

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase Product code : 12212457
Catalog # : 01518NT3FVD254TC-W22

Frame	: 254/6TCZ	Locked rotor time	: 48s (cold) 27s (hot)
Output	: 15 HP (11 kW)	Temperature rise	: 105 K
Poles	: 4	Duty cycle	: Cont.(S1)
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 230/460 V	Altitude	: 1000 m.a.s.l.
Rated current	: 38.8/19.4 A	Protection degree	: IP55
L. R. Amperes	: 334/167 A	Cooling method	: IC410 - TENV
LRC	: 8.6x(Code K)	Mounting	: F-1
No load current	: 21.9/10.9 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 1775 rpm	Starting method	: VFD
Slip	: 1.39 %	Approx. weight ³	: 324 lb
Rated torque	: 43.8 ft.lb		
Locked rotor torque	: 340 %		
Breakdown torque	: 415 %		
Insulation class	: H		
Service factor	: 1.00		
Moment of inertia (J)	: B		
Design			

Output	25%	50%	75%	100%	Foundation loads	
Efficiency (%)	90.8	91.0	92.4	92.4	Max. traction	: 709 lb
Power Factor	0.32	0.56	0.69	0.77	Max. compression	: 1034 lb

		Drive end	Non drive end
Bearing type	:	6309 C3	6309 C3
Sealing	:	V'Ring	V'Ring
Lubrication interval	:	20000 h	20000 h
Lubricant amount	:	13 g	13 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		Page Revision 1 / 2		
Checked by				
Date	22/01/2018			

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Thermal protection

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

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Performed by				Page	Revision
Checked by				2 / 2	
Date	22/01/2018				