

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :								
Product line		: W22 Super Premium Efficiency Three-Phase		Product code :	11792527			
				Catalog # :	15018EG3G445T-W22			
Frame	: 444/5T	Locked rotor time	: 64s (cold) 36s (hot)					
Output	: 150 HP (110 kW)	Temperature rise	: 80 K					
Poles	: 4	Duty cycle	: Cont.(S1)					
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C					
Rated voltage	: 460 V	Altitude	: 1000 m.a.s.l.					
Rated current	: 172 A	Protection degree	: IP55					
L. R. Amperes	: 1582 A	Cooling method	: IC411 - TEFC					
LRC	: 9.2x(Code K)	Mounting	: F-1					
No load current	: 65.0 A	Rotation ¹	: Both (CW and CCW)					
Rated speed	: 1789 rpm	Noise level ²	: 73.0 dB(A)					
Slip	: 0.61 %	Starting method	: Direct On Line					
Rated torque	: 440 ft.lb	Approx. weight ³	: 1926 lb					
Locked rotor torque	: 290 %							
Breakdown torque	: 320 %							
Insulation class	: F							
Service factor	: 1.25							
Moment of inertia (J)	: 73.0 sq.ft.lb							
Design	: A							
Output	25%	50%	75%	100%	Foundation loads			
Efficiency (%)	95.0	95.7	95.4	95.8	96.2	96.2	96.5	96.2
	95.5	95.5	95.8	95.8	96.0	96.2	96.2	96.4
Power Factor	0.44	0.50	0.68	0.74	0.79	0.83	0.83	0.85
	0.47	0.44	0.71	0.68	0.81	0.80	0.85	0.84
Losses at normative operating points (speed;torque), in percentage of rated output power								
Losses (%)	P1 (0,9;1,0)	3.6	3.9	3.9	3.7			
	P2 (0,5;1,0)	2.5	2.7	2.7	2.6			
	P3 (0,25;1,0)	2.0	2.2	2.2	2.0			
	P4 (0,9;0,5)	2.3	2.5	2.5	2.4			
	P5 (0,5;0,5)	1.3	1.4	1.4	1.4			
	P6 (0,5;0,25)	1.0	1.1	1.1	1.1			
	P7 (0,25;0,25)	0.6	0.6	0.6	0.6			
			Drive end	Non drive end				
Bearing type	:	6319 C3	6316 C3					
Sealing	:	WSeal	WSeal					
Lubrication interval	:	8000 h	10000 h					
Lubricant amount	:	45 g	34 g					
Lubricant type	:	Mobil Polyrex EM						
Notes:								
This revision replaces and cancel the previous one, which must be eliminated.			These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA MG-1.					
(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.								
Rev.	Changes Summary			Performed	Checked	Date		
Performed by					Page	Revision		
Checked by								
Date	29/03/2024				1 / 1			