DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W21 Explosion Proof NEMA Product code: 14715276 Premium Efficiency Three-Phase : 286TC Cooling method Frame : IC411 - TEFC Insulation class Mounting : F-1 : F Duty cycle : Cont.(S1) Rotation¹ : Both (CW and CCW) Ambient temperature : -20°C to +40°C Starting method : Direct On Line : 1000 m.a.s.l. Approx. weight³ Altitude : 232 kg Protection degree : IP55 Moment of inertia (J) : 0.2175 kgm² Design : B Output [HP] 30 30 Poles 4 4 Frequency [Hz] 60 50 208-230/460 Rated voltage [V] 380 Rated current [A] 79.6-72.0/36.0 43.4 L. R. Amperes [A] 486-439/220 230 LRC [A] 6.1x(Code G) 5.3x(Code F) No load current [A] 27.2-24.6/12.3 12.2 Rated speed [RPM] 1770 1455 Slip [%] 1.67 3.00 Rated torque [kgfm] 12.3 15.0 Locked rotor torque [%] 240 170 Breakdown torque [%] 240 200 Service factor 1.00 1.15 Temperature rise 80 K 80 K Locked rotor time 30s (cold) 17s (hot) 36s (cold) 20s (hot) Noise level² 68.0 dB(A) 64.0 dB(A) 25% 0.000 0.000 50% 93.0 90.0 Efficiency (%) 75% 93.0 90.2 100% 93.6 90.2 25% 0.00 0.00 50% 0.70 0.76 Power Factor 75% 0.80 0.83 100% 0.84 0.86 Non drive end Foundation loads Drive end 6311 C3 6211 C3 Bearing type Max. traction : 312 kgf Sealing Oil Seal Lip Seal Max. compression : 544 kgf Lubrication interval 20000 h 20000 h Lubricant amount 18 g 11 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	29/10/2024	1		1/4	

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer	

Thermal protection

l		•		
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			2/4	

LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

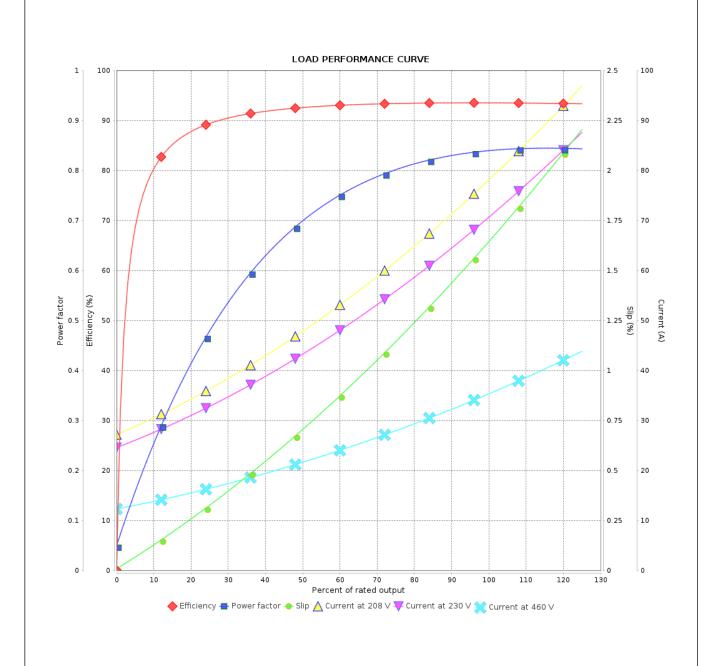
Date

29/10/2024

Product line : W21 Explosion Proof NEMA

Premium Efficiency Three-Phase

Product code: 14715276



Performance	: 208-230/460 V 60 Hz 4P					
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 79.6-72.0/36.0 A : 6.1 : 12.3 kgfm : 240 % : 240 % : 1770 rpm	Moment of Duty cycle Insulation of Service fact Temperatur Design	class ctor	: 0.2175 kgm² : Cont.(S1) : F : 1.15 : 80 K : B		
Rev.	Changes Summary		Performed	Checked	Date	
Performed by						
Checked by				Page	Revision	

3/4

LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

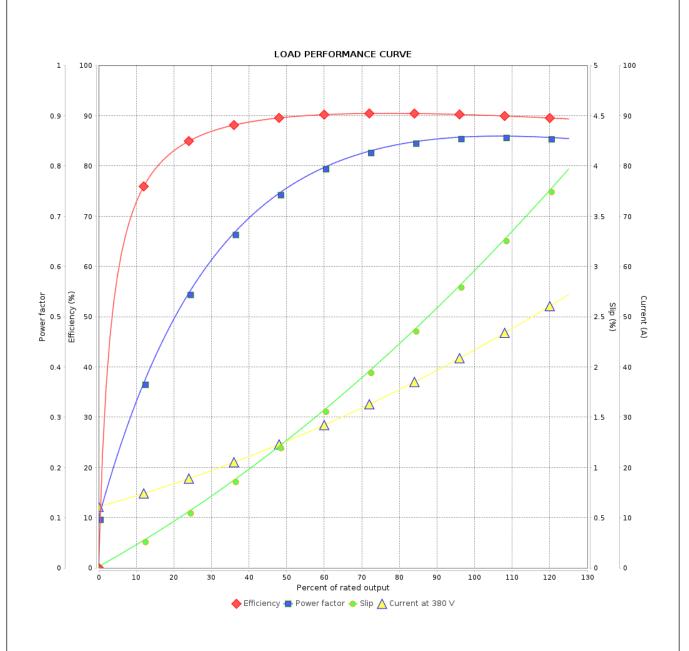


Customer :

Product line : W21 Explosion Proof NEMA

Premium Efficiency Three-Phase

Product code: 14715276



	,		·			
Performance	:	380 V 50 Hz 4P				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: : que : ue :	43.4 A 5.3 15.0 kgfm 170 % 200 % 1455 rpm	Duty cycle Insulation Service fa	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		
Rev.	Changes Summary		ary	Performed	Checked	Date
Performed by Checked by					Page	Revision

4/4

29/10/2024

Date