

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :					
Product line : W22 Tru-Metric IE3 Three-Phase		Product code : 13092300			
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 : B35L(E)	Rotation ¹ : Both (CW and CCW)	
Starting method : Direct On Line	Approx. weight ² : 81.1 kg	Moment of inertia (J) : 0.0566 kgm ²			
Output [HP]	5.5	5.5	5.5		
Poles	6	6	6		
Frequency [Hz]	50	50	60		
Rated voltage [V]	380	415	230/460		
Rated current [A]	9.21	9.02	15.8/7.90		
L. R. Amperes [A]	59.9	58.6	111/55.3		
LRC [A]	6.5	6.5	7.0		
No load current [A]	4.70	5.50	9.60/4.80		
Rated speed [RPM]	955	965	1165		
Slip [%]	4.50	3.50	2.92		
Rated torque [kgfm]	4.18	4.14	3.43		
Locked rotor torque [%]	190	240	190		
Breakdown torque [%]	210	280	300		
Service factor	1.25	1.25	1.25		
Temperature rise	80 K	80 K	80 K		
Locked rotor time	54s (cold) 30s (hot)	54s (cold) 30s (hot)	77s (cold) 43s (hot)		
Noise level ²	53.0 dB(A)	53.0 dB(A)	55.0 dB(A)		
Efficiency (%)	25%				
	50%	86.6	85.4	85.5	
	75%	86.9	86.6	88.5	
	100%	86.8	86.9	89.5	
Power Factor	25%				
	50%	0.57	0.50	0.50	
	75%	0.70	0.63	0.63	
	100%	0.76	0.71	0.71	
Losses at normative operating points (speed;torque), in percentage of rated output power					
Losses (%)	P1 (0,9;1,0)	14.4	14.3	11.1	
	P2 (0,5;1,0)	11.6	11.5	8.9	
	P3 (0,25;1,0)	10.8	10.7	8.3	
	P4 (0,9;0,5)	8.3	8.2	6.4	
	P5 (0,5;0,5)	5.7	5.6	4.4	
	P6 (0,5;0,25)	4.4	4.3	3.4	
	P7 (0,25;0,25)	3.2	3.2	2.5	
Bearing type	Drive end : 6308 ZZ	Non drive end : 6207 ZZ	Foundation loads		
Sealing	: V'Ring	: V'Ring	Max. traction	: 149 kgf	
Lubrication interval	: -	: -	Max. compression	: 230 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

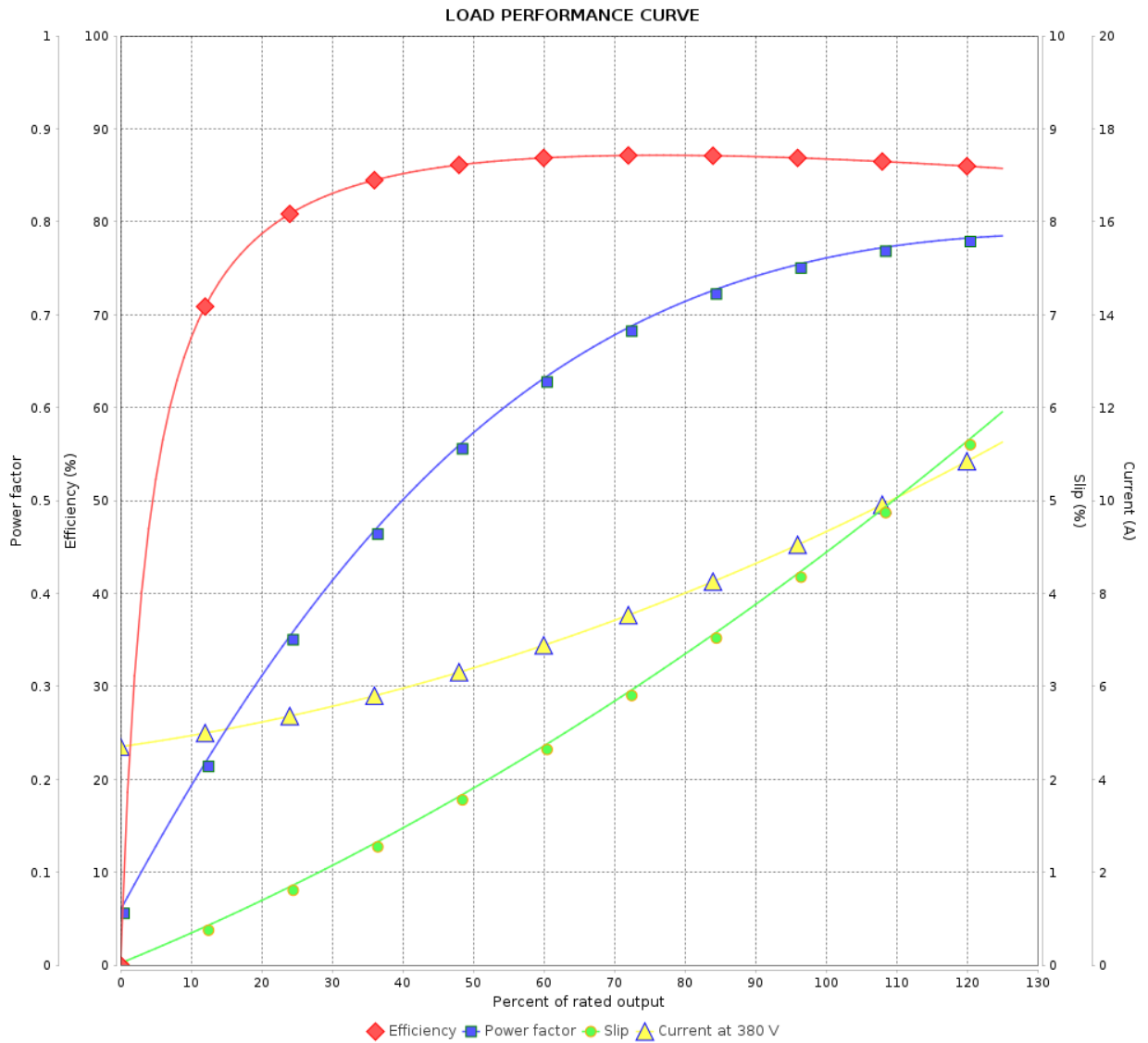
Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : W22 Tru-Metric IE3 Three-Phase

Product code : 13092300



Performance : 380 V 50 Hz 6P

Rated current : 9.21 A
 LRC : 6.5
 Rated torque : 4.18 kgfm
 Locked rotor torque : 190 %
 Breakdown torque : 210 %
 Rated speed : 955 rpm

Moment of inertia (J) : 0.0566 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

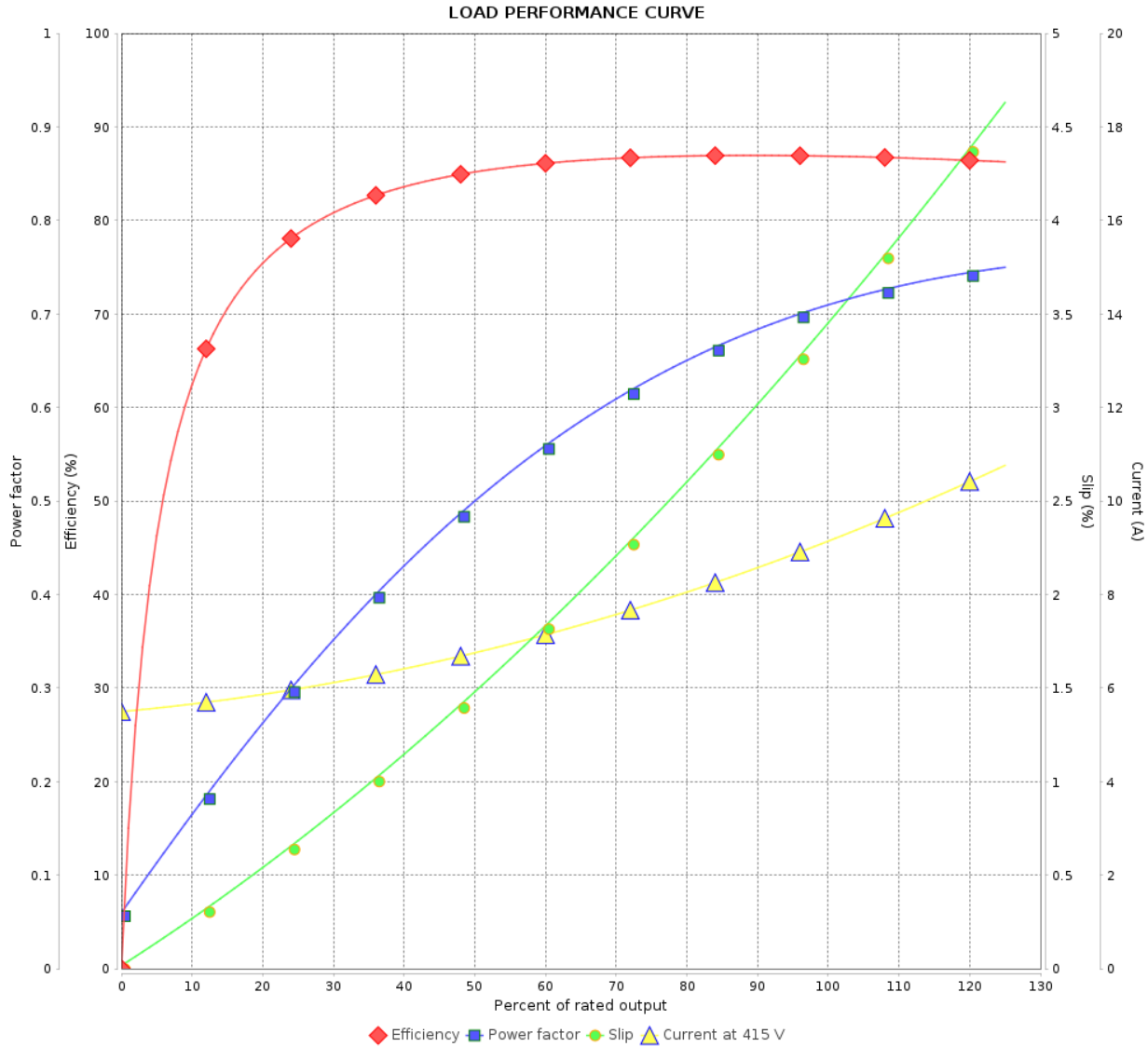
Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : W22 Tru-Metric IE3 Three-Phase

Product code : 13092300



Performance : 415 V 50 Hz 6P

Rated current : 9.02 A
 LRC : 6.5
 Rated torque : 4.14 kgfm
 Locked rotor torque : 240 %
 Breakdown torque : 280 %
 Rated speed : 965 rpm

Moment of inertia (J) : 0.0566 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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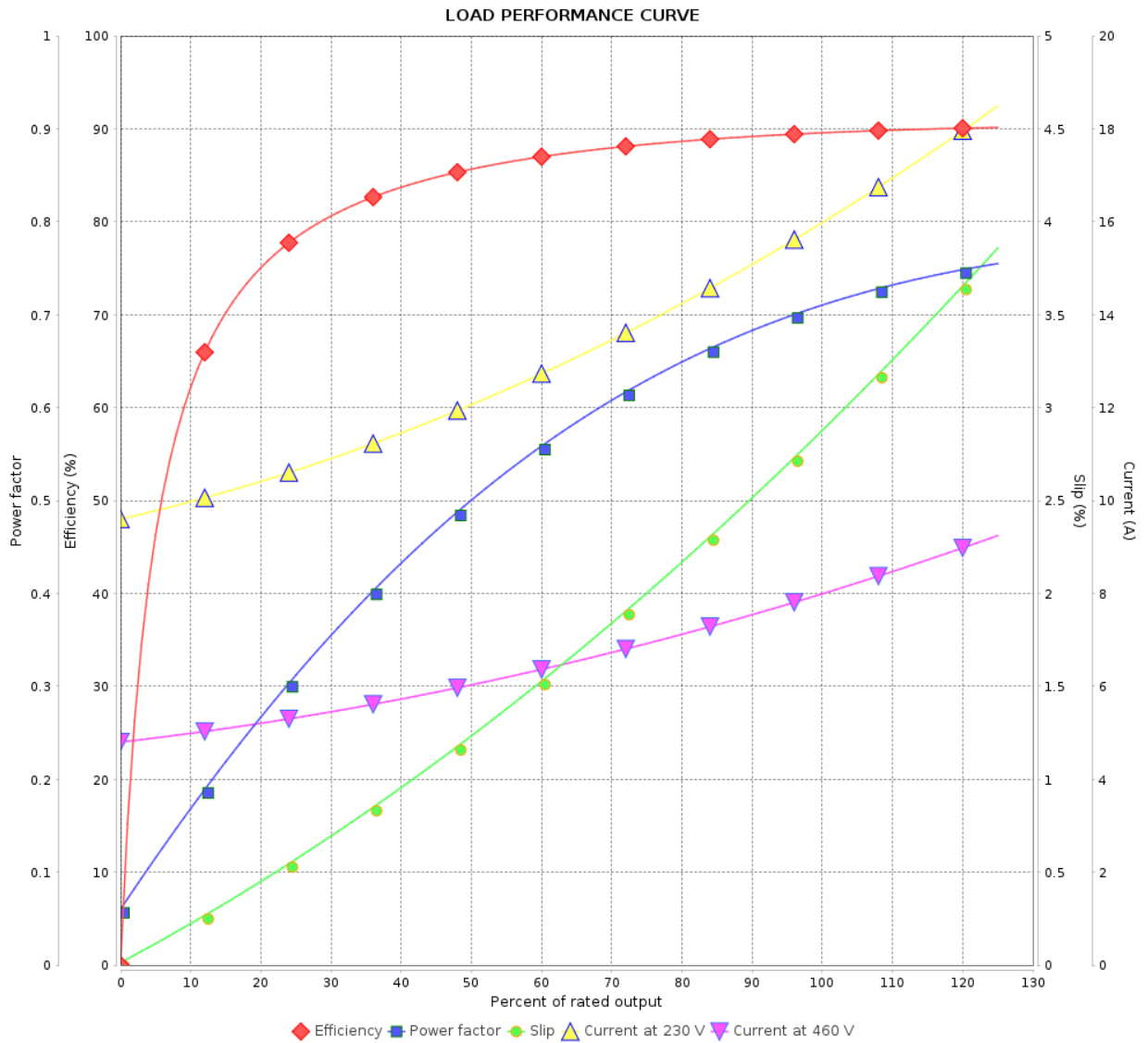
Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : W22 Tru-Metric IE3 Three-Phase

Product code : 13092300



Performance : 230/460 V 60 Hz 6P

Rated current : 15.8/7.90 A
 LRC : 7.0
 Rated torque : 3.43 kgfm
 Locked rotor torque : 190 %
 Breakdown torque : 300 %
 Rated speed : 1165 rpm

Moment of inertia (J) : 0.0566 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				