

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Super Premium Efficiency Three-Phase Product code : 11715187

Frame	: L182/4T	Cooling method	: IC411 - TEFC
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	: 51.3 kg
Protection degree	: IP55	Moment of inertia (J)	: 0.0206 kgm ²
Design	: A		

Output [HP]	5	5	5	5
Poles	4	4	4	4
Frequency [Hz]	60	50	50	50
Rated voltage [V]	230/460	380	400	415
Rated current [A]	12.9/6.46	7.66	7.46	7.22
L. R. Amperes [A]	103/51.7	49.0	53.0	54.9
LRC [A]	8.0x(Code K)	6.4x(Code H)	7.1x(Code J)	7.6x(Code J)
No load current [A]	7.26/3.63	3.52	3.63	3.85
Rated speed [RPM]	1755	1445	1450	1455
Slip [%]	2.50	3.67	3.33	3.00
Rated torque [kgfm]	2.07	2.51	2.50	2.49
Locked rotor torque [%]	260	210	240	270
Breakdown torque [%]	310	240	270	300
Service factor	1.25	1.25	1.15	1.15
Temperature rise	80 K	80 K	80 K	80 K
Locked rotor time	36s (cold) 20s (hot)	27s (cold) 15s (hot)	27s (cold) 15s (hot)	27s (cold) 15s (hot)
Noise level ²	56.0 dB(A)	56.0 dB(A)	56.0 dB(A)	56.0 dB(A)
Efficiency (%)	25%			
	50%	88.5	88.5	89.5
	75%	90.2	89.5	90.2
	100%	91.0	89.5	90.2
Power Factor	25%			
	50%	0.61	0.68	0.61
	75%	0.73	0.77	0.72
	100%	0.79	0.82	0.79

Losses at normative operating points (speed;torque), in percentage of rated output power

Losses (%)	P1 (0,9;1,0)	9.4	11.2	11.2	10.4
	P2 (0,5;1,0)	7.9	9.4	9.4	8.7
	P3 (0,25;1,0)	7.7	9.2	9.2	8.5
	P4 (0,9;0,5)	5.0	6.0	6.0	5.5
	P5 (0,5;0,5)	3.6	4.2	4.2	3.9
	P6 (0,5;0,25)	2.6	3.0	3.0	2.8
	P7 (0,25;0,25)	1.9	2.3	2.3	2.1

	<u>Drive end</u>	<u>Non drive end</u>	Foundation loads	
Bearing type	: 6207 ZZ	6206 ZZ	Max. traction	: 131 kgf
Sealing	: V'Ring	V'Ring	Max. compression	: 182 kgf
Lubrication interval	: -	-		
Lubricant amount	: -	-		
Lubricant type	: Mobil Polyrex EM			

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.

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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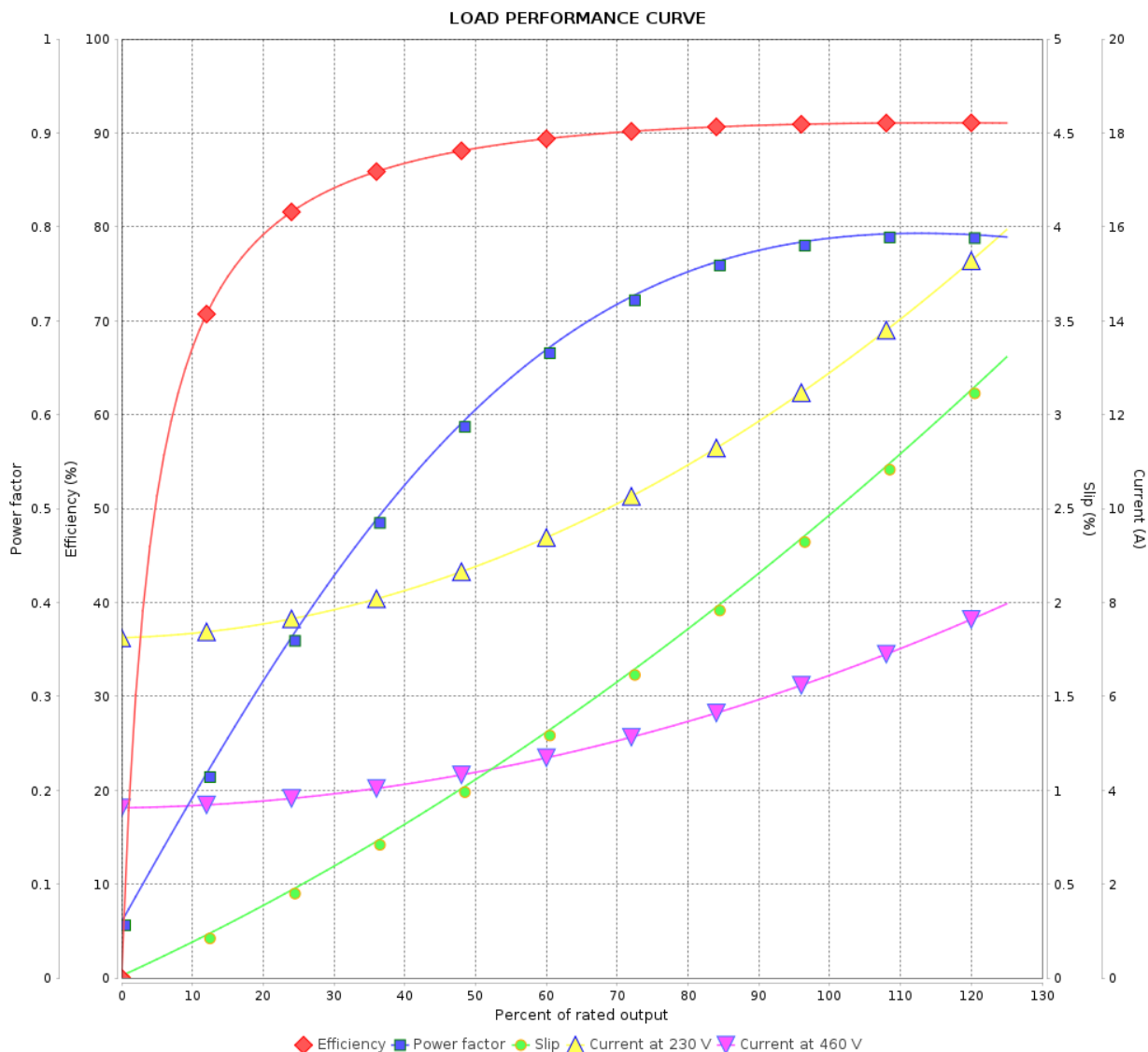
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Super Premium Efficiency
Three-Phase

Product code : 11715187



Performance : 230/460 V 60 Hz 4P

Rated current : 12.9/6.46 A
LRC : 8.0
Rated torque : 2.07 kgfm
Locked rotor torque : 260 %
Breakdown torque : 310 %
Rated speed : 1755 rpm

Moment of inertia (J) : 0.0206 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.25
Temperature rise : 80 K
Design : A

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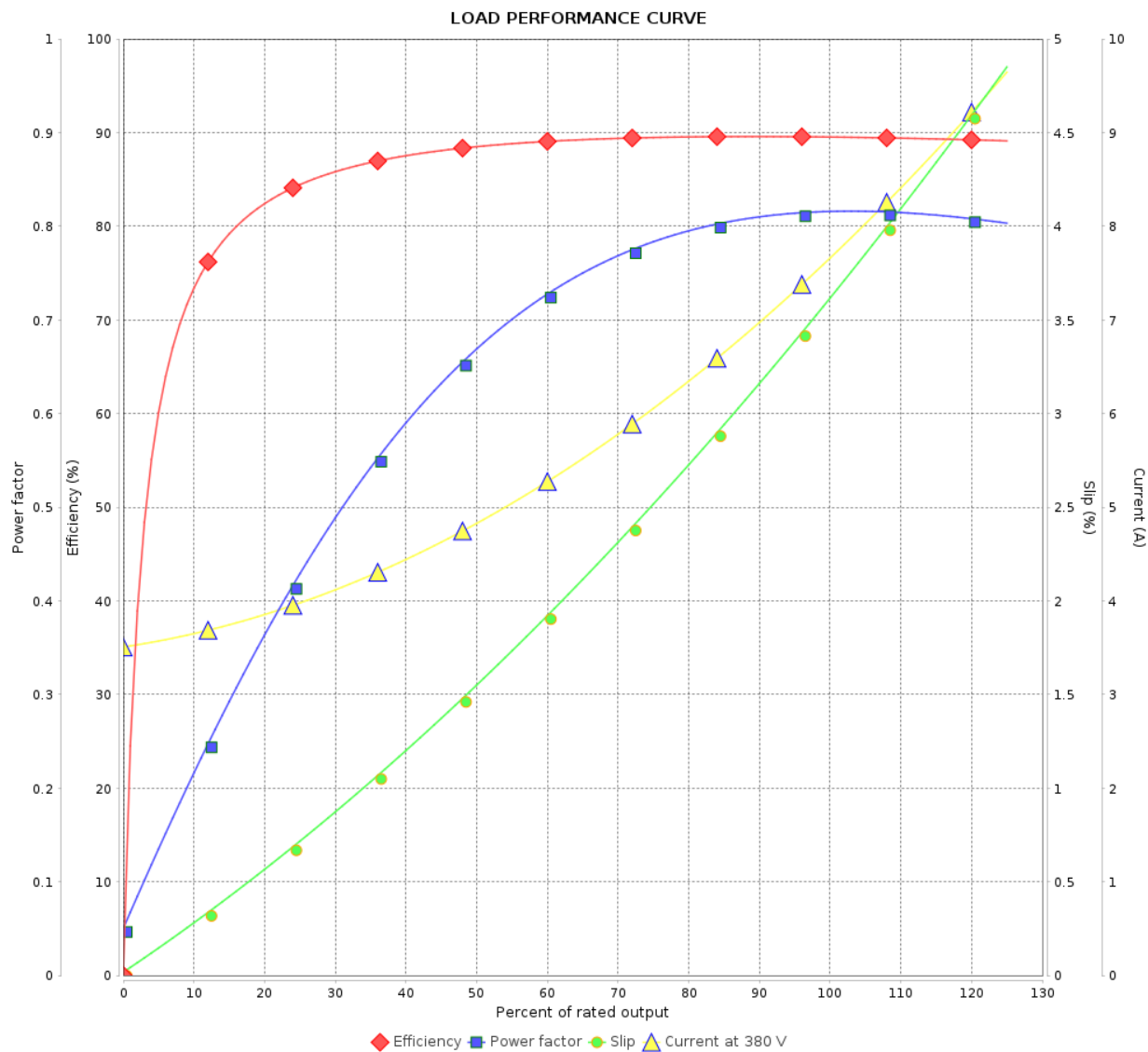
Three Phase Induction Motor - Squirrel Cage



Customer :

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Three-Phase

Product code : 11715187



Performance : 380 V 50 Hz 4P IE3

Rated current : 7.66 A
LRC : 6.4
Rated torque : 2.51 kgfm
Locked rotor torque : 210 %
Breakdown torque : 240 %
Rated speed : 1445 rpm

Moment of inertia (J) : 0.0206 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.25
Temperature rise : 80 K
Design : A

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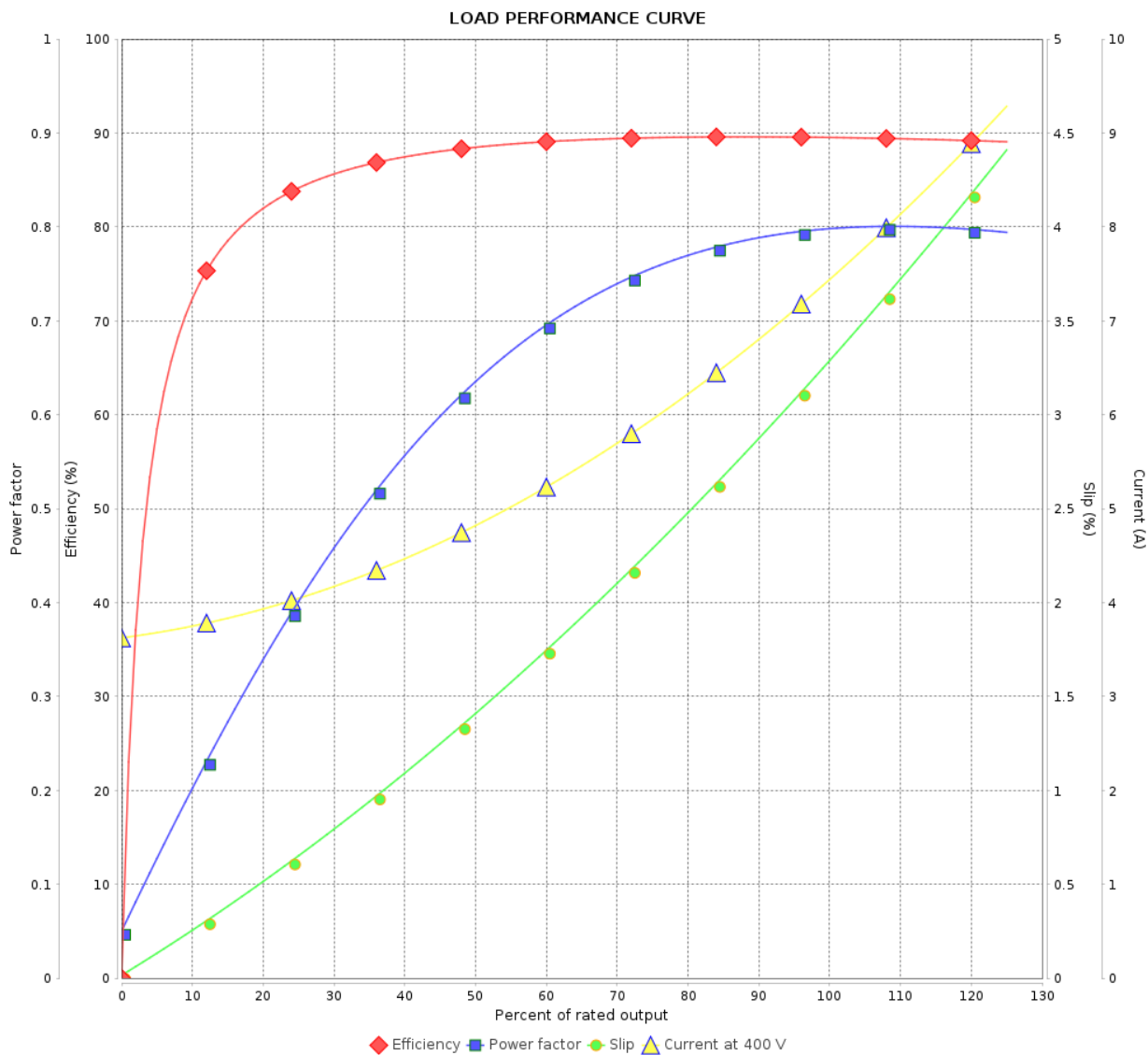
Three Phase Induction Motor - Squirrel Cage



Customer :

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Three-Phase

Product code : 11715187



Performance : 400 V 50 Hz 4P IE3

Rated current : 7.46 A
LRC : 7.1
Rated torque : 2.50 kgfm
Locked rotor torque : 240 %
Breakdown torque : 270 %
Rated speed : 1450 rpm

Moment of inertia (J) : 0.0206 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.15
Temperature rise : 80 K
Design : A

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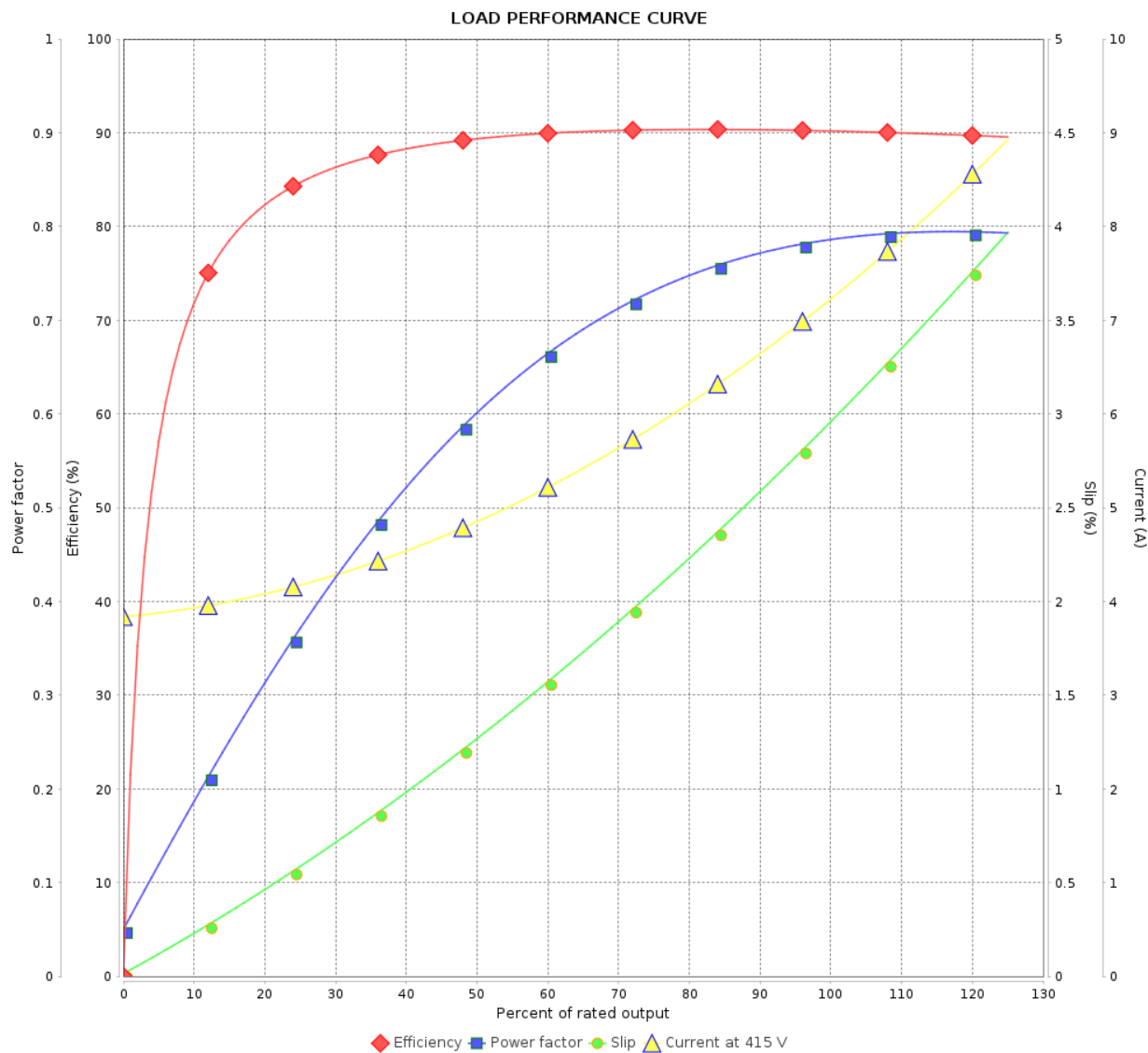
Three Phase Induction Motor - Squirrel Cage



Customer :

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Three-Phase

Product code : 11715187



Performance : 415 V 50 Hz 4P IE3

Rated current : 7.22 A
LRC : 7.6
Rated torque : 2.49 kgfm
Locked rotor torque : 270 %
Breakdown torque : 300 %
Rated speed : 1455 rpm

Moment of inertia (J) : 0.0206 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.15
Temperature rise : 80 K
Design : A

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