

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :				
Product line : W22 Tru-Metric IE3 Three-Phase	Product code : 12705357			
Frame : 132S Insulation class : F Duty cycle : S1 Ambient temperature : -20°C to +40°C Altitude : 1000 m.a.s.l. Protection degree : IP55 Design : N	Cooling method : IC411 - TEFC Mounting : B35L(E) Rotation ¹ : Both (CW and CCW) Starting method : Direct On Line Approx. weight ² : 75.1 kg Moment of inertia (J) : 0.0528 kgm ²			
Output [HP]	7.5	7.5	7.5	
Poles	4	4	4	
Frequency [Hz]	50	50	60	
Rated voltage [V]	380	415	230/460	
Rated current [A]	10.6	10.2	18.1/9.07	
L. R. Amperes [A]	102	97.9	189/94.3	
LRC [A]	9.6	9.6	10.4	
No load current [A]	4.40	5.10	8.86/4.43	
Rated speed [RPM]	1460	1470	1775	
Slip [%]	2.67	2.00	1.39	
Rated torque [kgfm]	3.73	3.72	3.08	
Locked rotor torque [%]	210	260	260	
Breakdown torque [%]	300	370	430	
Service factor	1.25	1.25	1.25	
Temperature rise	80 K	80 K	80 K	
Locked rotor time	27s (cold) 15s (hot)	27s (cold) 15s (hot)	32s (cold) 18s (hot)	
Noise level ²	56.0 dB(A)	56.0 dB(A)	58.0 dB(A)	
Efficiency (%)	25%			
	50%	90.4	89.6	
	75%	90.7	90.7	
	100%	90.3	90.8	
Power Factor	25%			
	50%	0.71	0.64	
	75%	0.82	0.76	
	100%	0.87	0.83	
Losses at normative operating points (speed;torque), in percentage of rated output power				
Losses (%)	P1 (0,9;1,0)	10.3	9.7	8.7
	P2 (0,5;1,0)	7.9	7.4	6.6
	P3 (0,25;1,0)	7.1	6.7	6.0
	P4 (0,9;0,5)	6.1	5.8	5.2
	P5 (0,5;0,5)	3.9	3.7	3.3
	P6 (0,5;0,25)	3.0	2.8	2.5
	P7 (0,25;0,25)	1.9	1.8	1.6
Bearing type	Drive end : 6308 ZZ	Non drive end : 6207 ZZ	Foundation loads	
Sealing	: V'Ring	V'Ring	Max. traction : 206 kgf	
Lubrication interval	: -	-	Max. compression : 281 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. (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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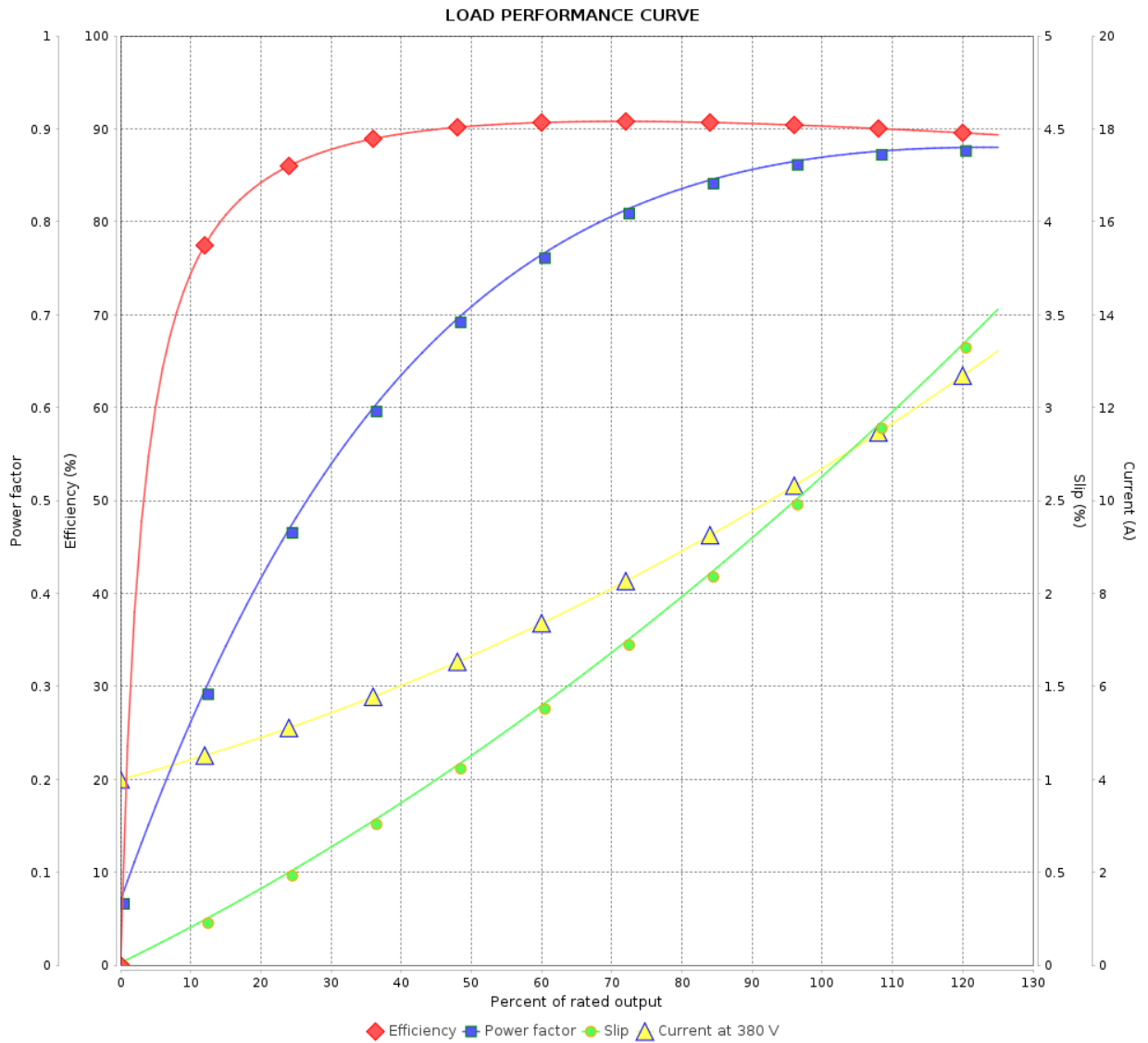


Customer : _____

Product line : W22 Tru-Metric IE3 Three-Phase

Product code :

12705357



Performance : 380 V 50 Hz 4P

Rated current : 10.6 A
 LRC : 9.6
 Rated torque : 3.73 kgfm
 Locked rotor torque : 210 %
 Breakdown torque : 300 %
 Rated speed : 1460 rpm

Moment of inertia (J) : 0.0528 kgm²
 Duty cycle : S1
 Insulation class : F
 Service factor : 1.25
 Temperature rise : 80 K
 Design : N

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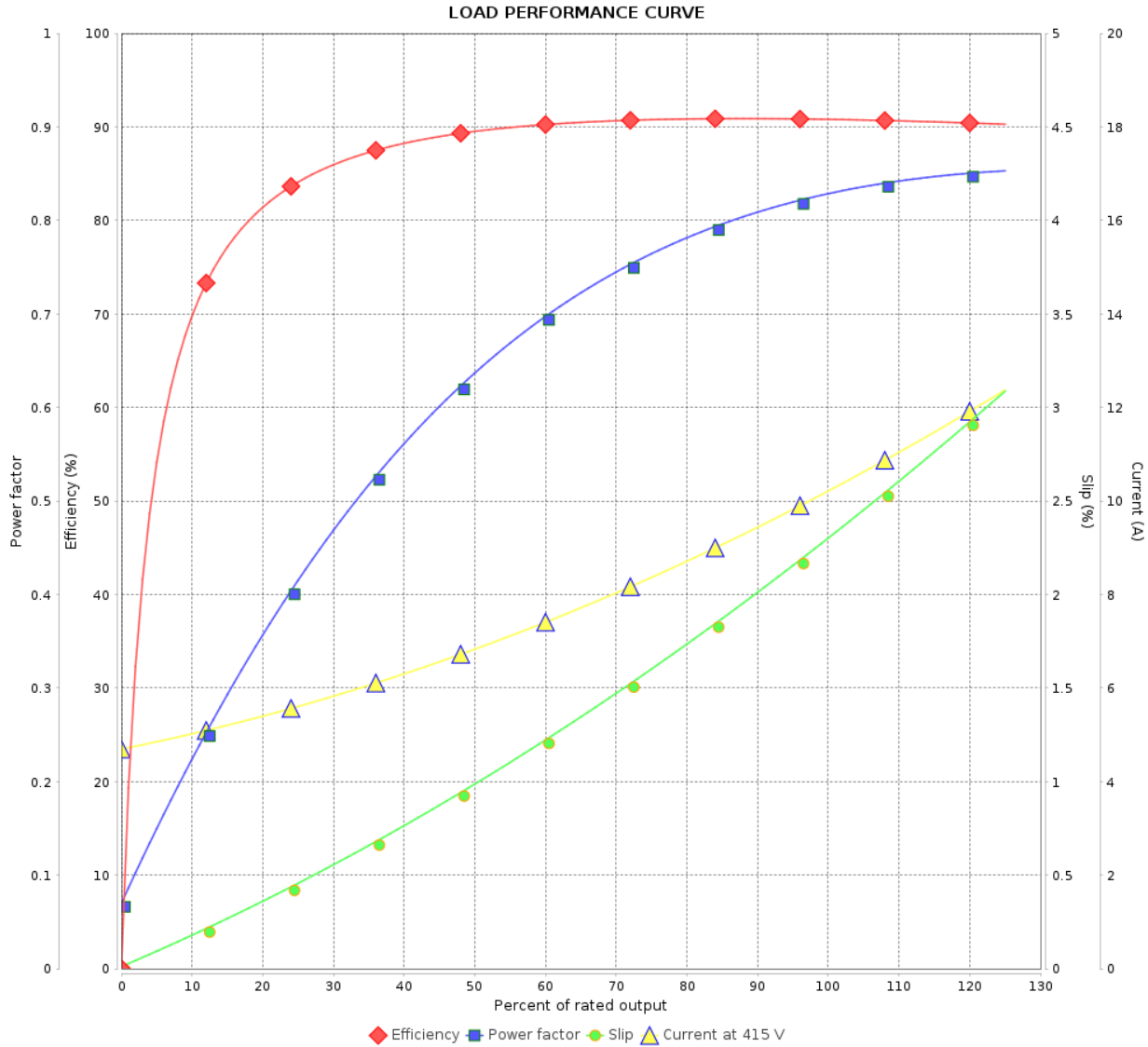
Three Phase Induction Motor - Squirrel Cage



Customer :

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Performance : 415 V 50 Hz 4P

Rated current : 10.2 A
 LRC : 9.6
 Rated torque : 3.72 kgfm
 Locked rotor torque : 260 %
 Breakdown torque : 370 %
 Rated speed : 1470 rpm

Moment of inertia (J) : 0.0528 kgm²
 Duty cycle : S1
 Insulation class : F
 Service factor : 1.25
 Temperature rise : 80 K
 Design : N

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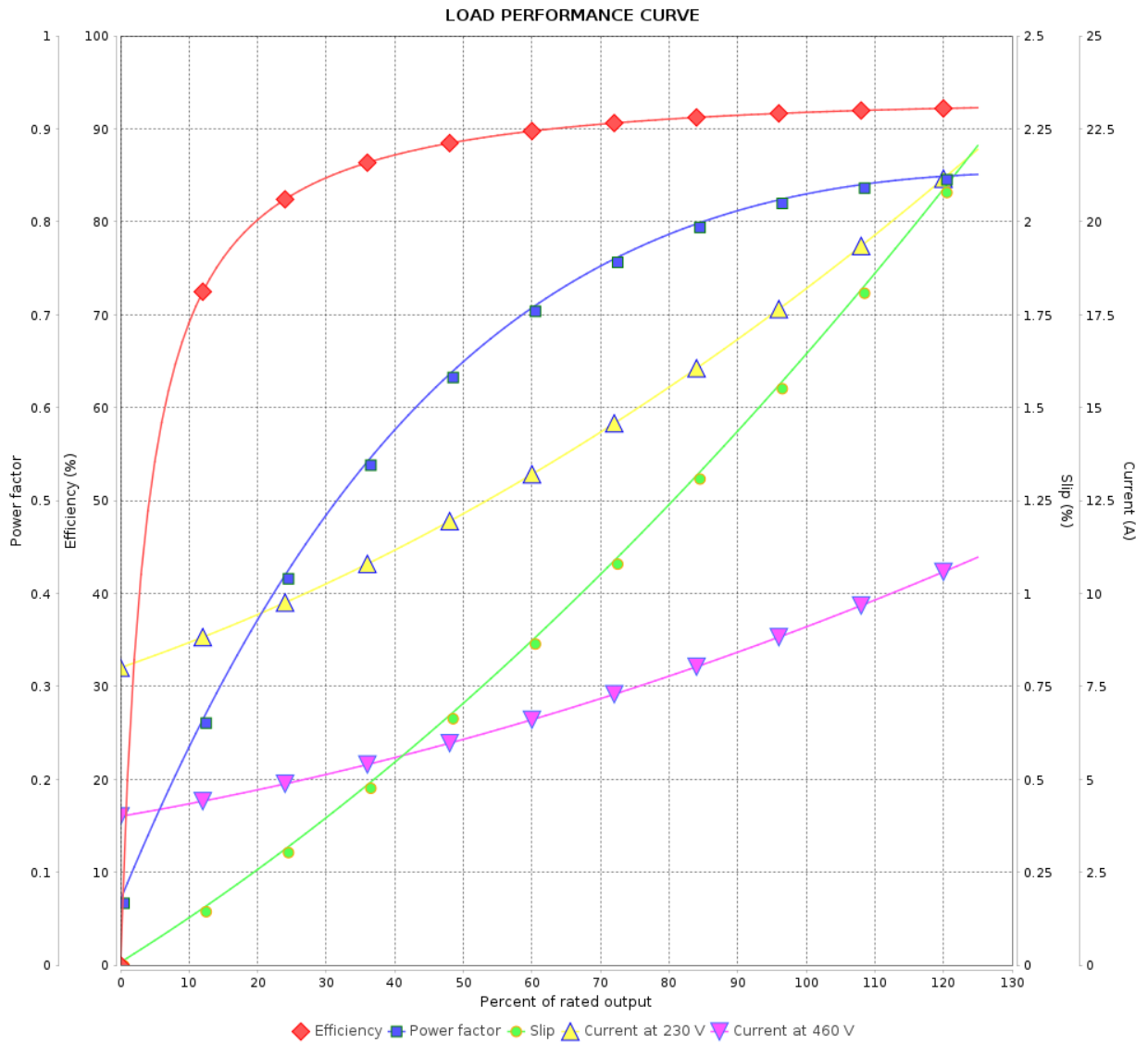


Customer : _____

Product line : W22 Tru-Metric IE3 Three-Phase

Product code :

12705357



Performance : 230/460 V 60 Hz 4P

Rated current : 18.1/9.07 A
 LRC : 10.4
 Rated torque : 3.08 kgfm
 Locked rotor torque : 260 %
 Breakdown torque : 430 %
 Rated speed : 1775 rpm

Moment of inertia (J) : 0.0528 kgm²
 Duty cycle : S1
 Insulation class : F
 Service factor : 1.25
 Temperature rise : 80 K
 Design : N

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