DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer	:						
Product line	: W22 Tru-Metric IE3 Three-Phase		Product code : Catalog # :			16993738 01818ET3E180MF3-W22	
Frame	. 190M		Locked	rotor time	· 21s (co	. 24a (aald) 42a (bat)	
	: 180M : 25 HP (18.5 kW)		Locked rotor time Temperature rise		: 21s (cold) 12s (hot)		
Output					: 80 K		
Poles	: 4		Duty cycle		: S1		
Frequency	: 50 Hz		t temperature	: -20°C to			
Rated voltage	: 380 V	Altitude		: 1000 m	: 1000 m.a.s.l.		
Rated current	: 36.1 A	Protect	on degree	: IP55	: IP55		
L. R. Amperes	: 264 A		method	: IC411 -	: IC411 - TEFC		
LRC	: 7.3	Mountir			: B3T		
No load current	: 14.0 A	Rotatio			: Both (CW and CCW)		
	: 1470 rp				: 61.0 dB(A)		
Rated speed		Noise le					
Slip	: 2.00 %		method		: Direct On Line		
Rated torque	: 89.3 ft.I	b	Approx	. weight³	: 397 lb		
Locked rotor torque	e : 250 %						
Breakdown torque	: 270 %						
Insulation class	: F						
Service factor	: 1.25						
Moment of inertia (_	ft lh					
Design	: N						
Output	25% 50%	75% 100%	Foundation	on loads			
Efficiency (%)	92.1 91.7 92.3 91.8 9				: 1084 lb		
		92.4 93.6					
	0.44 0.37 0.68 0.61 (0.38 0.62 (0.79 0.73 0.84 0.80 0.75 0.81	Max. com	pression	: 1481 lb		
Losses at normative	e operating points (sp	eed;torque), in perce	ntage of ra	ted output powe	r		
	P1 (0,9;1,0)	7.6	7	.5	6.5		
	P2 (0,5;1,0)	5.9	5	.8	5.0		
	P3 (0,25;1,0)	5.3	5	.2	4.5		
Losses (%)	P4 (0,9;0,5)	4.4		.3	3.7		
200000 (70)	P5 (0,5;0,5)	2.8		.8	2.4		
	P6 (0,5;0,25)	2.1		.0	1.8		
	P7 (0,25;0,25)	1.4	1	.3	1.2		
		Drive end	Non drive		ıd		
Bearing type	: 6311 C3			6211 C3	<u> </u>		
Sealing	: V'Ring			V'Ring			
Lubrication interval	· ·			•			
Lubricant amount	5						
Lubricant type	:	IVIO	bil Polyrex	EIVI			
Notes:							
must be eliminated. (1) Looking the mot (2) Measured at 1m (3) Approximate we manufacturing proc	or from the shaft end. and with tolerance of eight subject to change ess.	f +3dB(A).			s based on tests the tolerances sti	with sinusoidal pulated in NEMA	
(4) At 100% of full lo		_					
Rev.	Chanc	jes Summary		Performed	Checked	Date	

Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	26/03/2024			1/1	