

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :					
Product line : W22 Tru-Metric IE3 Three-Phase		Product code : 15146480			
Frame	: 132S	Cooling method	: IC411 - TEFC		
Insulation class	: F	Mounting	: B34L(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 ²	: 70.9 kg		
Protection degree	: IP55	Moment of inertia (J)	: 0.0528 kgm ²		
Design	: N				
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	88.5	
	75%	90.7	90.7	91.0	
	100%	90.3	90.8	91.7	
Power Factor	25%				
	50%	0.71	0.64	0.65	
	75%	0.82	0.76	0.77	
	100%	0.87	0.83	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 : 208 kgf		
Lubrication interval	: -	-	Max. compression : 279 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.		
Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	14/01/2024			1 / 5	

DATA SHEET

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Customer : _____

Notes

Rev.	Changes Summary	Performed	Checked	Date
Performed by				
Checked by			Page	Revision
Date	14/01/2024		2 / 5	

LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

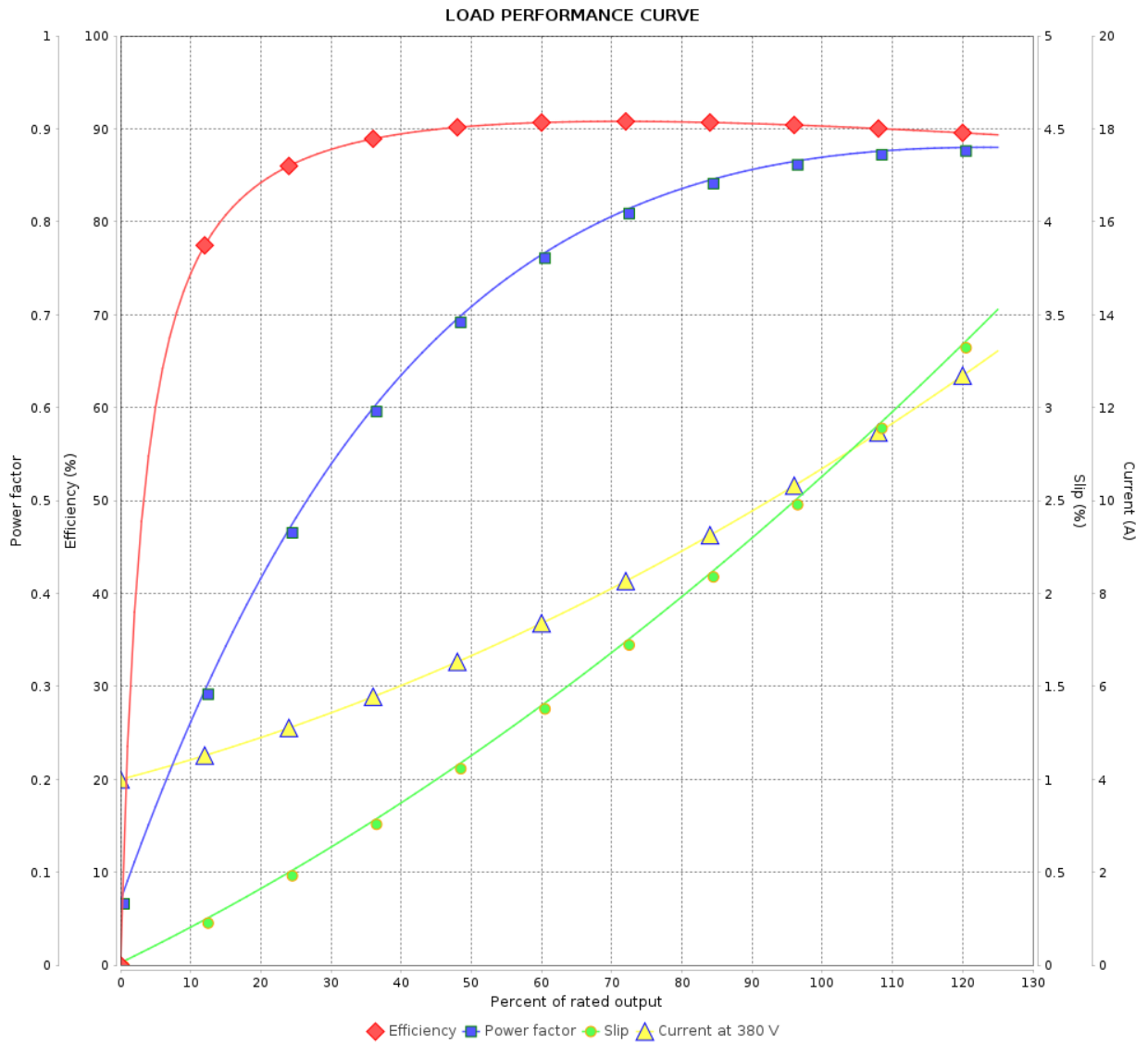


Customer : _____

Product line : W22 Tru-Metric IE3 Three-Phase

Product code :

15146480



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

Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page	Revision
Checked by				
Date				
			3 / 5	

LOAD PERFORMANCE CURVE

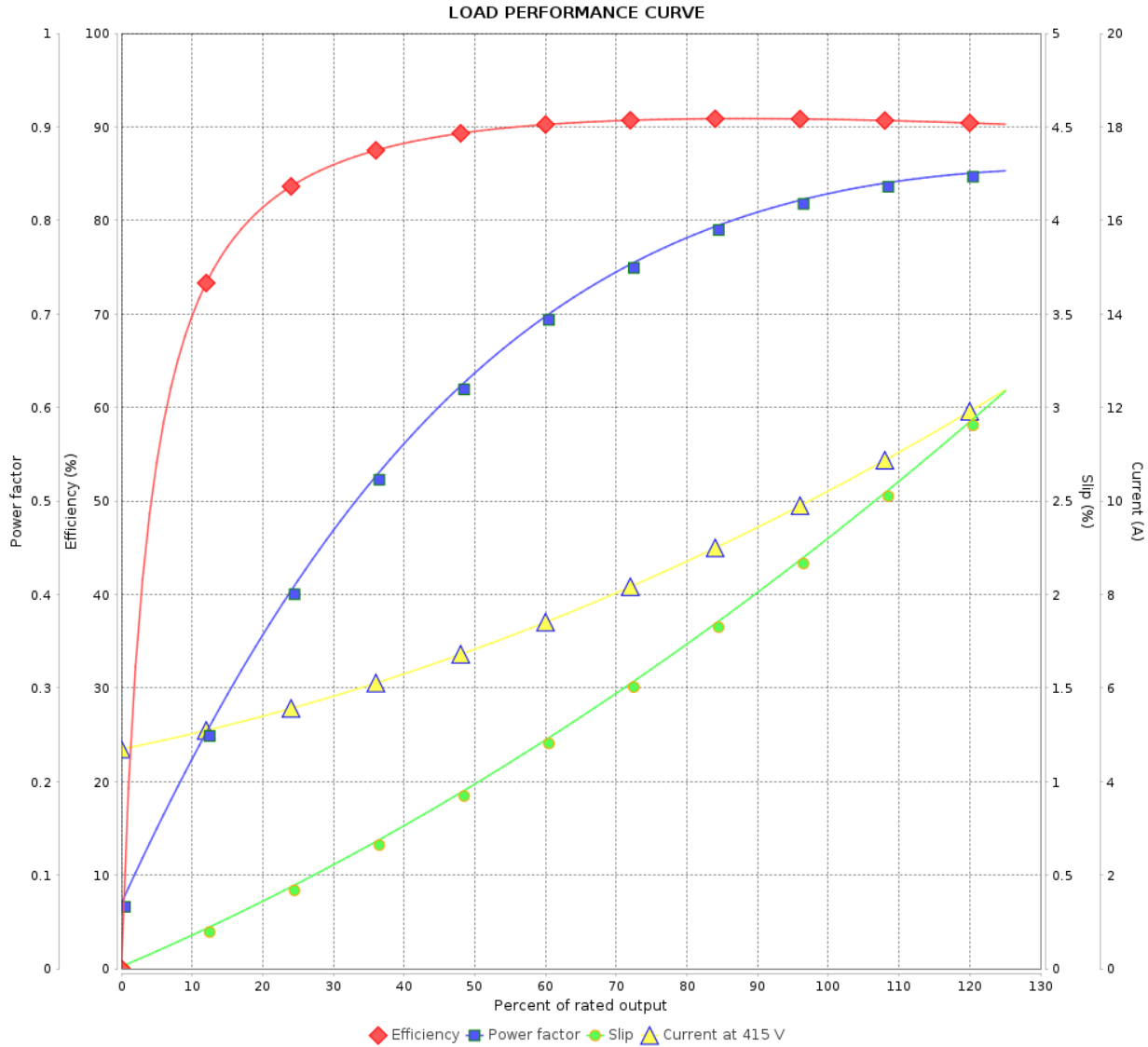
Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : W22 Tru-Metric IE3 Three-Phase

Product code : 15146480



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

Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page 4 / 5	Revision
Checked by				
Date	14/01/2024			

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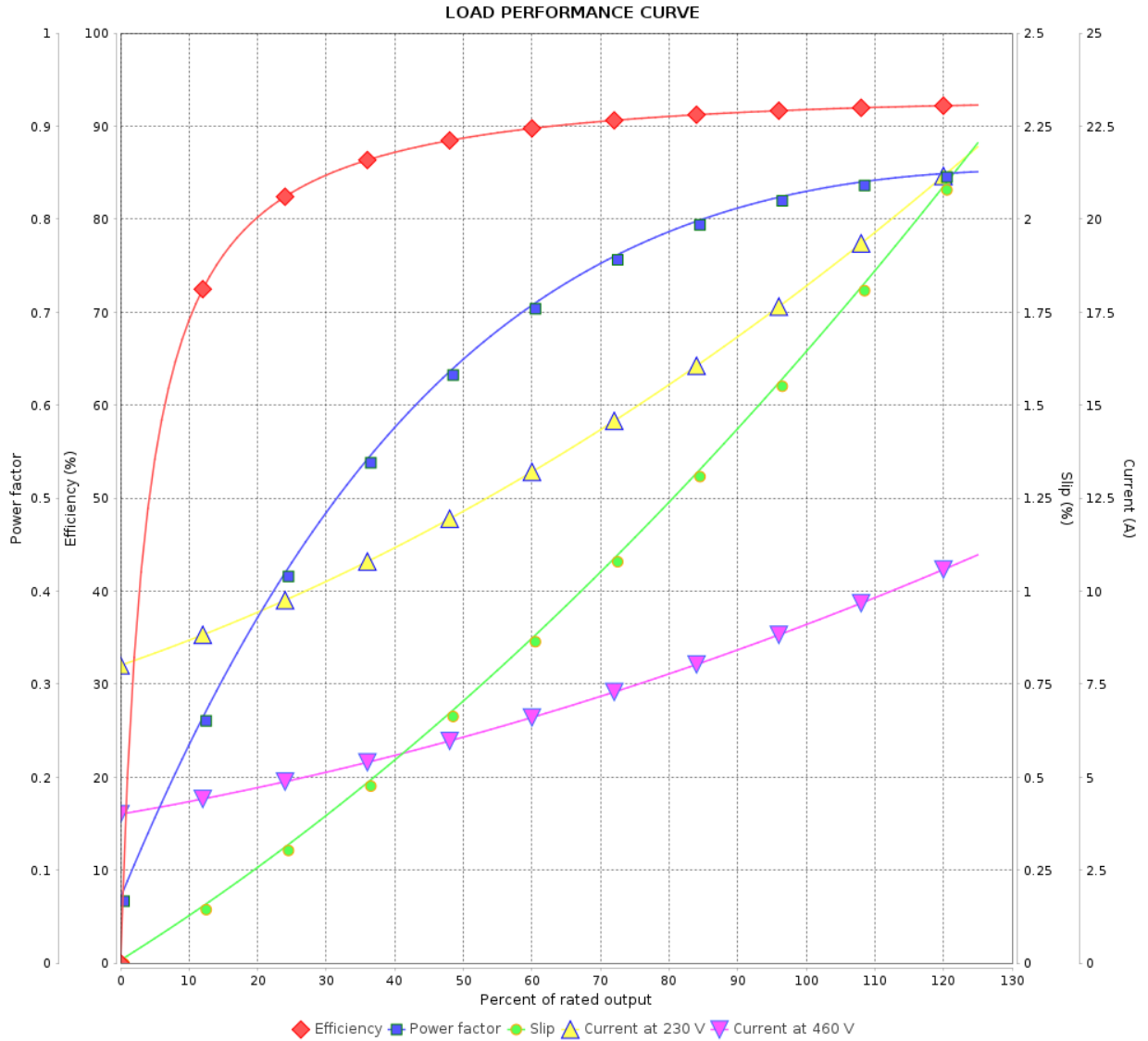


Customer : _____

Product line : W22 Tru-Metric IE3 Three-Phase

Product code :

15146480



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

Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page	Revision
Checked by				
Date				