

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :		
Product line	: W22 Tru-Metric IE3 Three-Phase	
Product code	: 12645295	
Frame	: 132M	
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	: B3L(E)	
Rotation ¹	: Both (CW and CCW)	
Starting method	: Direct On Line	
Approx. weight ²	: 84.2 kg	
Moment of inertia (J)	: 0.0306 kgm ²	
Output [HP]	15	
Poles	2	
Frequency [Hz]	50	
Rated voltage [V]	380	
Rated current [A]	20.4	
L. R. Amperes [A]	163	
LRC [A]	8.0	
No load current [A]	5.80	
Rated speed [RPM]	2910	
Slip [%]	3.00	
Rated torque [kgfm]	3.74	
Locked rotor torque [%]	240	
Breakdown torque [%]	280	
Service factor	1.25	
Temperature rise	80 K	
Locked rotor time	19s (cold) 11s (hot)	
Noise level ²	63.0 dB(A)	
Efficiency (%)	25%	
	50%	90.9
	75%	91.0
	100%	91.0
Power Factor	25%	
	50%	0.80
	75%	0.87
	100%	0.90
Losses at normative operating points (speed;torque), in percentage of rated output power		
Losses (%)	P1 (0,9;1,0)	9.5
	P2 (0,5;1,0)	7.4
	P3 (0,25;1,0)	6.6
	P4 (0,9;0,5)	5.1
	P5 (0,5;0,5)	3.1
	P6 (0,5;0,25)	2.1
	P7 (0,25;0,25)	1.3
Bearing type	Drive end : 6308 ZZ Non drive end : 6207 ZZ	
Sealing	: V'Ring V'Ring	
Lubrication interval	: - -	
Lubricant amount	: - -	
Lubricant type	: Mobil Polyrex EM	
Foundation loads		
Max. traction : 168 kgf		
Max. compression : 253 kgf		
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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Three Phase Induction Motor - Squirrel Cage



Customer : _____

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Three Phase Induction Motor - Squirrel Cage

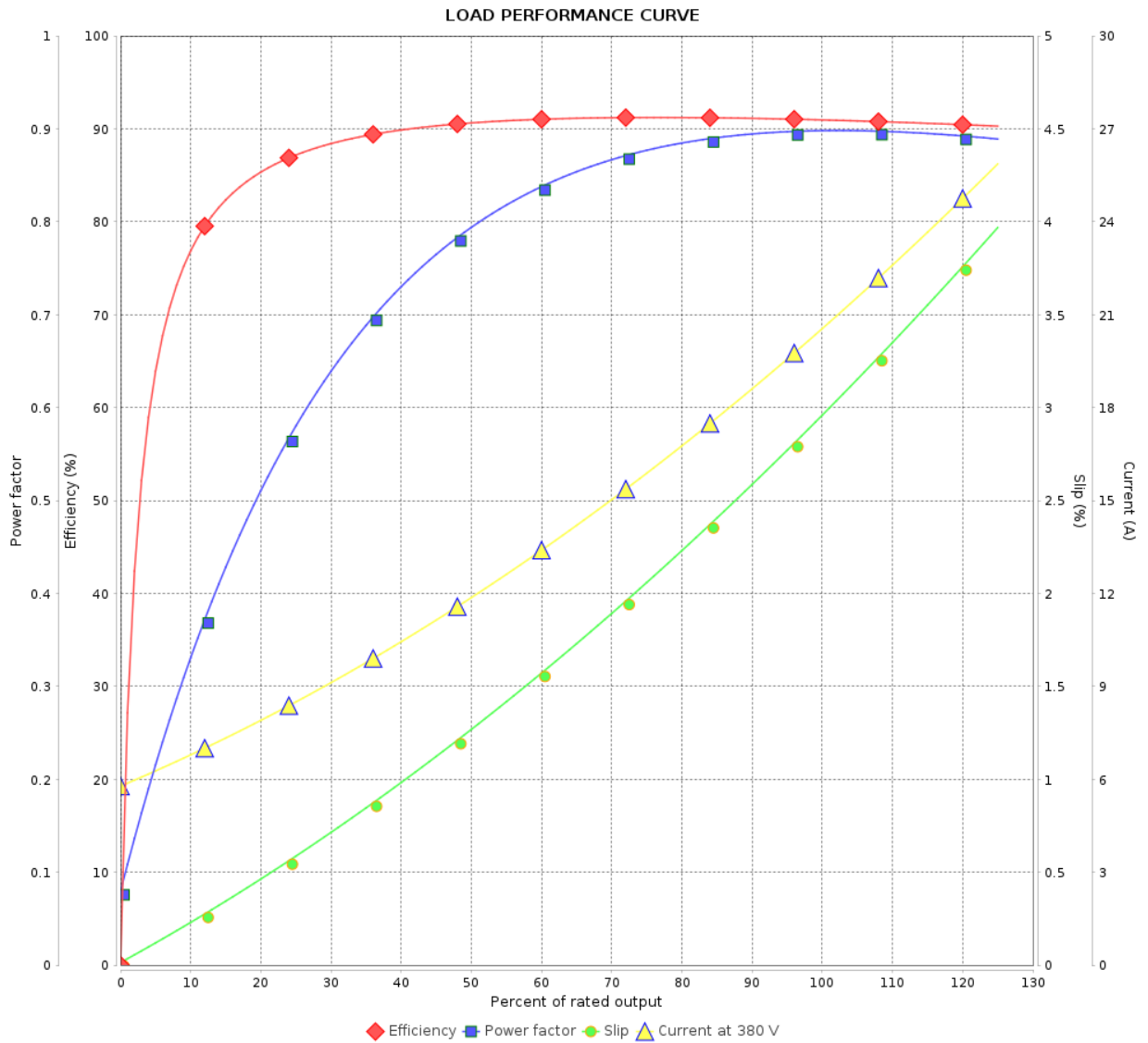


Customer : _____

Product line : W22 Tru-Metric IE3 Three-Phase

Product code :

12645295



Performance : 380 V 50 Hz 2P

Rated current : 20.4 A
 LRC : 8.0
 Rated torque : 3.74 kgfm
 Locked rotor torque : 240 %
 Breakdown torque : 280 %
 Rated speed : 2910 rpm

Moment of inertia (J) : 0.0306 kgm²
 Duty cycle : S1
 Insulation class : F
 Service factor : 1.25
 Temperature rise : 80 K
 Design : N

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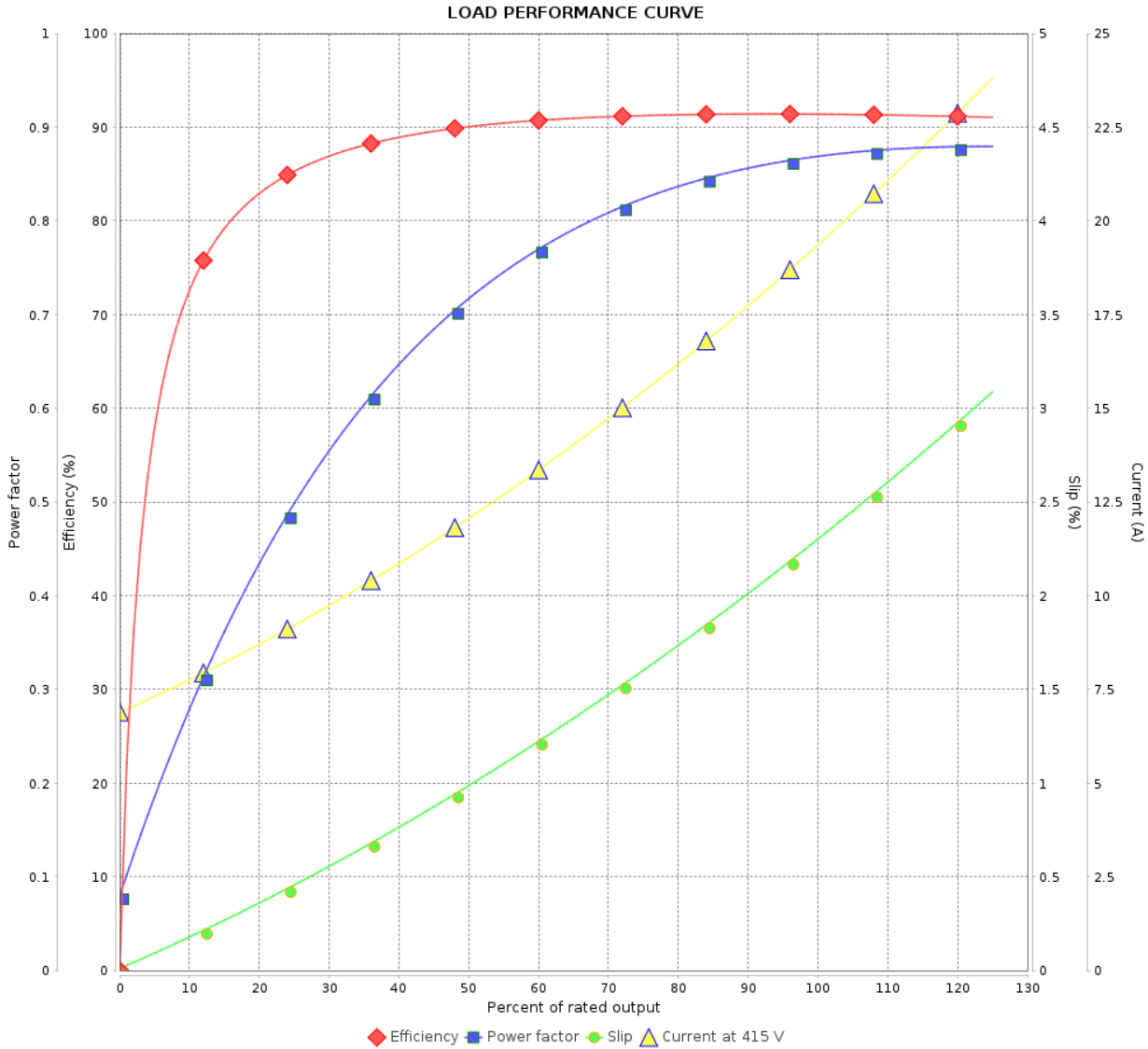
Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : W22 Tru-Metric IE3 Three-Phase

Product code : 12645295



Performance : 415 V 50 Hz 2P

Rated current : 19.2 A
 LRC : 8.4
 Rated torque : 3.72 kgfm
 Locked rotor torque : 300 %
 Breakdown torque : 340 %
 Rated speed : 2930 rpm

Moment of inertia (J) : 0.0306 kgm²
 Duty cycle : S1
 Insulation class : F
 Service factor : 1.25
 Temperature rise : 80 K
 Design : N

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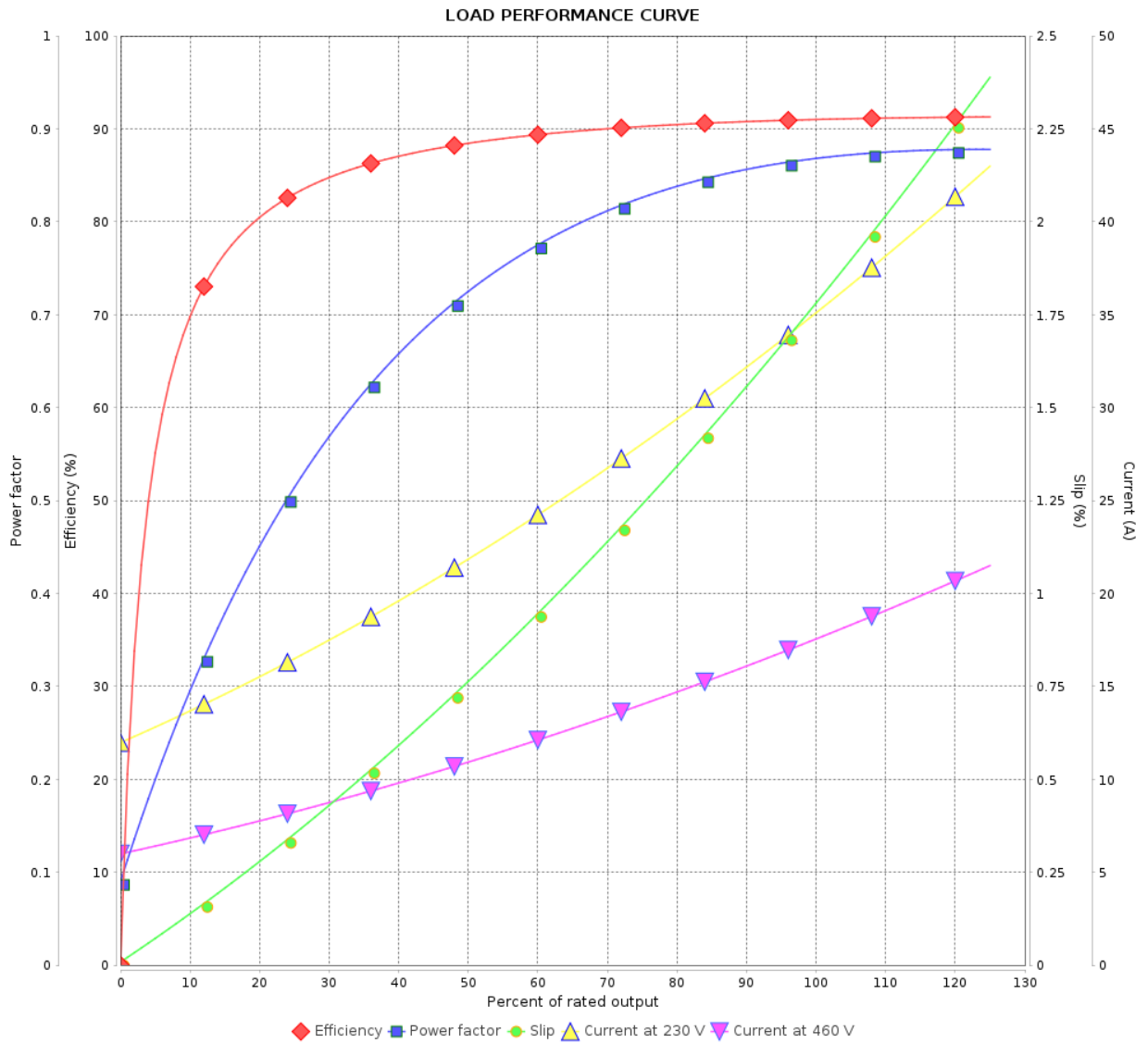
Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : W22 Tru-Metric IE3 Three-Phase

Product code : 12645295



Performance : 230/460 V 60 Hz 2P

Rated current : 34.8/17.4 A
 LRC : 9.2
 Rated torque : 3.08 kgfm
 Locked rotor torque : 310 %
 Breakdown torque : 370 %
 Rated speed : 3535 rpm

Moment of inertia (J) : 0.0306 kgm²
 Duty cycle : S1
 Insulation class : F
 Service factor : 1.25
 Temperature rise : 80 K
 Design : N

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