## **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IEEE 841 NEMA Premium Efficiency Product code : 12378979

Three-Phase

Frame : 213/5T Cooling method : IC411 - TEFC

Insulation class : F Mounting : F-1

Duty cycle : Cont.(S1) Rotation : Both (CW and CCW)
Ambient temperature : -20°C to +40°C Starting method : Direct On Line

Altitude : 1000 m.a.s.l. Approx. weight³ : 80.8 kg

Protection degree : IP56 Moment of inertia (J) : 0.0566 kgm²

Design : B

Design		: B			
Output [HP]		7.5	7.5	7.5	7.5
Poles		4	4	4	4
Frequency [Hz]		60	50	50	50
Rated voltage [V]		460	380	400	415
Rated current [A]		9.18	11.0	10.6	10.3
L. R. Amperes [A]		65.2	61.6	65.7	69.0
LRC [A]		7.1x(Code H)	5.6x(Code F)	6.2x(Code G)	6.7x(Code H)
No load current [A]		4.20	4.10	4.40	4.70
Rated speed [RPM	1]	1765	1455	1460	1465
Slip [%]		1.94	3.00	2.67	2.33
Rated torque [kgfm		3.08	3.74	3.73	3.72
Locked rotor torque		220	170	190	210
Breakdown torque	[%]	310	240	270	290
Service factor		1.25	1.25	1.25	1.25
Temperature rise		80 K	80 K	80 K	80 K
Locked rotor time		36s (cold) 20s (hot)	27s (cold) 15s (hot)	27s (cold) 15s (hot)	27s (cold) 15s (hot)
Noise level <sup>2</sup>		58.0 dB(A)	56.0 dB(A)	56.0 dB(A)	56.0 dB(A)
	25%				
Efficiency (%)	50%	89.5	89.5	89.5	89.5
Liliciency (70)	75%	91.0	89.5	90.2	90.2
	100%	91.7	89.6	90.2	90.2
	25%				
Power Factor	50%	0.66	0.72	0.69	0.66
1 OWELL ACTOL	75%	0.76	0.81	0.78	0.76
	100%	0.82	0.85	0.83	0.82

Losses at normative operating points (speed:torque), in percentage of rated output power

Locoto at normany	o oporating points (op	ood,torquo), iii porooi	nago or ratou output	POWO	
	P1 (0,9;1,0)	8.8	8.8	8.8	8.8
	P2 (0,5;1,0)	7.0	7.0	7.0	7.0
	P3 (0,25;1,0)	6.5	6.5	6.5	6.5
Losses (%)	P4 (0,9;0,5)	4.9	4.9	4.9	4.9
	P5 (0,5;0,5)	3.3	3.3	3.3	3.3
	P6 (0,5;0,25)	2.4	2.4	2.4	2.4
	P7 (0,25;0,25)	1.6	1.6	1.6	1.6

Drive end Non drive end Foundation loads

Bearing type : 6308 C3 6207 C3 Max. traction : 159 kgf
Sealing : Inpro/Seal Inpro/Seal Max. compression : 240 kgf

Lubrication interval:20000 h20000 hLubricant amount:11 g7 gLubricant 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.

These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA MG-1.

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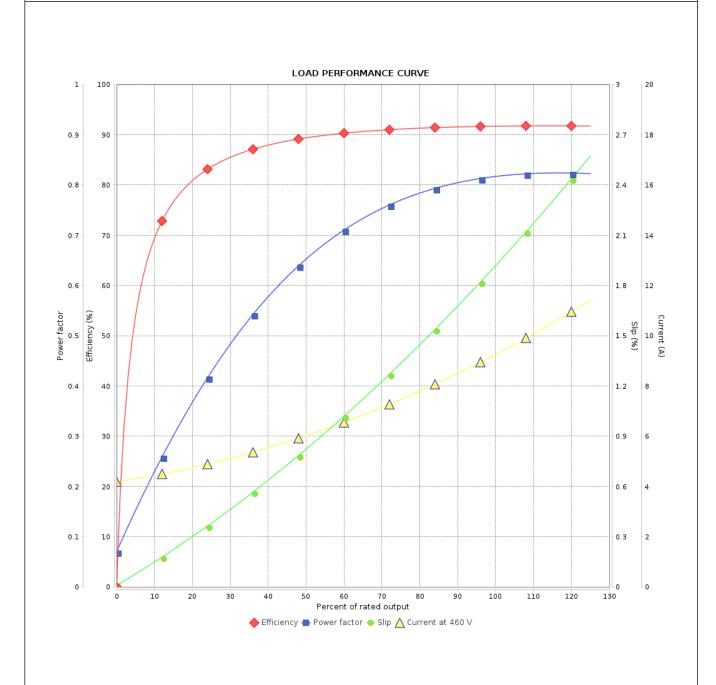
### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IEEE 841 NEMA Premium Efficiency Product code : 12378979

Three-Phase



Performance	: 460 V 60 Hz 4P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 9.18 A : 7.1 : 3.08 kgfm : 220 % : 310 % : 1765 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 0.0566 kgm² : Cont.(S1) : F : 1.25 : 80 K : B	: F : 1.25 : 80 K	
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### Three Phase Induction Motor - Squirrel Cage



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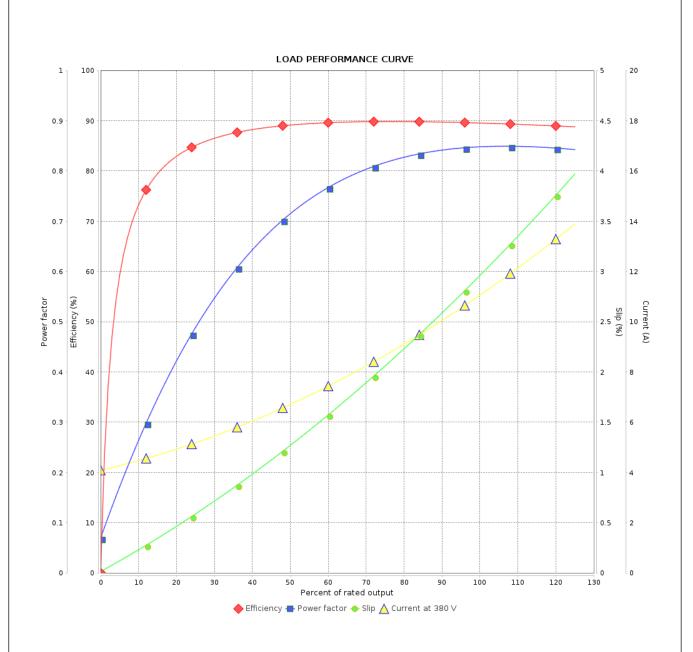
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Product code:

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Performance	: 3	: 380 V 50 Hz 4P IE3						
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 5 : 3 que : 1 ue : 2	1.0 A 5.6 3.74 kgfm 70 % 240 % 455 rpm	Duty cycle Insulation Service fa	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.0566 kgm² : Cont.(S1) : F : 1.25 : 80 K : B		
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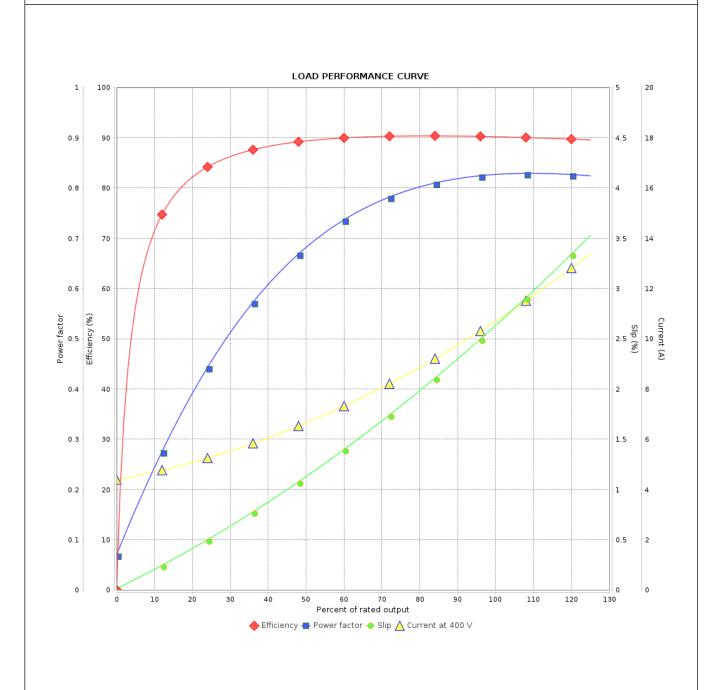
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### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : W22 IEEE 841 NEMA Premium Efficiency Product code: 12378979



Performance	:	: 400 V 50 Hz 4P IE3				
Rated current :		10.6 A	Moment o	Moment of inertia (J)		2
LRC	:	6.2	Duty cycle	Duty cycle		
Rated torque		3.73 kgfm Insulation cla		class	: F	
Locked rotor torque		190 %	Service factor		: 1.25	
Breakdown torque		270 % Temperature		ıre rise : 80 K		
Rated speed	:	: 1460 rpm		Design		
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### Three Phase Induction Motor - Squirrel Cage



Customer

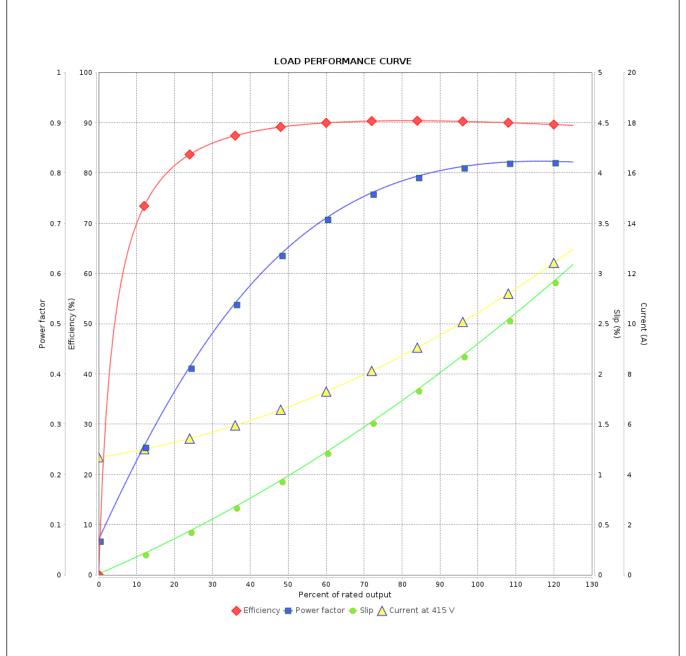
Product line : W22 IEEE 841 NEMA Premium Efficiency

Product code:

12378979

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Three-Phase



Performance	: 415 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 10.3 A : 6.7 : 3.72 kgfm : 210 % : 290 % : 1465 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.0566 kgm² : Cont.(S1) : F : 1.25 : 80 K : B	
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