

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :					
Product line : W22 Tru-Metric IE3 Three-Phase		Product code : 13422164			
Frame	: L100L	Cooling method	: IC411 - TEFC		
Insulation class	: F	Mounting	: B3L(E)		
Duty cycle	: S1	Rotation <sup>1</sup>	: Both (CW and CCW)		
Ambient temperature	: -20°C to +40°C	Starting method	: Direct On Line		
Altitude	: 1000 m.a.s.l.	Approx. weight <sup>3</sup>	: 39.0 kg		
Protection degree	: IP55	Moment of inertia (J)	: 0.0176 kgm <sup>2</sup>		
Design	: N				
Output [HP]	2	2	2		
Poles	6	6	6		
Frequency [Hz]	50	50	60		
Rated voltage [V]	380	415	230/460		
Rated current [A]	3.63	3.56	6.26/3.13		
L. R. Amperes [A]	18.9	21.7	45.7/22.8		
LRC [A]	5.2	6.1	7.3		
No load current [A]	1.91	2.15	4.00/2.00		
Rated speed [RPM]	950	955	1165		
Slip [%]	5.00	4.50	2.92		
Rated torque [kgfm]	1.53	1.52	1.25		
Locked rotor torque [%]	200	260	300		
Breakdown torque [%]	250	310	300		
Service factor	1.25	1.25	1.25		
Temperature rise	80 K	80 K	80 K		
Locked rotor time	72s (cold) 40s (hot)	72s (cold) 40s (hot)	72s (cold) 40s (hot)		
Noise level <sup>2</sup>	44.0 dB(A)	44.0 dB(A)	49.0 dB(A)		
Efficiency (%)	25%				
	50%	82.0	82.0	85.5	
	75%	82.5	82.5	87.5	
	100%	82.5	82.5	88.5	
Power Factor	25%				
	50%	0.56	0.49	0.49	
	75%	0.69	0.63	0.62	
	100%	0.76	0.71	0.68	
Losses at normative operating points (speed;torque), in percentage of rated output power					
Losses (%)	P1 (0,9;1,0)	20.2	20.2	12.4	
	P2 (0,5;1,0)	16.7	16.7	10.2	
	P3 (0,25;1,0)	15.9	15.9	9.7	
	P4 (0,9;0,5)	12.2	12.2	7.5	
	P5 (0,5;0,5)	8.8	8.8	5.4	
	P6 (0,5;0,25)	7.0	7.0	4.3	
	P7 (0,25;0,25)	5.3	5.3	3.3	
Bearing type	: Drive end 6206 ZZ	Non drive end 6205 ZZ	Foundation loads		
Sealing	: V'Ring	V'Ring	Max. traction	: 73 kgf	
Lubrication interval	: -	-	Max. compression	: 112 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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Notes

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# LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

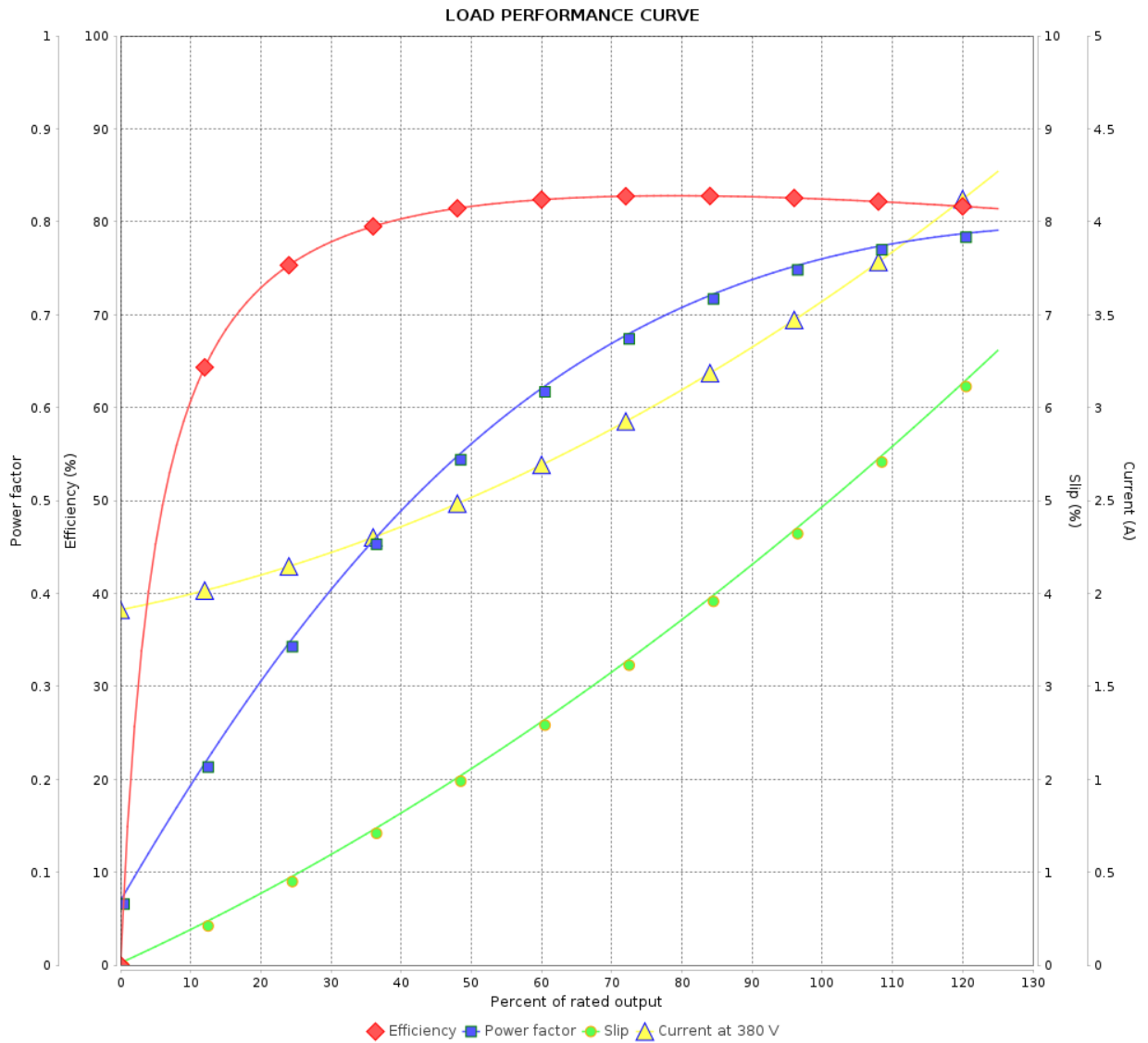


Customer :

Product line : W22 Tru-Metric IE3 Three-Phase

Product code :

13422164



Performance : 380 V 50 Hz 6P

Rated current : 3.63 A  
 LRC : 5.2  
 Rated torque : 1.53 kgfm  
 Locked rotor torque : 200 %  
 Breakdown torque : 250 %  
 Rated speed : 950 rpm

Moment of inertia (J) : 0.0176 kgm<sup>2</sup>  
 Duty cycle : S1  
 Insulation class : F  
 Service factor : 1.25  
 Temperature rise : 80 K  
 Design : N

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# LOAD PERFORMANCE CURVE

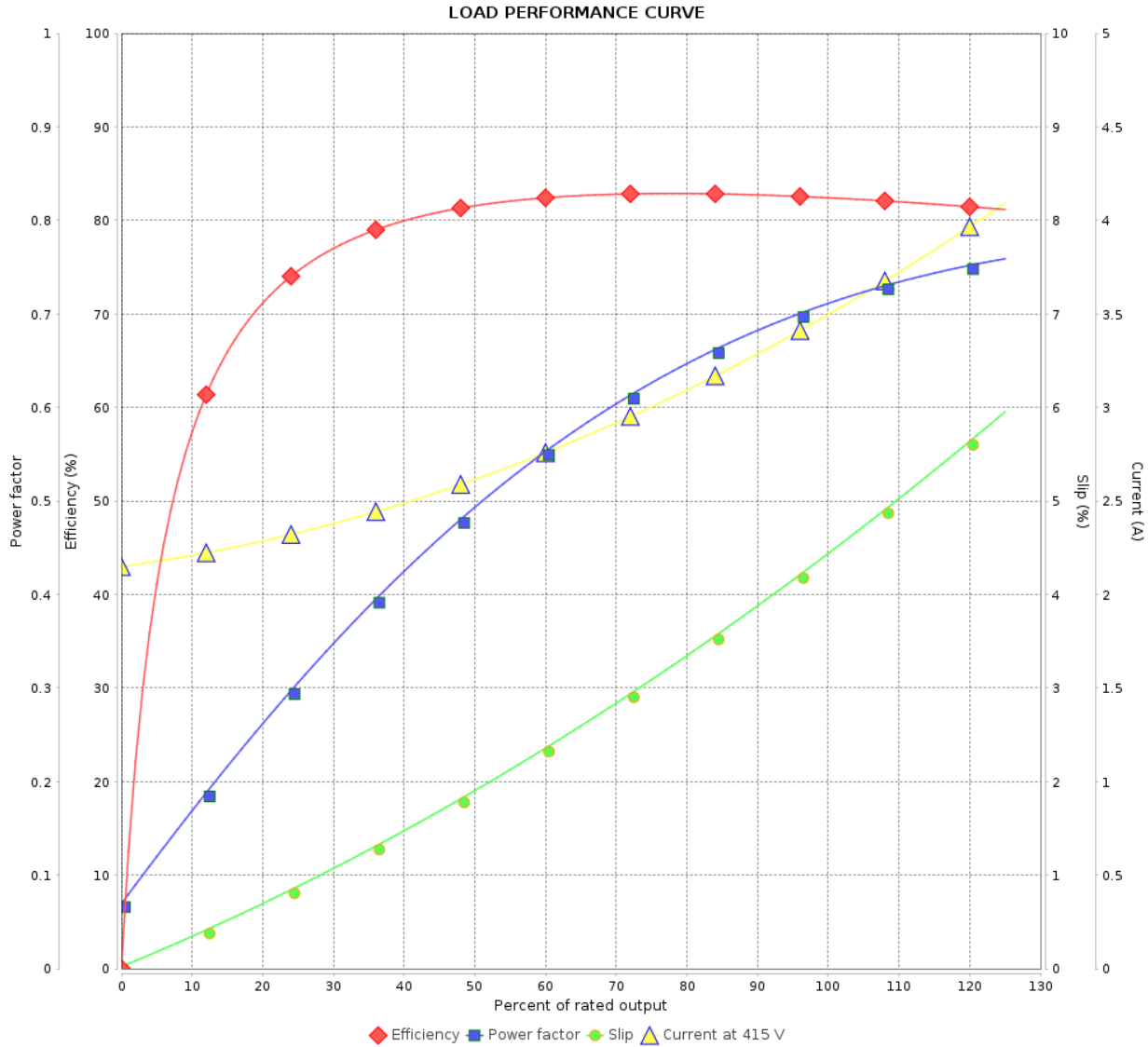
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Tru-Metric IE3 Three-Phase

Product code : 13422164



Performance : 415 V 50 Hz 6P

Rated current : 3.56 A  
 LRC : 6.1  
 Rated torque : 1.52 kgfm  
 Locked rotor torque : 260 %  
 Breakdown torque : 310 %  
 Rated speed : 955 rpm

Moment of inertia (J) : 0.0176 kgm<sup>2</sup>  
 Duty cycle : S1  
 Insulation class : F  
 Service factor : 1.25  
 Temperature rise : 80 K  
 Design : N

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# LOAD PERFORMANCE CURVE

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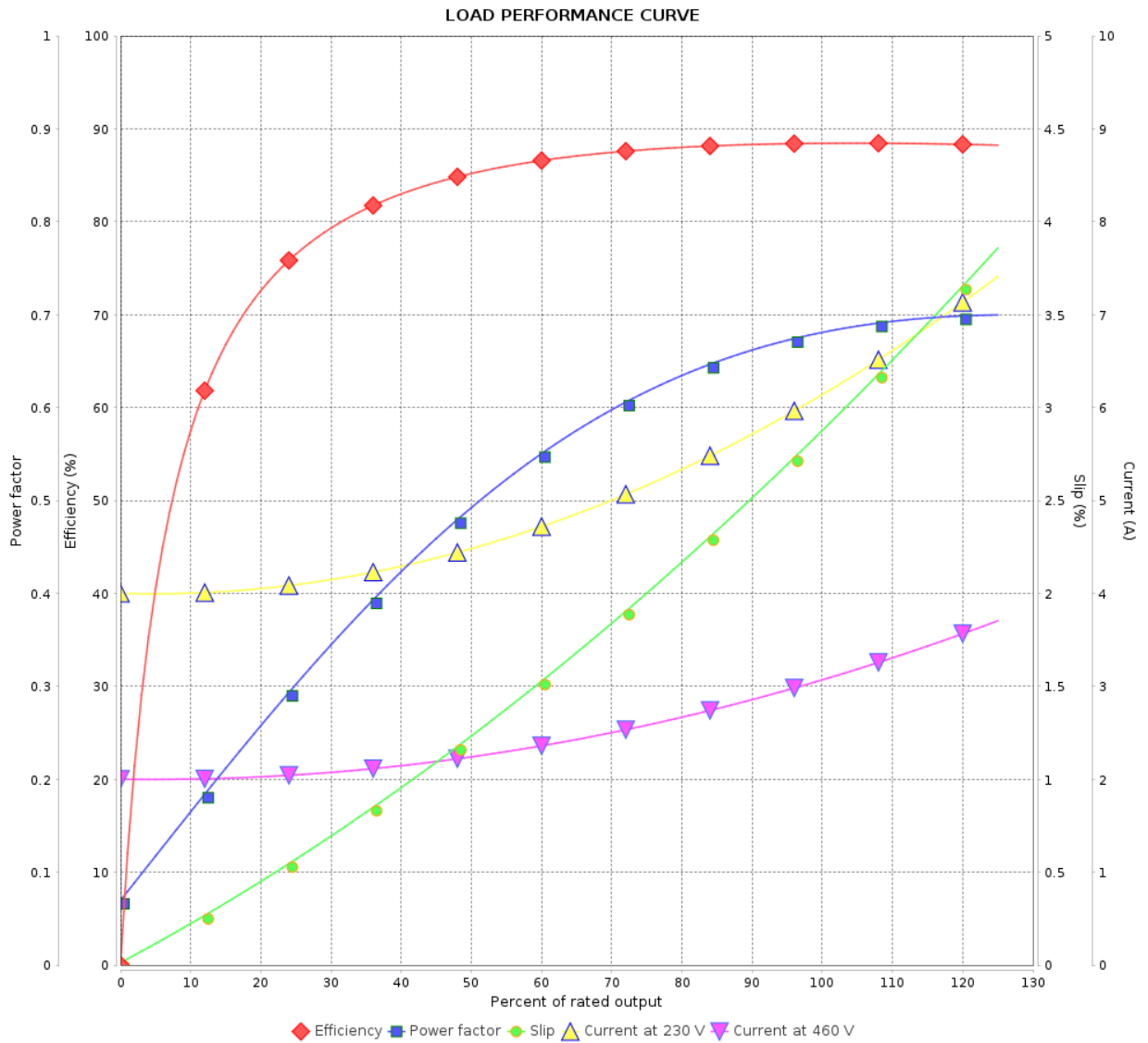


Customer : \_\_\_\_\_

Product line : W22 Tru-Metric IE3 Three-Phase

Product code :

13422164



Performance : 230/460 V 60 Hz 6P

Rated current : 6.26/3.13 A  
 LRC : 7.3  
 Rated torque : 1.25 kgfm  
 Locked rotor torque : 300 %  
 Breakdown torque : 300 %  
 Rated speed : 1165 rpm

Moment of inertia (J) : 0.0176 kgm<sup>2</sup>  
 Duty cycle : S1  
 Insulation class : F  
 Service factor : 1.25  
 Temperature rise : 80 K  
 Design : N

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