### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : W21 Explosion Proof NEMA Product code: 14945679

Premium Efficiency Three-Phase

: 143/5TC Frame Cooling method : IC411 - TEFC

Insulation class : F Mounting : F-1

Duty cycle : Cont.(S1) Rotation<sup>1</sup> : Both (CW and CCW) Ambient temperature : -20°C to +40°C Starting method : Direct On Line

Approx. weight<sup>3</sup> Altitude : 1000 m.a.s.l. : 34.1 kg Protection degree : IP55 Moment of inertia (J) : 0.0067 kgm<sup>2</sup>

Design	•	: B	Womenton	. 0.00	or kgiii
Output [HP]		1	1	1	1
Poles		6	6	6	6
Frequency [Hz]		60	50	50	50
Rated voltage [V]		230/460	380	400	415
Rated current [A]		3.26/1.63	1.91	1.86	1.85
L. R. Amperes [A]		20.2/10.1	9.17	9.67	10.2
LRC [A]		6.2x(Code K)	4.8x(Code G)	5.2x(Code H)	5.5x(Code J)
No load current [A	]	2.00/1.00	0.950	1.05	1.15
Rated speed [RPN	1]	1150	930	940	950
Slip [%]		4.17	7.00	6.00	5.00
Rated torque [kgfn		0.631	0.780	0.772	0.764
Locked rotor torqu	e [%]	260	180	210	240
Breakdown torque	[%]	280	200	229	250
Service factor		1.15	1.00	1.00	1.00
Temperature rise		80 K	80 K	80 K	80 K
Locked rotor time		50s (cold) 28s (hot)	36s (cold) 20s (hot)	36s (cold) 20s (hot)	36s (cold) 20s (hot)
Noise level <sup>2</sup>		50.0 dB(A)	45.0 dB(A)	45.0 dB(A)	45.0 dB(A)
	25%				
Efficiency (%)	50%	77.0	77.0	75.5	74.0
Liliciency (70)	75%	82.0	78.0	78.0	78.0
	100%	82.5	78.5	78.5	78.5
	25%				
Power Factor	50%	0.51	0.58	0.54	0.50
1 OWCI I actor	75%	0.63	0.70	0.67	0.64
	100%	0.70	0.76	0.74	0.72

Non drive end Drive end Foundation loads

Bearing type 6205 2RS 6204 2RS Max. traction : 36 kgf Sealing Oil Seal Lip Seal Max. compression : 72 kgf

Lubrication interval Lubricant amount Mobil Polyrex EM Lubricant type

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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#### Thermal protection

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

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### Three Phase Induction Motor - Squirrel Cage

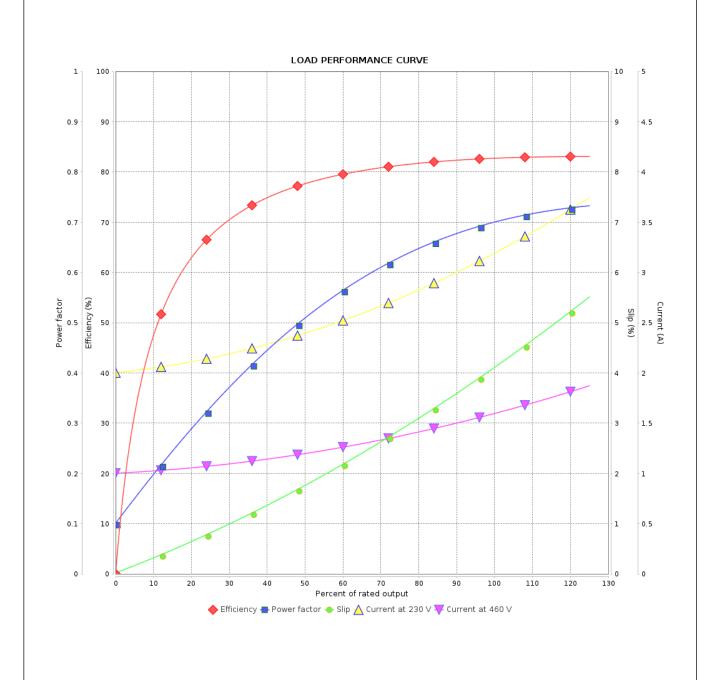


Customer :

Product line : W21 Explosion Proof NEMA

Premium Efficiency Three-Phase

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Performance	: 230/460 V 60 Hz 6P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 3.26/1.63 A : 6.2 : 0.631 kgfm : 260 % : 280 % : 1150 rpm	Moment of iner Duty cycle Insulation class Service factor Temperature ris Design	8	: 0.0067 kgm² : Cont.(S1) : F : 1.15 : 80 K : B	
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### Three Phase Induction Motor - Squirrel Cage

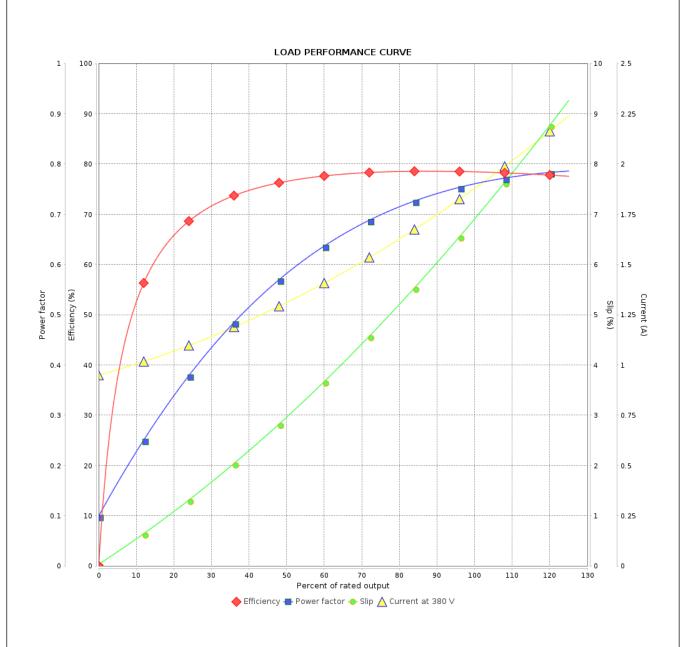


Customer :

Product line : W21 Explosion Proof NEMA

Premium Efficiency Three-Phase

Product code: 14945679



Performance		: 380 V 50 Hz 6P IE2				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	•	: 1.91 A : 4.8 : 0.780 kgfm : 180 % : 200 % : 930 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 0.0067 kgm <sup>2</sup> : Cont.(S1) : F : 1.00 : 80 K : B	
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Customer :

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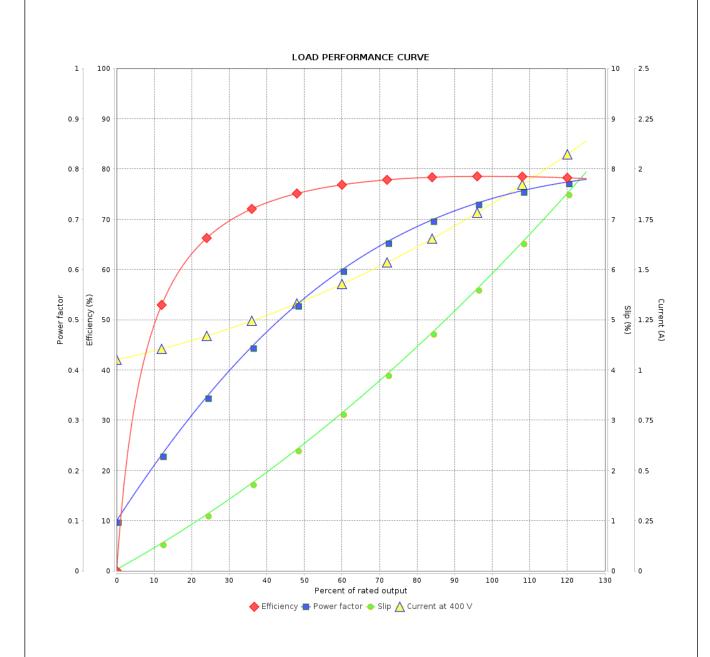
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Product line : W21 Explosion Proof NEMA P

Premium Efficiency Three-Phase

Product code: 14945679



Performance	: 40	00 V 50 Hz 6P IE2				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 5. : 0. que : 2. ue : 2.	.86 A .2 .772 kgfm 10 % 29 % 40 rpm	Moment of Duty cycle Insulation Service far Temperate Design	class ctor	: 0.0067 kgm² : Cont.(S1) : F : 1.00 : 80 K : B	
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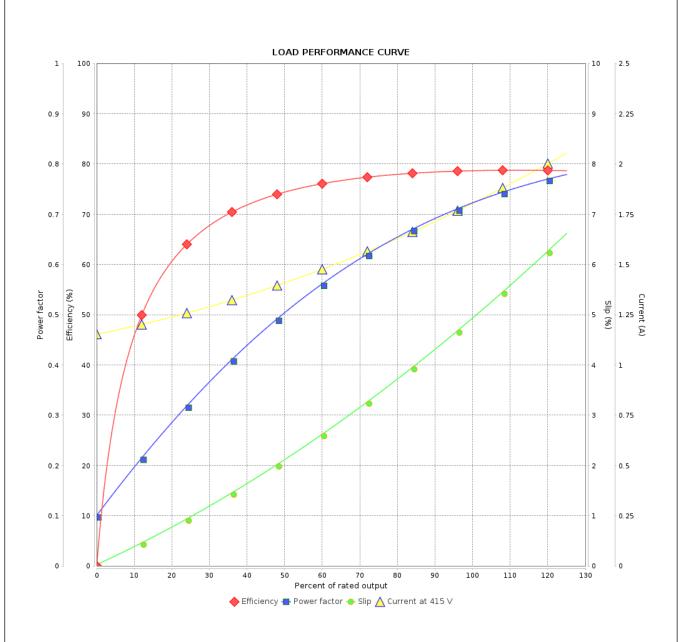
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Product line : W21 Explosion Proof NEMA

Premium Efficiency Three-Phase

Product code: 14945679



Performance	: 415 V 50 Hz 6P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 1.85 A : 5.5 : 0.764 kgfm : 240 % : 250 % : 950 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 0.0067 kgm² : Cont.(S1) : F : 1.00 : 80 K : B	
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