DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer	:					
Product line		: W21 Explosion Proof NEMA Product code : 15349039 Premium Efficiency Three-Phase				
Frame Output Poles Frequency Rated voltage Rated current L. R. Amperes LRC No load current Rated speed Slip Rated torque Locked rotor torque Breakdown torque Insulation class Service factor Moment of inertia (J) Design		: 447T : 150 HP (110 kW) : 8 : 60 Hz : 575 V : 143 A : 858 A : 6.0x(Code G) : 60.0 A : 890 rpm : 1.11 % : 122 kgfm : 170 % : 200 % : F : 1.15 : 5.29 kgm² : B		Locked rotor time Temperature rise Duty cycle Ambient temperature Altitude Protection degree Cooling method Mounting Rotation¹ Noise level² Starting method Approx. weight³	: 32s (cold) 18s (hot) : 80 K : Cont.(S1) : -20°C to +40°C : 1000 m.a.s.l. : IP55 : IC411 - TEFC : F-1 : Both (CW and CCW) : 66.0 dB(A) : Direct On Line : 1202 kg	
Output Efficiency (%)	50% 94.5	75% 95.0	100% 94.5	Foundation loads Max. traction	: 1538 kgf	
Power Factor 0.68 Bearing type Sealing Lubrication interval Lubricant amount Lubricant type Notes		0.77	Drive end 6319 C3 Viton Oil Seal 14016 h 45 g	Max. compression Non drive end 6316 C3 Lip Seal 15904 h 34 g obil Polyrex EM		
No load current Rated speed Slip Rated torque Locked rotor torque Breakdown torque Insulation class Service factor Moment of inertia (J) Design Output 50% Efficiency (%) 94.5 Power Factor 0.68 Bearing type Sealing Lubrication interval Lubricant amount		: 890 rpm : 1.11 % : 122 kgfm : 170 % : 200 % : F : 1.15 : 5.29 kgm : B	100% 94.5 0.82 Drive end 6319 C3 Viton Oil Seal 14016 h 45 g	Noise level ² Starting method Approx. weight ³ Foundation loads Max. traction Max. compression Non drive end 6316 C3 Lip Seal 15904 h 34 g	: 66.0 dB(A) : Direct On Line : 1202 kg : 1538 kgf : 2742 kgf	

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	29/10/2024			1/3	

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer	
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	29/10/2024			2/3	

LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

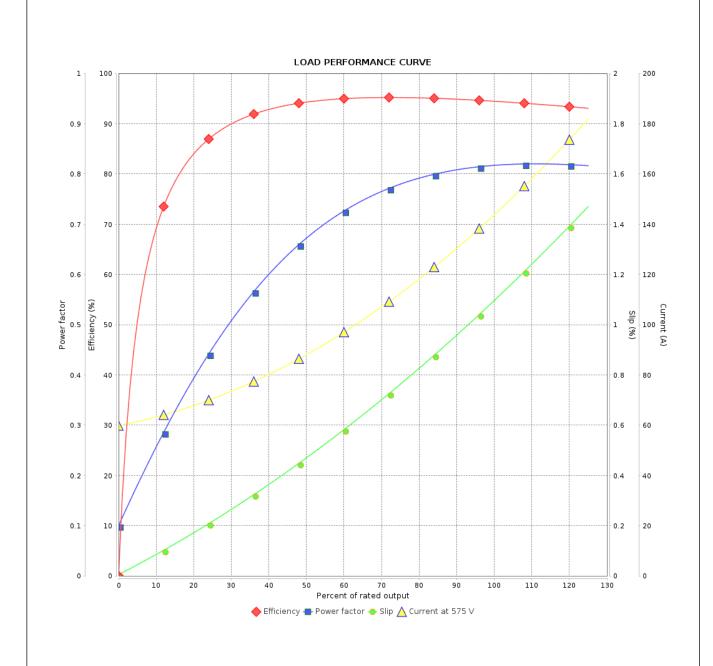


Customer :

Product line : W21 Explosion Proof NEMA

Premium Efficiency Three-Phase

Product code: 15349039



Performance		: 575 V 60 Hz 8P				
Rated current		: 143 A	Moment of inertia (J)		: 5.29 kgm²	
LRC		: 6.0	Duty cycle		: Cont.(S1)	
Rated torque		: 122 kgfm	Insulation class		: F	
Locked rotor torque		: 170 %	Service factor		: 1.15	
Breakdown torque		: 200 %	Temperature rise		: 80 K	
Rated speed : 890 r		: 890 rpm	Design		: B	
Rev.	Changes Summary		1	Performed	Checked	Date

•		·				
Rev.		Changes Summary		Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	29/10/2024				3/3	