

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :					
Product line	: W22 Close Coupled Pump JM NEMA Premium Efficiency Three-Phase	Product code :	11569536		
Frame	: 182JM	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 ²	: 40.3 kg		
Protection degree	: IP55	Moment of inertia (J)	: 0.0143 kgm ²		
Design	: B				
Output [HP]	3	3	3	3	
Poles	4	4	4	4	
Frequency [Hz]	60	50	50	50	
Rated voltage [V]	230/460	380	400	415	
Rated current [A]	7.82/3.91	4.60	4.48	4.43	
L. R. Amperes [A]	63.3/31.7	29.0	31.4	33.2	
LRC [A]	8.1x(Code K)	6.3x(Code H)	7.0x(Code J)	7.5x(Code K)	
No load current [A]	4.00/2.00	2.00	2.15	2.25	
Rated speed [RPM]	1760	1445	1450	1455	
Slip [%]	2.22	3.67	3.33	3.00	
Rated torque [kgfm]	1.24	1.51	1.50	1.50	
Locked rotor torque [%]	229	180	210	240	
Breakdown torque [%]	340	260	290	320	
Service factor	1.25	1.25	1.25	1.25	
Temperature rise	80 K	80 K	80 K	80 K	
Locked rotor time	41s (cold) 23s (hot)	32s (cold) 18s (hot)	32s (cold) 18s (hot)	32s (cold) 18s (hot)	
Noise level ²	56.0 dB(A)	56.0 dB(A)	56.0 dB(A)	56.0 dB(A)	
Efficiency (%)	25%				
	50%	87.5	87.5	87.5	
	75%	88.5	87.5	87.5	
	100%	89.5	87.5	87.5	
Power Factor	25%				
	50%	0.61	0.68	0.64	
	75%	0.73	0.79	0.76	
	100%	0.79	0.83	0.81	
Losses at normative operating points (speed;torque), in percentage of rated output power					
Losses (%)	P1 (0,9;1,0)	11.0	11.0	11.0	11.0
	P2 (0,5;1,0)	8.6	8.6	8.6	8.6
	P3 (0,25;1,0)	8.3	8.3	8.3	8.3
	P4 (0,9;0,5)	6.1	6.1	6.1	6.1
	P5 (0,5;0,5)	3.9	3.9	3.9	3.9
	P6 (0,5;0,25)	2.8	2.8	2.8	2.8
	P7 (0,25;0,25)	2.0	2.0	2.0	2.0
Bearing type	: Drive end 6307 ZZ Non drive end 6206 ZZ	Foundation loads			
Sealing	: V'Ring V'Ring	Max. traction	: 80 kgf		
Lubrication interval	: - -	Max. compression	: 120 kgf		
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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Notes
USABLE @208V 8.65A SF 1.15 SFA 9.95A

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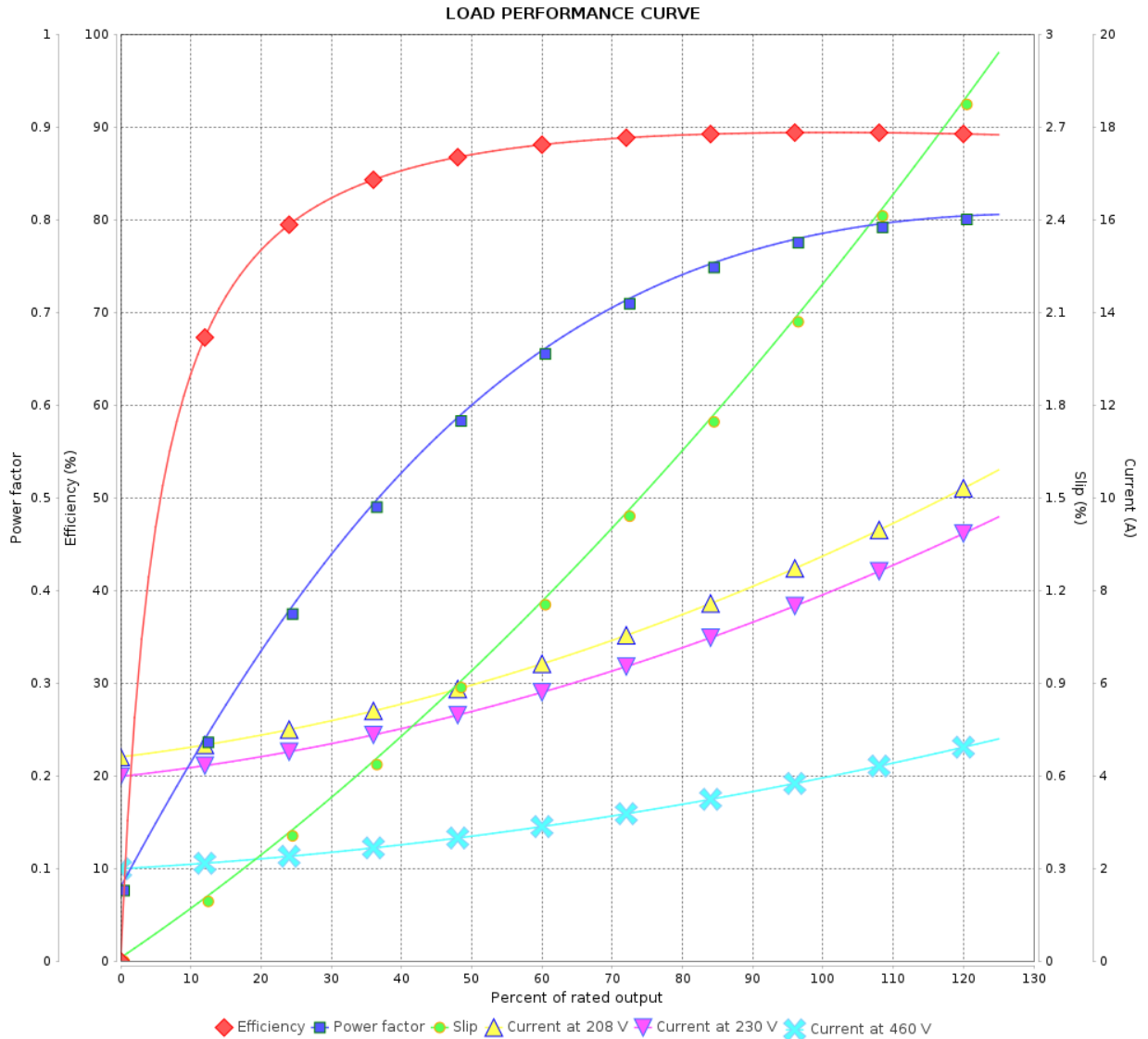
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Customer :

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Premium Efficiency Three-Phase

Product code : 11569536



Performance : 230/460 V 60 Hz 4P

Rated current : 7.82/3.91 A
LRC : 8.1
Rated torque : 1.24 kgfm
Locked rotor torque : 229 %
Breakdown torque : 340 %
Rated speed : 1760 rpm

Moment of inertia (J) : 0.0143 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

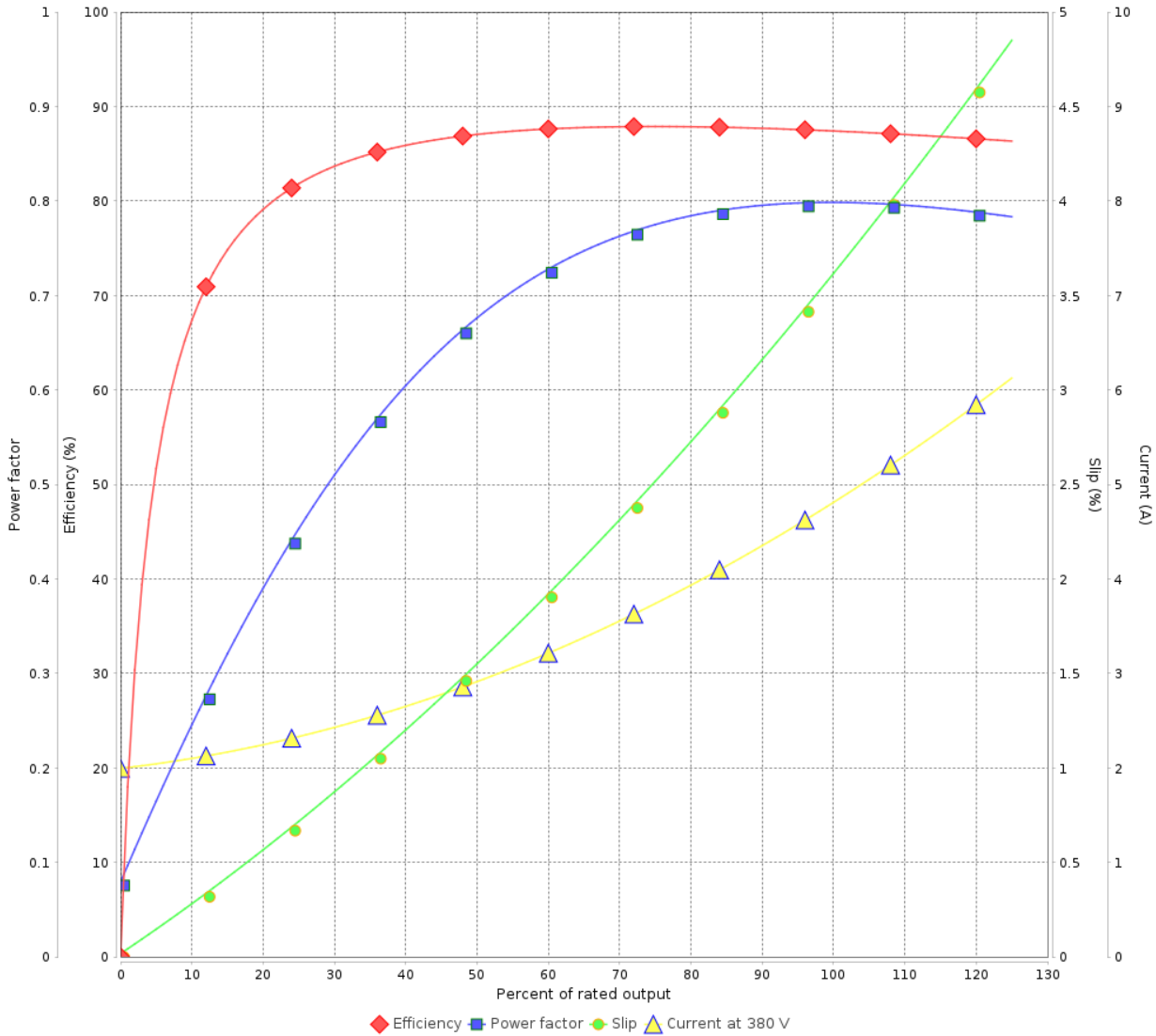


Customer :

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Performance : 380 V 50 Hz 4P IE3

Rated current : 4.60 A
LRC : 6.3
Rated torque : 1.51 kgfm
Locked rotor torque : 180 %
Breakdown torque : 260 %
Rated speed : 1445 rpm

Moment of inertia (J) : 0.0143 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.25
Temperature rise : 80 K
Design : B

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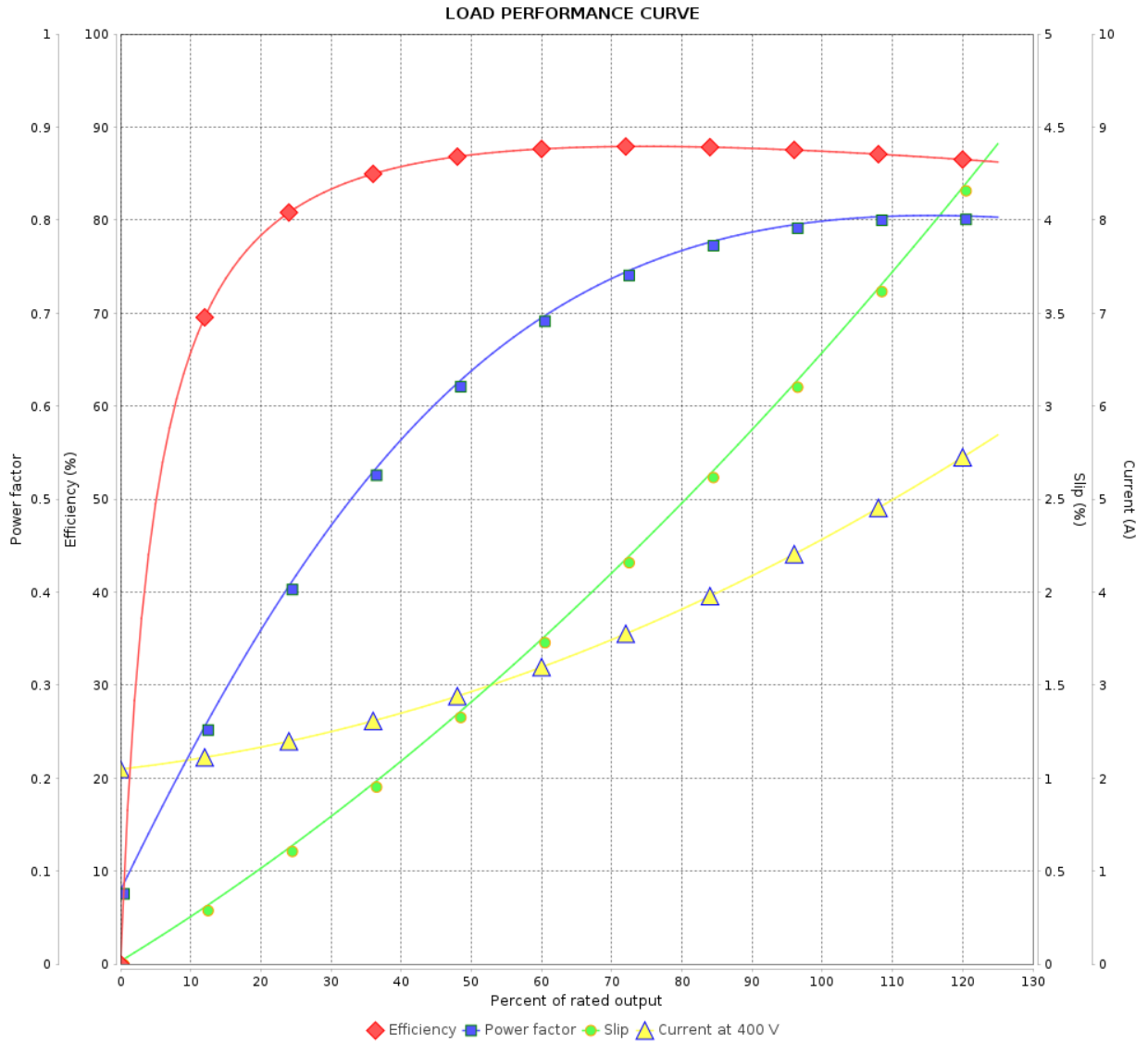
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Customer :

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Performance : 400 V 50 Hz 4P IE3

Rated current : 4.48 A
LRC : 7.0
Rated torque : 1.50 kgfm
Locked rotor torque : 210 %
Breakdown torque : 290 %
Rated speed : 1450 rpm

Moment of inertia (J) : 0.0143 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.25
Temperature rise : 80 K
Design : B

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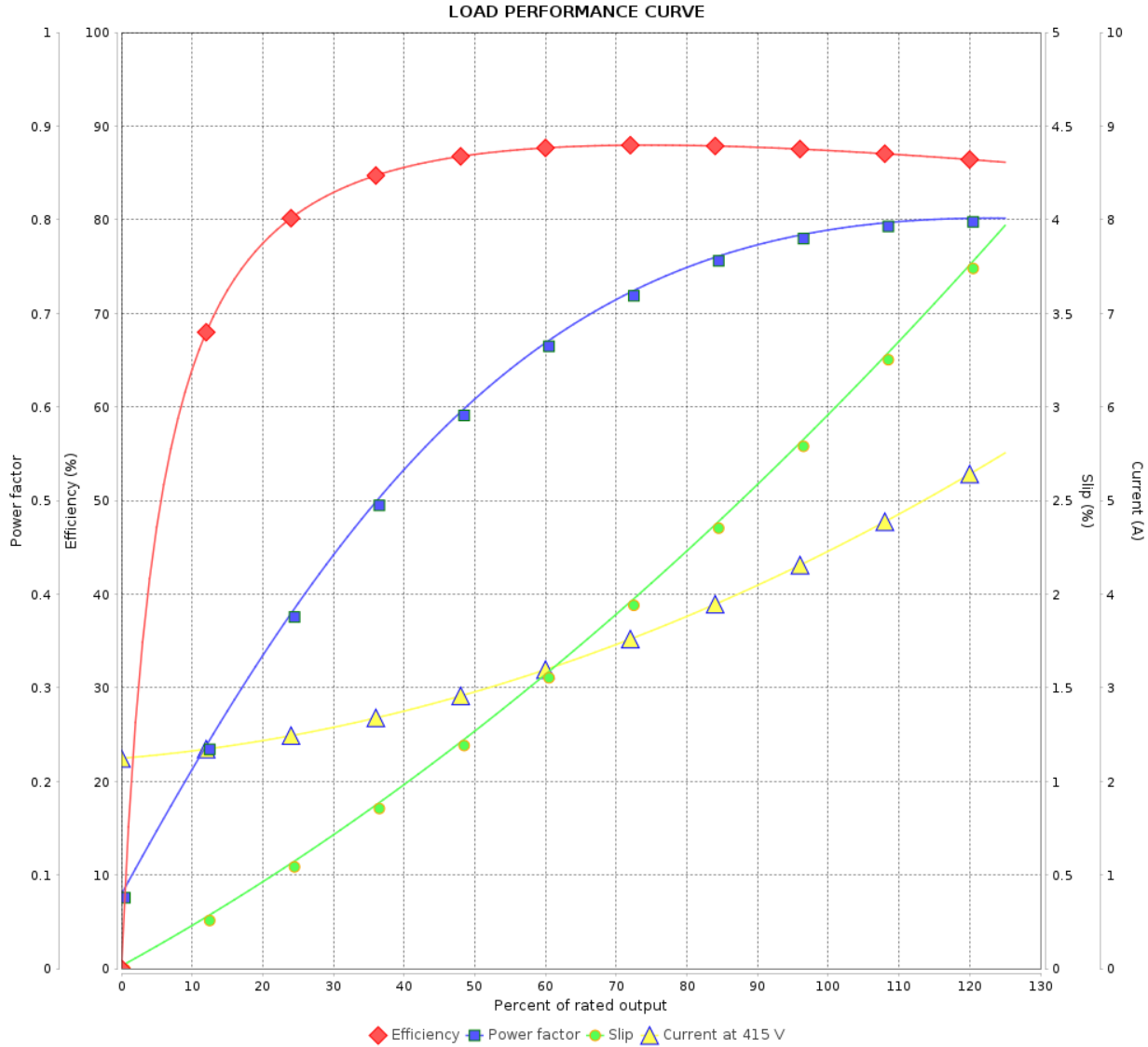
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Performance : 415 V 50 Hz 4P IE3

Rated current : 4.43 A
 LRC : 7.5
 Rated torque : 1.50 kgfm
 Locked rotor torque : 240 %
 Breakdown torque : 320 %
 Rated speed : 1455 rpm

Moment of inertia (J) : 0.0143 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.25
 Temperature rise : 80 K
 Design : B

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