DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W21 Explosion Proof NEMA Premium Product code: 14380390 Efficiency Three-Phase : 213/5T Locked rotor time Frame : 21s (cold) 12s (hot) Output : 7.5 HP (5.5 kW) Temperature rise : 80 K Poles Duty cycle : Cont.(S1) Frequency : 60 Hz Ambient temperature : -20°C to +40°C Rated voltage : 575 V Altitude : 1000 m.a.s.l. Rated current Protection degree : IP55 : 7.53 A L. R. Amperes : 50.4 A Cooling method : IC411 - TEFC : 6.7x(Code H) **LRC** Mounting : F-1 : Both (CW and CCW) No load current : 2.72 A Rotation¹ Rated speed : 1765 rpm Noise level² : 58.0 dB(A) Slip : 1.94 % Starting method : Direct On Line Rated torque : 3.08 kgfm Approx. weight³ : 89.5 kg Locked rotor torque : 210 % Breakdown torque : 280 % : F Insulation class Service factor : 1.15 Moment of inertia (J) : 0.0582 kgm² Design : B 25% 100% Output 50% 75% Foundation loads Efficiency (%) 89.4 90.2 91.0 91.7 Max. traction : 115 kgf Power Factor 0.40 0.60 0.73 0.80 Max. compression : 204 kgf Losses at normative operating points (speed;torque), in percentage of rated output power P2 (0,5;1,0) P3 (0,25;1,0) P4 (0,9;0,5) P1 (0,9;1,0) P5 (0,5;0,5) P6 (0,5;0,25) P7 (0,25;0,25) 8.8 7.3 6.4 4.4 2.9 1.9 1.3 Drive end Non drive end 6308 2RS Bearing type 6207 2RS Oil Seal Sealing Lip Seal Lubrication interval Lubricant amount Lubricant type Mobil Polyrex EM Notes: This revision replaces and cancel the previous one, which These are average values based on tests with sinusoidal must be eliminated. power supply, subject to the tolerances stipulated in NEMA (1) Looking the motor from the shaft end. MG-1. (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.

. ,					
Rev.	ev. Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	15/01/2024			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	15/01/2024			2/3	

LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

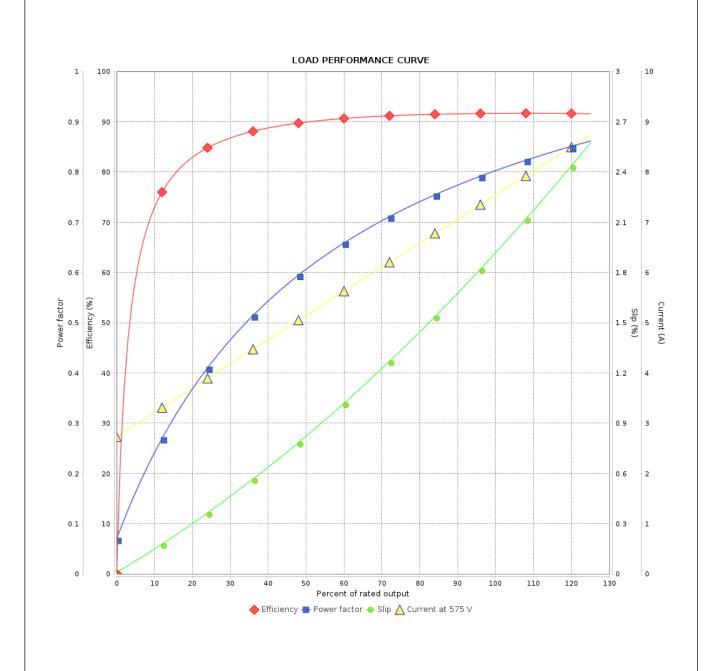


Customer :

Product line : W21 Explosion Proof NEMA Premium

Efficiency Three-Phase

Product code: 14380390



Performance		: 575 V 60 Hz 4P					
Rated current	(-)		: 0.0582 kgm²				
LRC		: 6.7		Duty cycle		: Cont.(S1)	
Rated torque : 3.08 kgfm		Insulation	Insulation class		: F		
Locked rotor torque : 210 %		Service factor		: 1.15	: 1.15		
Breakdown torque : 280 %		Temperati	Temperature rise		: 80 K		
Rated speed : 1765 rpm		Design	Design		: B		
Rev. Changes Summary			Performed	Checked	Date		

•		•				
Rev.		Changes Summary		Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	15/01/2024				3/3	