### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer Product line : W21 Explosion Proof NEMA Premium Product code: 12423616 Efficiency Three-Phase : 504/5T Locked rotor time Frame : 25s (cold) 14s (hot) Output : 200 HP (150 kW) Temperature rise : 80 K Poles Duty cycle : Cont.(S1) : -20°C to +40°C Frequency : 60 Hz Ambient temperature : 575 V : 1000 m.a.s.l. Rated voltage Altitude Protection degree Rated current : 199 A : IP55 : 1554 A Cooling method : IC411 - TEFC L. R. Amperes **LRC** : 7.8x(Code J) Mounting : F-1 Rotation<sup>1</sup> : Both (CW and CCW) No load current : 100 A Rated speed : 1190 rpm Noise level<sup>2</sup> : 73.0 dB(A) Slip : 0.83 % Starting method : Direct On Line Rated torque : 122 kgfm Approx. weight<sup>3</sup> : 1218 kg Locked rotor torque : 270 % Breakdown torque : 280 % : F Insulation class Service factor : 1.15 Moment of inertia (J) : 5.63 kgm<sup>2</sup> Design : B 50% 75% Output 100% Foundation loads Efficiency (%) 94.5 95.4 95.8 Max. traction : 2080 kgf : 3297 kgf Power Factor 0.60 0.73 0.79 Max. compression Non drive end Drive end Bearing type 6319 C3 6316 C3 Viton Oil Seal Viton Seal Sealing Lubrication interval 11094 h 12823 h Lubricant amount 45 g 34 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.

Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	13/01/2024			1/3	

# DATA SHEET

### Three Phase Induction Motor - Squirrel Cage



Customer	

#### Thermal protection

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

Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	13/01/2024			2/3	

# LOAD PERFORMANCE CURVE

## Three Phase Induction Motor - Squirrel Cage

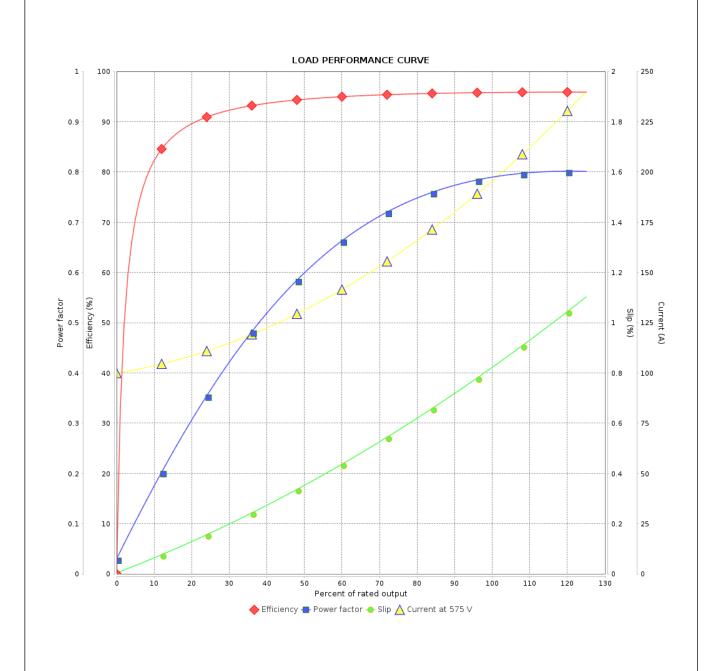


Customer :

Product line : W21 Explosion Proof NEMA Premium

Efficiency Three-Phase

Product code: 12423616



Performance	: 575 V 6	0 Hz 6P				
Rated current	: 199 A	Mome	nt of inertia (J)	: 5.63 kgm²		
LRC	: 7.8	Duty c	ycle	: Cont.(S1)		
Rated torque	: 122 kgfi	m Insulat	ion class	: F		
Locked rotor torque : 270 %		Service	Service factor		: 1.15	
Breakdown torque : 280 %		Tempe	rature rise	: 80 K		
Rated speed : 1190 rpm		m Design	1	: B		
Rev.	Chan	ges Summary	Performed	Checked	Date	

Rated speed	: 11	190 rpm	Design		: B	
Rev.	Changes Summary			Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	13/01/2024	-			3/3	