DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer	:							
Product line	: W22 Tru-Metric IE3 Three-Phase		Product code : Catalog # :		13035065 01518ET3Y160LFF-W22			
Frame	: 160L		Locked	rotor time	· 32s (cold)) 18s (hot)		
Output			Temperature rise		: 32s (cold) 18s (hot)			
•	: 20 HP (15 kW)				: 80 K			
Poles	: 4		Duty cy		: S1			
Frequency	: 50 Hz			it temperature	: -20°C to -			
Rated voltage	: 380 V		Altitude	;	: 1000 m.a	.s.l.		
Rated current	: 29.4 A		Protect	ion degree	: IP55	: IP55		
L. R. Amperes	: 206 A			method	· IC411 - T	: IC411 - TEFC		
LRC			Mountir		: B35L(E)			
	: 7.0							
No load current	: 11.0 A		Rotatio		: Both (CW and CCW)			
Rated speed	: 1465 rpm		Noise le		: 61.0 dB(A)			
Slip	: 2.33 %))	Starting method		: Direct On Line			
Rated torque : 71.7 ft.lb			. weight³	: 346 lb				
Locked rotor torqu								
Breakdown torque								
Insulation class	: F							
Service factor	: 1.25							
Moment of inertia	(J) : 2.88 s	: 2.88 sq.ft.lb						
Design	: N							
Output	50% 75%	100%	Foundation	on loads				
, ,	92.0 91.4 92.4 9	2.4 92.4 92.4	Max. trac	tion	: 762 lb			
	91.0 91.7	93.0						
			Mark		. 4400 lb			
Power Factor	0.69 0.62 0.79 0		Max. compression		: 1108 lb			
	0.62 0.74	0.81						
l osses at normativ	e operating points (sr	peed;torque), in perce	entage of ra	ited output power				
	P1 (0,9;1,0)	7.8		7.8	7.2			
Losses (%)	P2 (0,5;1,0)	6.0		5.0	5.5			
	P3 (0,25;1,0)	5.4	5	5.4	4.9			
	P4 (0,9;0,5)	4.6	4	.6	4.2			
	P5 (0,5;0,5)	2.9		2.9	2.7			
		2.2		2.2				
	P6 (0,5;0,25)				2.0			
	P7 (0,25;0,25)	1.4	1	.4	1.3			
		Drive end		Non drive end	d			
Bearing type		6309 C3		6209 C3	=			
	•	: V'Ring V'Ring: 20000 h 20000						
Sealing				•				
Lubrication interva	l :							
Lubricant amount	:	13 g		9 g				
Lubricant type	:	Mo	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					
(1) Looking the mot (2) Measured at 1m	tor from the shaft end n and with tolerance o eight subject to chang sess.	of +3dB(A).	MG-1.	, _{FP} , Subject to th	io tororumoo supt	MATOR III INEIVIZ		
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Rev.		Changes Summary	Performed	Checked	Date
Performed by					
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Date	26/03/2024			1/1	