### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W40 High Efficiency Three-Phase Product code : 13485038

Frame : 447/9TSD Cooling method : IC01 - ODP

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 : 939 kg
Protection degree : IP23 Moment of inertia (J) : 1.65 kgm²

Protection degree	e	: IP23	Moment of ine	ertia (J)	kgm²
Design		: B			
Output [HP]		400	400	400	400
Poles		2	2	2	2
Frequency [Hz]		60	50	50	50
Rated voltage [V]		460	380	400	415
Rated current [A]		443	536	512	499
L. R. Amperes [A]		2658	2841	3021	3194
LRC [A]		6.0x(Code F)	5.3x(Code E)	5.9x(Code F)	6.4x(Code G)
No load current [A]		100	95.0	108	118
Rated speed [RPM	1]	3565	2955	2960	2965
Slip [%]		0.97	1.50	1.33	1.17
Rated torque [kgfm	ո]	81.4	98.2	98.1	97.9
Locked rotor torque [%]		150	120	130	140
Breakdown torque	[%]	229	190	200	220
Service factor		1.15	1.15	1.15	1.15
Temperature rise		80 K	105 K	105 K	80 K
Locked rotor time		25s (cold) 14s (hot)	21s (cold) 12s (hot)	21s (cold) 12s (hot)	21s (cold) 12s (hot)
Noise level <sup>2</sup>		85.0 dB(A)			
	25%				
Efficiency (%)	50%	95.0	95.0	95.0	95.0
Liliciency (70)	75%	95.4	95.0	95.0	95.0
	100%	95.4	94.5	95.0	95.0
	25%				
Power Factor	50%	0.83	0.85	0.83	0.82
I OWEI FACIOI	75%	0.88	0.89	0.88	0.87
	100%	0.89	0.90	0.89	0.88
	100%	0.89	0.90	0.89	0.88

Drive end Non drive end Foundation loads

Bearing type : 6314 C3 6314 C3 Max. traction : 1414 kgf
Sealing : Without Without Max. compression : 2354 kgf

Bearing Seal Bearing Seal Lubrication interval : 14418 h

Lubricant amount : 27 g 27 g
Lubricant type : Mobil Polyrex EM

Notes

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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Customer	
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#### Thermal protection

ID	Application	Туре	Quantity	Sensing Temperature
1	Winding	Thermistor - 2 wires	1 x Phase	155 °C

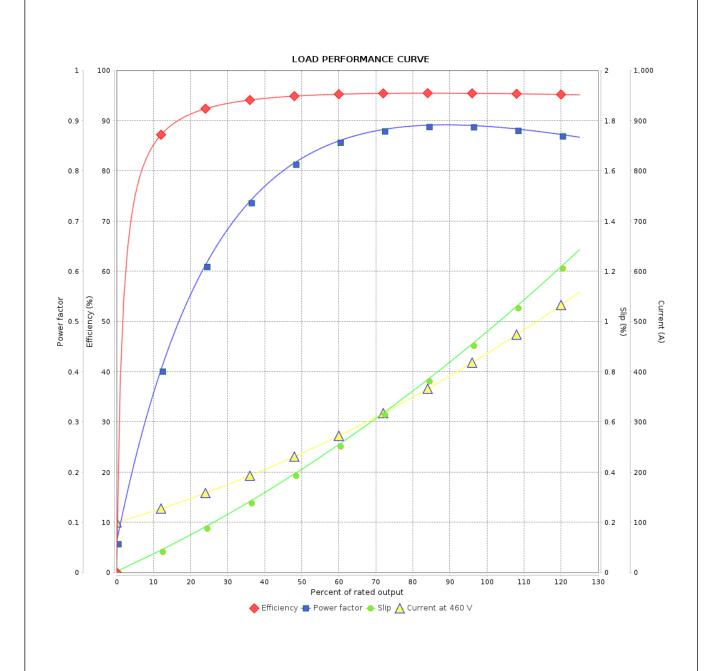
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#### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W40 High Efficiency Three-Phase Product code : 13485038



Performance	: 460 V 60 Hz 2P		
Rated current	: 443 A	Moment of inertia (J)	: 1.65 kgm²
LRC	: 6.0	Duty cycle	: Cont.(S1)
Rated torque	: 81.4 kgfm	Insulation class	: F
Locked rotor torque	: 150 %	Service factor	: 1.15
Breakdown torque	: 229 %	Temperature rise	: 80 K
Rated speed	: 3565 rpm	Design	: B
	01 0		

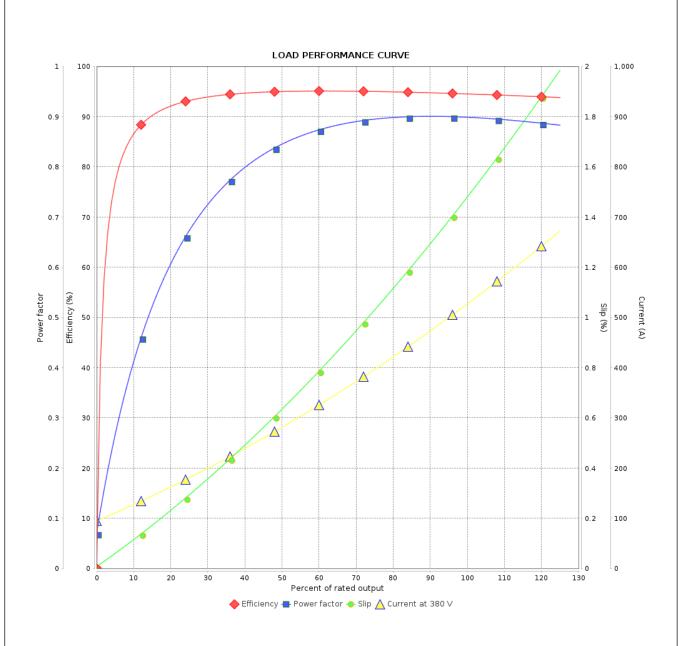
Rated speed	: 38	o65 rpm	Design		: B	
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#### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W40 High Efficiency Three-Phase Product code : 13485038



Performance		: 380 V 50 Hz 2P IE1				
Rated current		: 536 A	Moment of	of inertia (J)	: 1.65 kgm²	
LRC		: 5.3	Duty cycle	•	: Cont.(S1)	
Rated torque		: 98.2 kgfm	Insulation	class	: F	
Locked rotor torg	lue	: 120 %	Service fa	ctor	: 1.15	
Breakdown torqu	ie	: 190 %	Temperat	ure rise	: 105 K	
Rated speed		: 2955 rpm	Design		: B	
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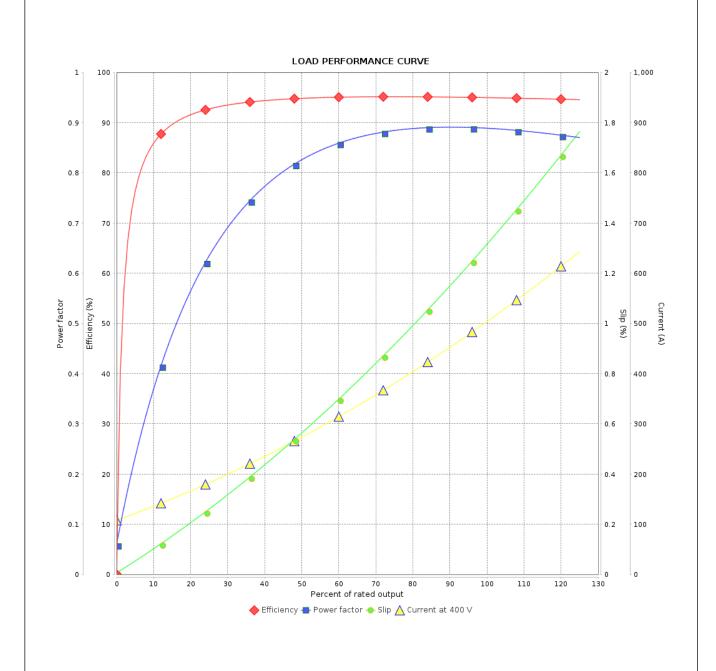
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Product line : W40 High Efficiency Three-Phase Product code : 13485038



Performance	: 400	0 V 50 Hz 2P IE2				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	que : 130 ue : 200	1 kgfm 0 %	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 1.65 kgm² : Cont.(S1) : F : 1.15 : 105 K : B	
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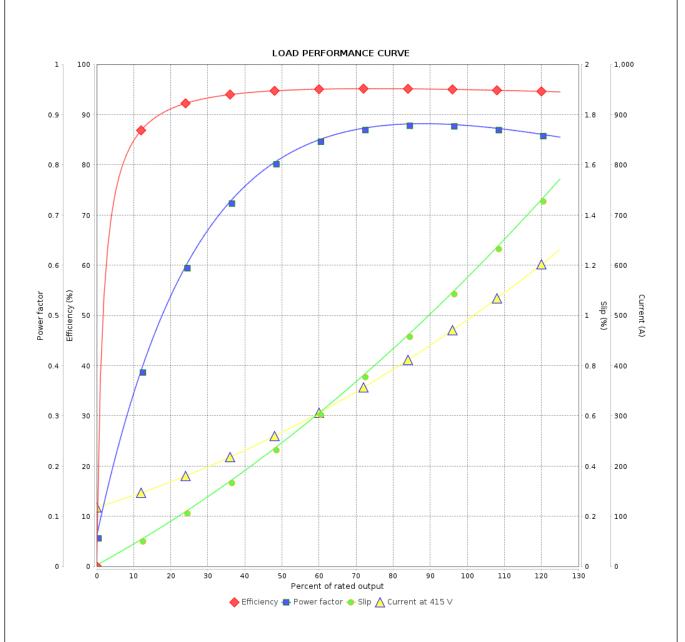
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Product line : W40 High Efficiency Three-Phase Product code : 13485038



Performance	: 415 V 50 Hz 2P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 499 A : 6.4 : 97.9 kgfm : 140 % : 220 % : 2965 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 1.65 kgm² : Cont.(S1) : F : 1.15 : 80 K : B	
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