

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Super Premium Efficiency Three-Phase

Product code : 11792397

Catalog # : 03018EG3E286T-W22

Frame	: 284/6T	Locked rotor time	: 45s (cold) 25s (hot)
Output	: 30 HP (22 kW)	Temperature rise	: 80 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	: 71.2/35.6 A	Protection degree	: IP55
L. R. Amperes	: 605/303 A	Cooling method	: IC411 - TEFC
LRC	: 8.5x(Code K)	Mounting	: F-1
No load current	: 30.4/15.2 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 1776 rpm	Noise level ²	: 63.0 dB(A)
Slip	: 1.33 %	Starting method	: Direct On Line
Rated torque	: 88.7 ft.lb	Approx. weight ³	: 465 lb
Locked rotor torque	: 300 %		
Breakdown torque	: 340 %		
Insulation class	: F		
Service factor	: 1.25		
Moment of inertia (J)	: 5.67 sq.ft.lb		
Design	: A		

Output	25%		50%		75%		100%		Foundation loads	
Efficiency (%)	92.5	92.2	93.0	92.4	94.1	93.1	94.5	93.1	Max. traction	: 1258 lb
	92.8	92.8	93.0	93.0	93.6	93.6	93.6	93.6		
Power Factor	0.40	0.46	0.64	0.70	0.76	0.81	0.82	0.85	Max. compression	: 1723 lb
	0.43	0.40	0.67	0.64	0.79	0.77	0.84	0.82		

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

Losses (%)	P1 (0,9;1,0)	5.6	7.2	6.6	6.6
	P2 (0,5;1,0)	4.5	5.7	5.3	5.3
	P3 (0,25;1,0)	4.1	5.2	4.8	4.8
	P4 (0,9;0,5)	3.0	3.9	3.6	3.6
	P5 (0,5;0,5)	2.0	2.6	2.4	2.4
	P6 (0,5;0,25)	1.4	1.8	1.7	1.7
	P7 (0,25;0,25)	1.0	1.2	1.1	1.1

		Drive end	Non drive end
Bearing type	:	6311 C3	6211 C3
Sealing	:	V'Ring	V'Ring
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				
Date	29/03/2024			
			Page	Revision
			1 / 1	