

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :					
Product line : W22 Tru-Metric IE3 Three-Phase		Product code : 13127134			
Frame	: 225S/M	Cooling method	: IC411 - TEFC		
Insulation class	: F	Mounting	: B3L(E)		
Duty cycle	: 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	: 428 kg		
Protection degree	: IP55	Moment of inertia (J)	: 0.4415 kgm ²		
Design	: N				
Output [HP]	60	60	60		
Poles	2	2	2		
Frequency [Hz]	50	50	60		
Rated voltage [V]	380	415	230/460		
Rated current [A]	80.5	75.0	135/67.4		
L. R. Amperes [A]	564	600	1159/580		
LRC [A]	7.0	8.0	8.6		
No load current [A]	19.4	21.9	39.4/19.7		
Rated speed [RPM]	2960	2970	3570		
Slip [%]	1.33	1.00	0.83		
Rated torque [kgfm]	14.7	14.7	12.2		
Locked rotor torque [%]	210	260	260		
Breakdown torque [%]	260	300	320		
Service factor	1.25	1.25	1.25		
Temperature rise	80 K	80 K	80 K		
Locked rotor time	21s (cold) 12s (hot)	21s (cold) 12s (hot)	52s (cold) 29s (hot)		
Noise level ²	74.0 dB(A)	74.0 dB(A)	79.0 dB(A)		
Efficiency (%)	25%				
	50%	94.3	94.4	93.0	
	75%	94.4	94.7	94.1	
	100%	94.4	94.8	94.1	
Power Factor	25%				
	50%	0.79	0.75	0.80	
	75%	0.86	0.84	0.86	
	100%	0.90	0.88	0.89	
Losses at normative operating points (speed;torque), in percentage of rated output power					
Losses (%)	P1 (0,9;1,0)	5.4	5.0	5.8	
	P2 (0,5;1,0)	3.6	3.4	3.8	
	P3 (0,25;1,0)	3.1	2.8	3.2	
	P4 (0,9;0,5)	3.3	3.0	3.5	
	P5 (0,5;0,5)	1.6	1.5	1.7	
	P6 (0,5;0,25)	1.2	1.1	1.2	
	P7 (0,25;0,25)	0.6	0.5	0.6	
Bearing type	: Drive end : 6314 C3	Non drive end : 6314 C3	Foundation loads		
Sealing	: WSeal	WSeal	Max. traction : 224 kgf		
Lubrication interval	: 4000 h	4000 h	Max. compression : 652 kgf		
Lubricant amount	: 27 g	27 g			
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. (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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Customer : _____

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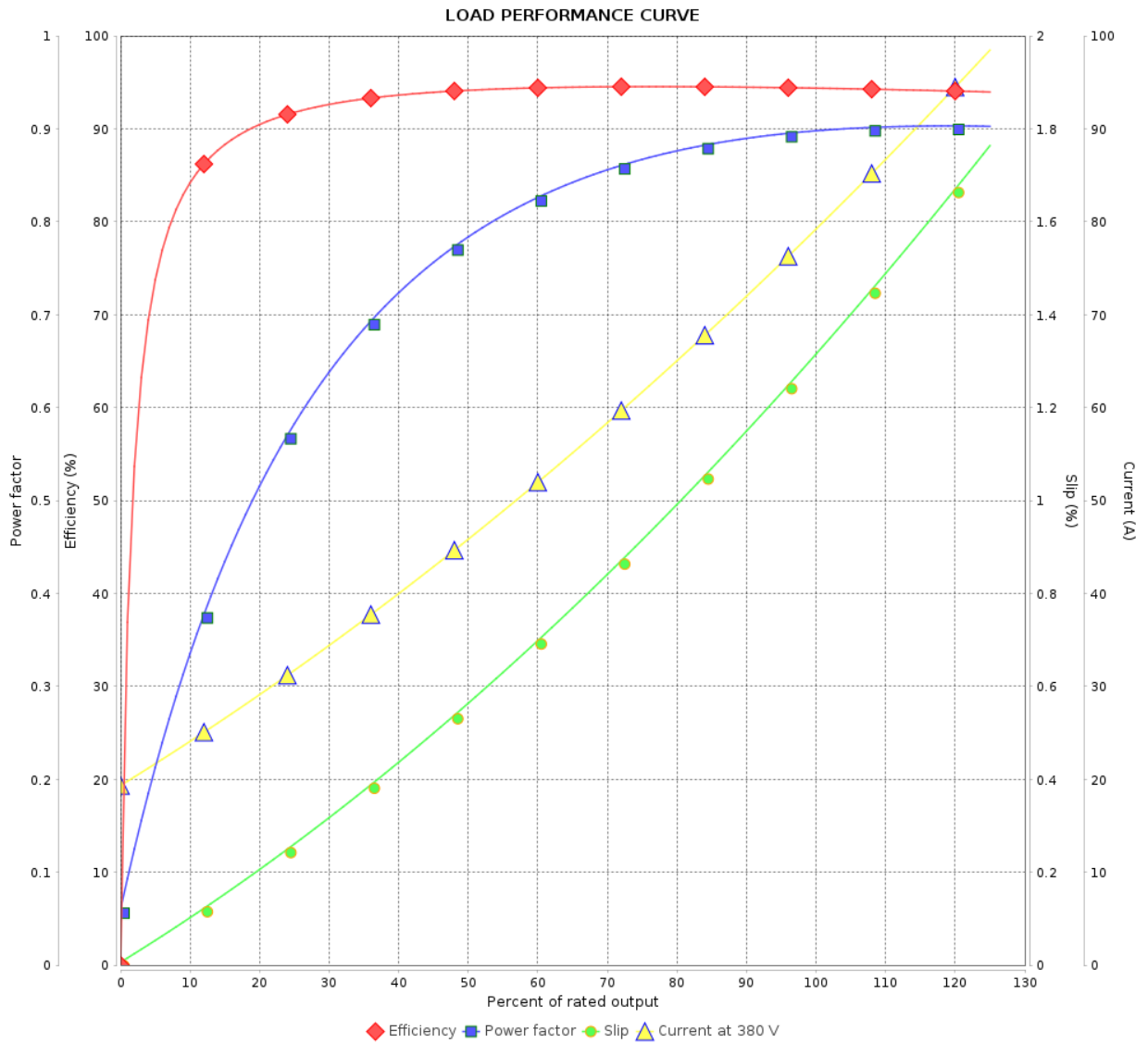


Customer :

Product line : W22 Tru-Metric IE3 Three-Phase

Product code :

13127134



Performance : 380 V 50 Hz 2P

Rated current : 80.5 A
 LRC : 7.0
 Rated torque : 14.7 kgfm
 Locked rotor torque : 210 %
 Breakdown torque : 260 %
 Rated speed : 2960 rpm

Moment of inertia (J) : 0.4415 kgm²
 Duty cycle : S1
 Insulation class : F
 Service factor : 1.25
 Temperature rise : 80 K
 Design : N

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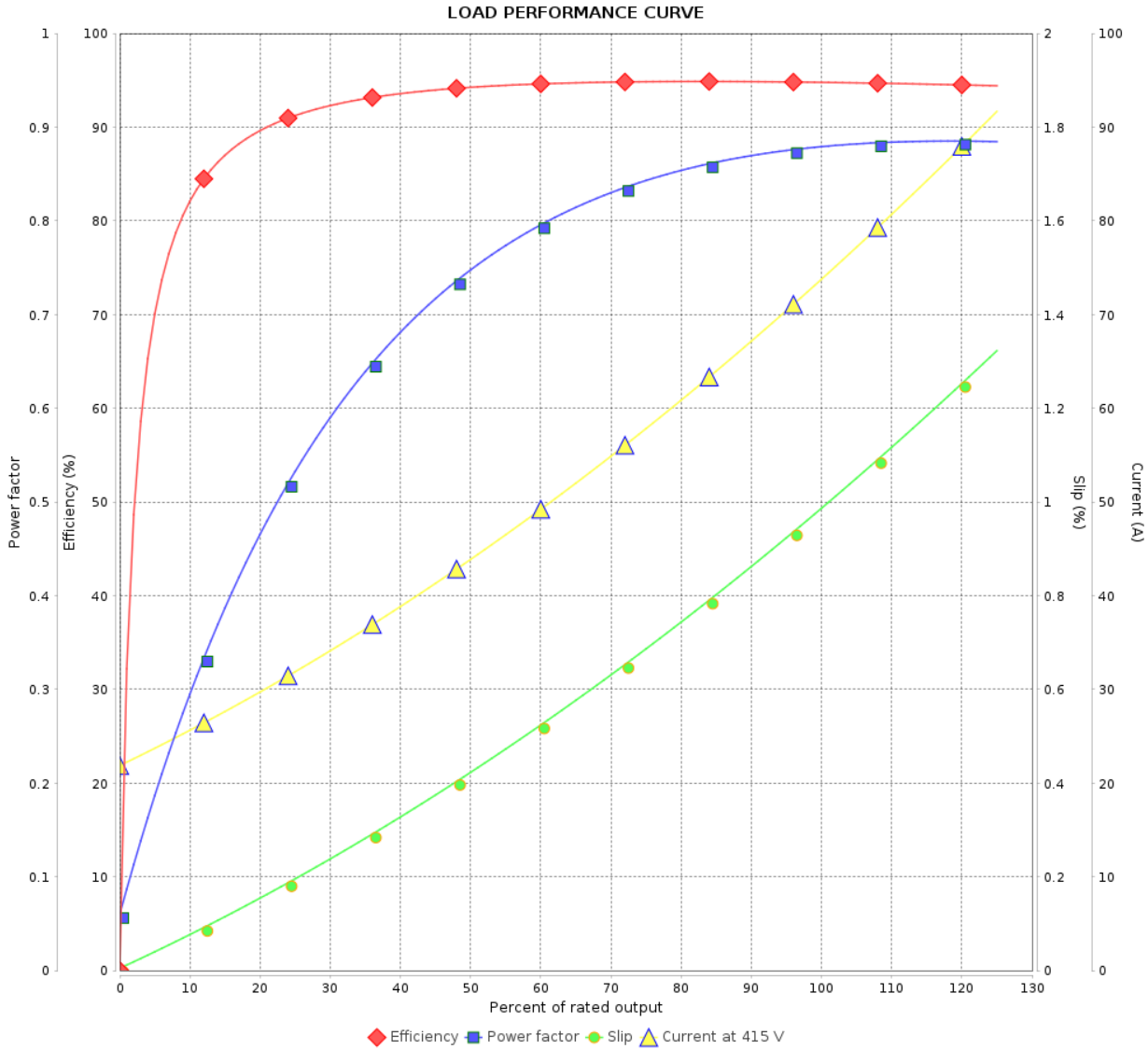
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Tru-Metric IE3 Three-Phase

Product code : 13127134



Performance : 415 V 50 Hz 2P

Rated current : 75.0 A
 LRC : 8.0
 Rated torque : 14.7 kgfm
 Locked rotor torque : 260 %
 Breakdown torque : 300 %
 Rated speed : 2970 rpm

Moment of inertia (J) : 0.4415 kgm²
 Duty cycle : S1
 Insulation class : F
 Service factor : 1.25
 Temperature rise : 80 K
 Design : N

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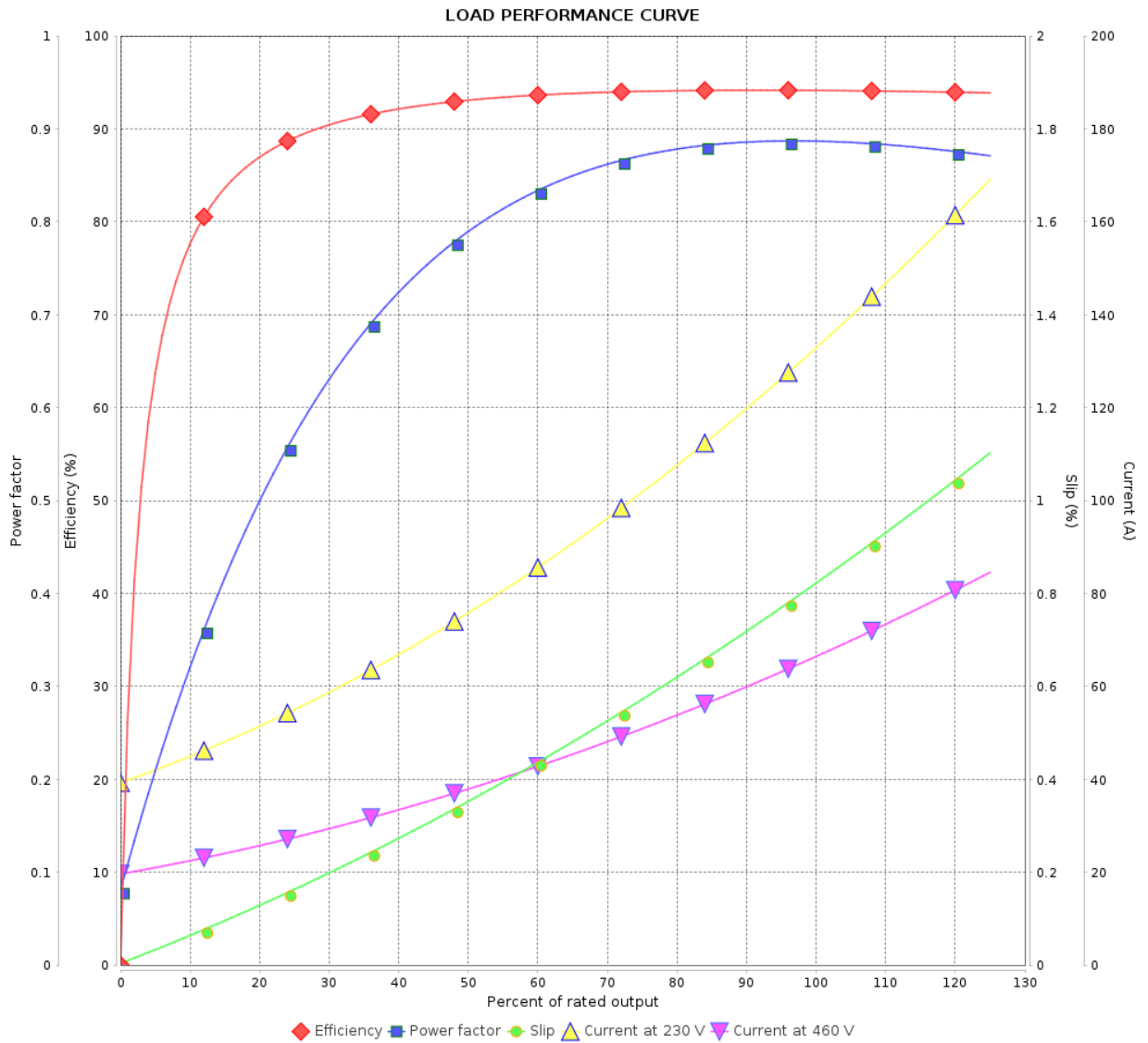
Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : W22 Tru-Metric IE3 Three-Phase

Product code : 13127134



Performance : 230/460 V 60 Hz 2P

Rated current : 135/67.4 A
 LRC : 8.6
 Rated torque : 12.2 kgfm
 Locked rotor torque : 260 %
 Breakdown torque : 320 %
 Rated speed : 3570 rpm

Moment of inertia (J) : 0.4415 kgm²
 Duty cycle : S1
 Insulation class : F
 Service factor : 1.25
 Temperature rise : 80 K
 Design : N

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