium Efficiency Three-Phase Product code : 14865595

Frame	: 404/5TSD	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	: 422 kg
Protection degree	: IP23	Moment of inertia (J)	: 0.3708 kgm ²
Design	: B		

Output [HP]	150	100	100	100
Poles	2	2	2	2
Frequency [Hz]	60	50	50	50
Rated voltage [V]	230/460	380	400	415
Rated current [A]	333/167	137	133	130
L. R. Amperes [A]	2201/1100	985	1050	1115
LRC [A]	6.6x(Code G)	7.2x(Code H)	7.9x(Code J)	8.6x(Code K)
No load current [A]	75.4/37.7	37.0	41.3	45.0
Rated speed [RPM]	3550	2960	2965	2965
Slip [%]	1.39	1.33	1.17	1.17
Rated torque [kgfm]	30	24	24	24
Locked rotor torque [%]	200	229	250	270
Breakdown torque [%]	240	270	310	340
Service factor	1.25	1.00	1.00	1.00
Temperature rise	80 K	80 K	80 K	80 K
Locked rotor time	16s (cold) 9s (hot)	21s (cold) 12s (hot)	19s (cold) 11s (hot)	18s (cold) 10s (hot)
Noise level ²	84.0 dB(A)			
Efficiency (%)	25%			
	50%	93.6	93.7	93.2
	75%	94.1	94.4	94.2
	100%	94.1	94.7	94.7
Power Factor	25%			
	50%	0.79	0.76	0.70
	75%	0.86	0.85	0.81
	100%	0.88	0.88	0.86

	<u>Drive end</u>	<u>Non drive end</u>	Foundation loads	
Bearing type	: 6314 C3	6212 Z C3	Max. traction	: 598 kgf
Sealing	: Without	Without	Max. compression	: 1039 kgf
	Bearing Seal	Bearing Seal		
Lubrication interval	: 14418 h	20000 h		
Lubricant amount	: 27 g	13 g		
Lubricant type	: Mobil Polyrex EM			

Notes

USABLE @208V 369A SF 1.15 SFA 425A

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	Checked	Date
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Date	05/10/2026			

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Revision

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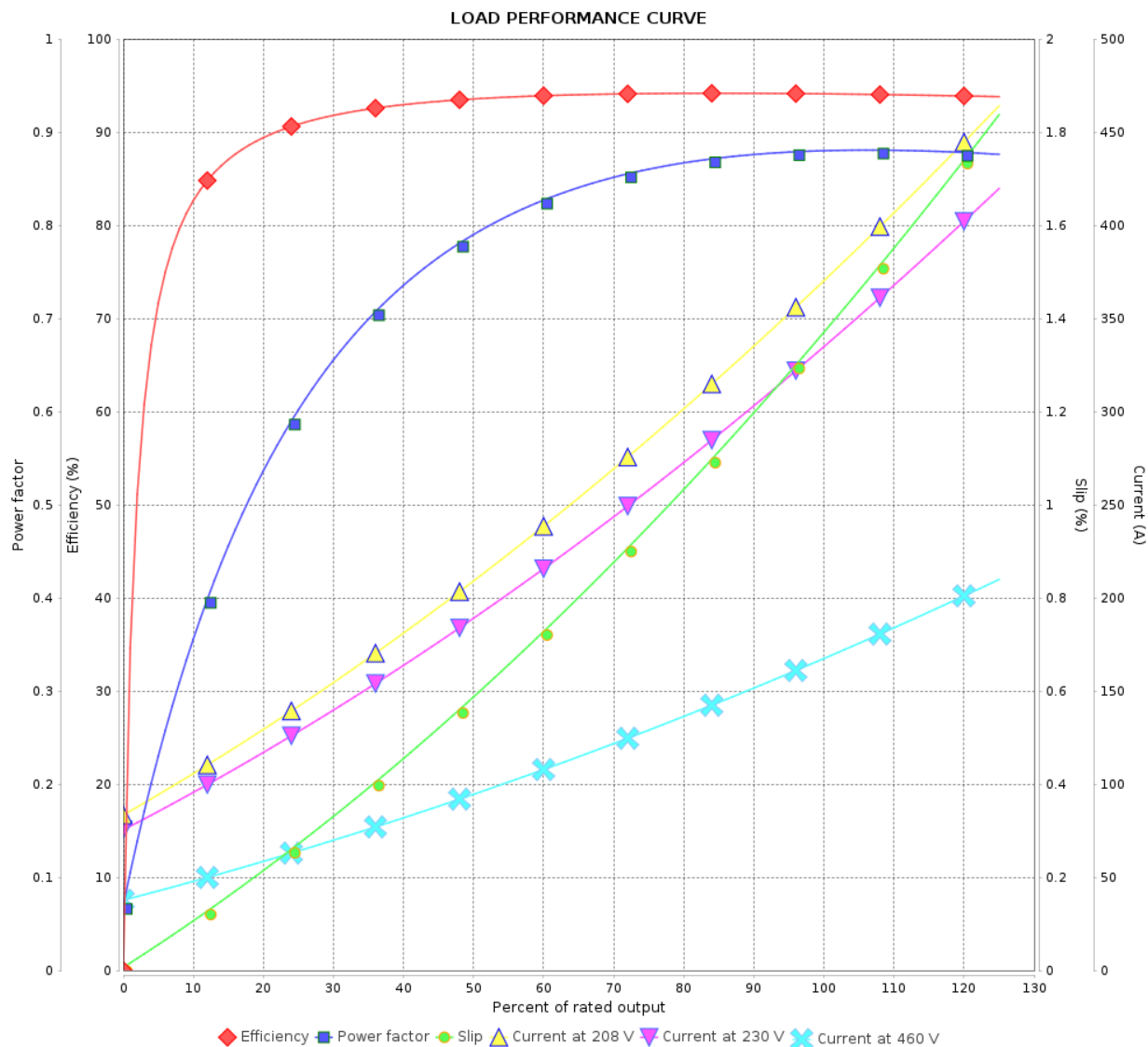
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W40 NEMA Premium Efficiency
Three-Phase

Product code : 14865595



Performance : 230/460 V 60 Hz 2P

Rated current : 333/167 A
LRC : 6.6
Rated torque : 30 kgfm
Locked rotor torque : 200 %
Breakdown torque : 240 %
Rated speed : 3550 rpm

Moment of inertia (J) : 0.3708 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.25
Temperature rise : 80 K
Design : B

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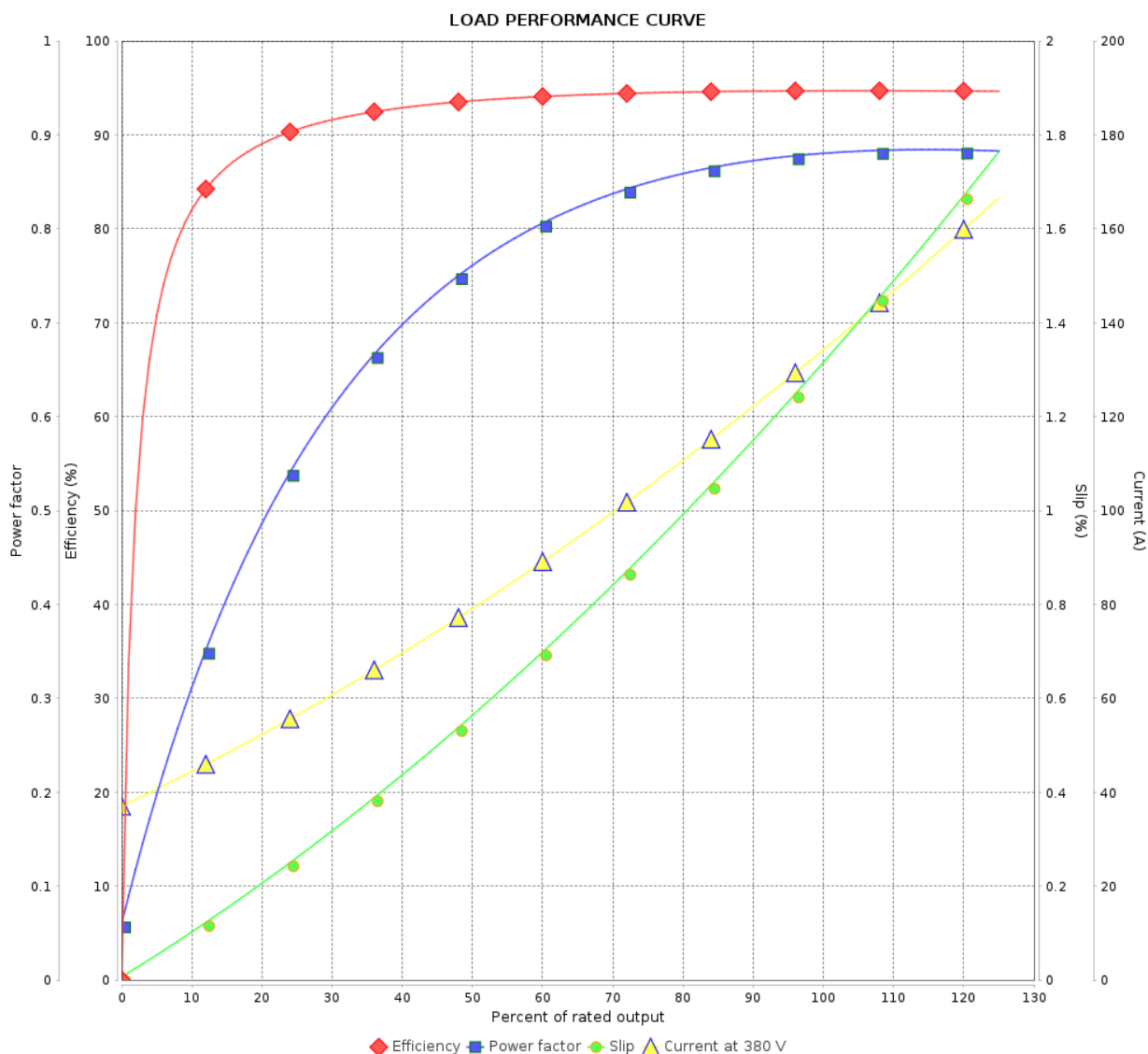
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W40 NEMA Premium Efficiency
Three-Phase

Product code : 14865595



Performance : 380 V 50 Hz 2P IE3

Rated current : 137 A
LRC : 7.2
Rated torque : 24 kgfm
Locked rotor torque : 229 %
Breakdown torque : 270 %
Rated speed : 2960 rpm

Moment of inertia (J) : 0.3708 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.00
Temperature rise : 80 K
Design : B

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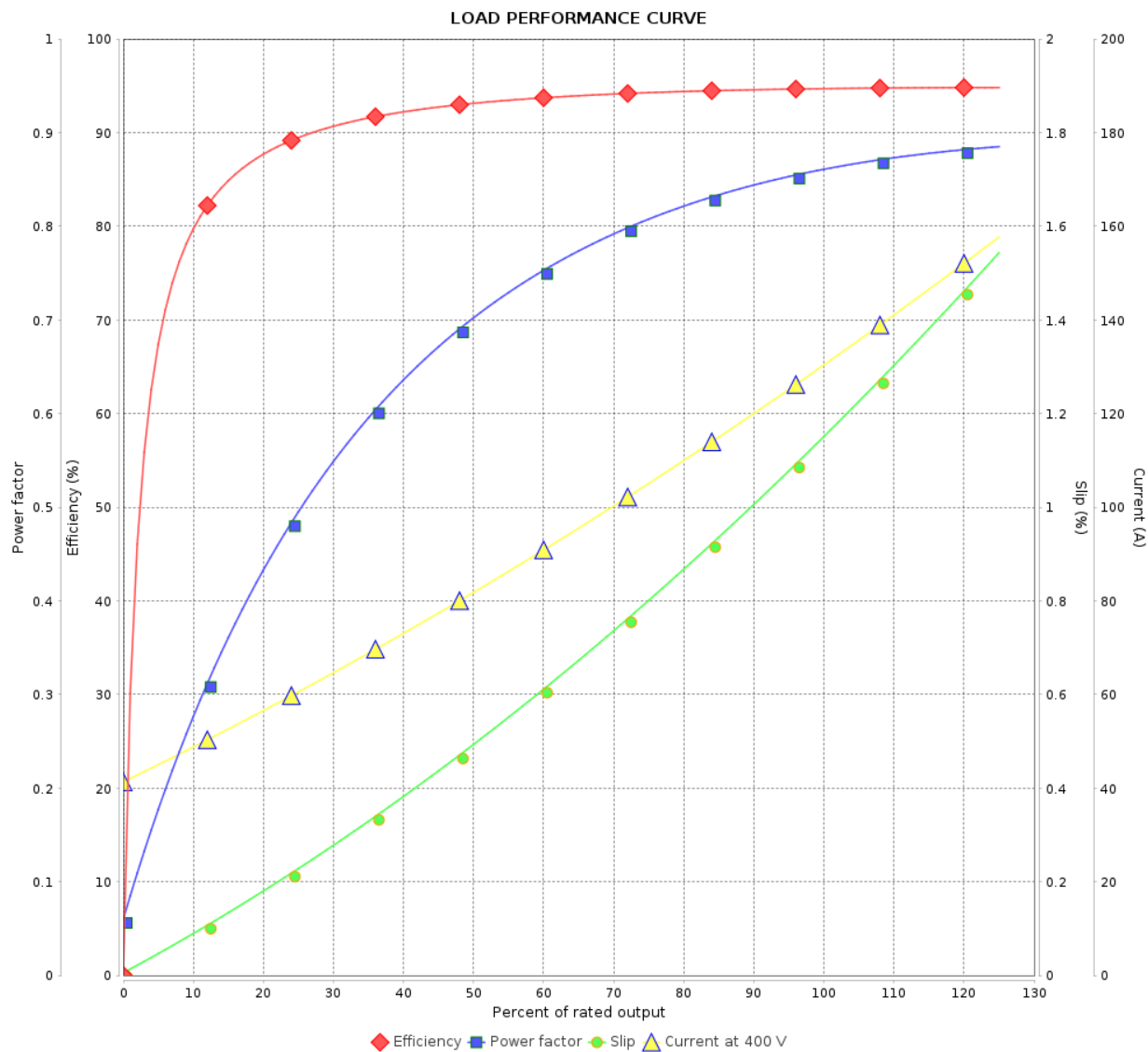
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W40 NEMA Premium Efficiency
Three-Phase

Product code : 14865595



Performance : 400 V 50 Hz 2P IE3

Rated current : 133 A
LRC : 7.9
Rated torque : 24 kgfm
Locked rotor torque : 250 %
Breakdown torque : 310 %
Rated speed : 2965 rpm

Moment of inertia (J) : 0.3708 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.00
Temperature rise : 80 K
Design : B

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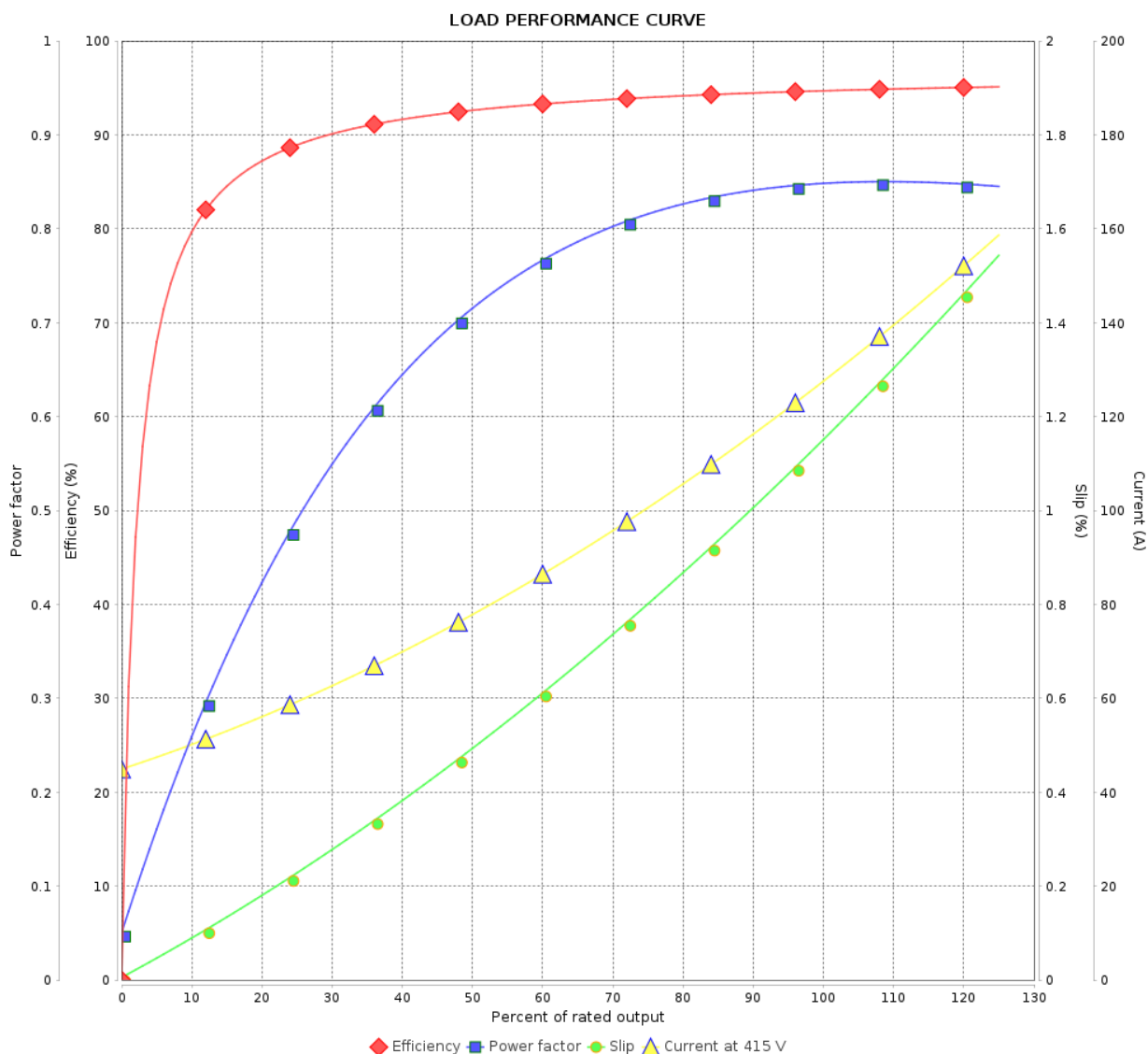
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W40 NEMA Premium Efficiency
Three-Phase

Product code : 14865595



Performance : 415 V 50 Hz 2P IE3

Rated current : 130 A
LRC : 8.6
Rated torque : 24 kgfm
Locked rotor torque : 270 %
Breakdown torque : 340 %
Rated speed : 2965 rpm

Moment of inertia (J) : 0.3708 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.00
Temperature rise : 80 K
Design : B

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