

DATA SHEET

Single Phase Induction Motor - Squirrel Cage



Customer :

Product line	: W22 Single-Phase				Product code :	14165571
					Catalog # :	00536ES1B184T-W22
Frame	: 182/4T	Locked rotor time	: 10s (cold) 6s (hot)			
Output	: 5 HP (3.7 kW)	Temperature rise	: 80 K			
Poles	: 2	Duty cycle	: Cont.(S1)			
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C			
Rated voltage	: 115/208-230 V	Altitude	: 1000 m.a.s.l.			
Rated current	: 41.1/22.1-20.8 A	Protection degree	: IP55			
L. R. Amperes	: 358/192-181 A	Cooling method	: IC411 - TEFC			
LRC	: 8.7x(Code K)	Mounting	: F-1			
No load current	: 15.0/0.000-7.50 A	Rotation ¹	: Both (CW and CCW)			
Rated speed	: 3515 rpm	Starting method	: Direct On Line			
Slip	: 2.36 %	Approx. weight ³	: 103 lb			
Rated torque	: 7.47 ft.lb					
Locked rotor torque	: 320 %					
Breakdown torque	: 320 %					
Insulation class	: F					
Service factor	: 1.15					
Moment of inertia (J)	: 0.1898 sq.ft.lb					
Output	25%	50%	75%	100%	Foundation loads	
Efficiency (%)	0.000	78.0	82.5	84.0	Max. traction	: 101 lb
Power Factor	0.00	0.78	0.87	0.89	Max. compression	: 204 lb
Bearing type	:	Drive end		Non drive end		
Sealing	:	6207 ZZ		6206 ZZ		
Lubrication interval	:	V'Ring		V'Ring		
Lubricant amount	:	0 h		0 h		
Lubricant type	:	0 g		0 g		
		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						
Date	28/03/2024				Page	Revision
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