

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 11355296

Catalog # : 07536ET3E365TS-W22

Frame	: 364/5TS	Locked rotor time	: 18s (cold) 10s (hot)
Output	: 75 HP (55 kW)	Temperature rise	: 80 K
Poles	: 2	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	: 164/81.9 A	Protection degree	: IP55
L. R. Amperes	: 1097/549 A	Cooling method	: IC411 - TEFC
LRC	: 6.7x(Code G)	Mounting	: F-1
No load current	: 40.0/20.0 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 3555 rpm	Noise level ²	: 79.0 dB(A)
Slip	: 1.25 %	Starting method	: Direct On Line
Rated torque	: 111 ft.lb	Approx. weight ³	: 866 lb
Locked rotor torque	: 200 %		
Breakdown torque	: 250 %		
Insulation class	: F		
Service factor	: 1.25		
Moment of inertia (J)	: 11.9 sq.ft.lb		
Design	: B		

Output	50%	75%	100%
Efficiency (%)	92.4 91.2	93.6 92.5	93.6 94.0
	91.5 91.8	93.0 93.1	94.0 94.0
	92.4 92.4	93.0 93.0	92.4 93.0
	93.0	93.6	93.0
Power Factor	0.83 0.75	0.88 0.85	0.90 0.90
	0.72 0.70	0.83 0.82	0.88 0.88
	0.86 0.84	0.89 0.89	0.90 0.90
	0.83	0.88	0.90

Foundation loads

Max. traction : 664 lb

Max. compression : 1529 lb

Losses at normative operating points (speed;torque), in percentage of rated output power

	P1 (0,9;1,0)	6.4	6.4	6.4	6.4	6.4	6.4
	P2 (0,5;1,0)	4.8	4.8	4.8	4.8	4.8	4.8
	P3 (0,25;1,0)	4.5	4.5	4.5	4.5	4.5	4.5
	P4 (0,9;0,5)	3.2	3.2	3.2	3.2	3.2	3.2
	P5 (0,5;0,5)	1.8	1.8	1.8	1.8	1.8	1.8
	P6 (0,5;0,25)	1.1	1.1	1.1	1.1	1.1	1.1
Losses (%)	P7 (0,25;0,25)	0.6	0.6	0.6	0.6	0.6	0.6

Drive end

Non drive end

Bearing type	:	6314 C3	6314 C3
Sealing	:	WSeal	WSeal
Lubrication interval	:	4000 h	4000 h
Lubricant amount	:	27 g	27 g
Lubricant type	:	Mobil Polyrex EM	

Notes:

This revision replaces and cancel the previous one, which must be eliminated.

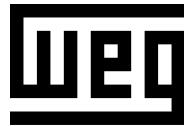
- (1) Looking the motor from the shaft end.
- (2) Measured at 1m and with tolerance of +3dB(A).
- (3) Approximate weight subject to changes after manufacturing process.
- (4) At 100% of full load.

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				
Date	29/03/2024			
			Page	Revision
			1 / 2	

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Thermal protection

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

Rev.	Changes Summary	Performed	Checked	Date

Performed by			Page 2 / 2	Revision
Checked by				
Date	29/03/2024			