DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer	:							
Product line	: W22 Tru-Metric IE3 Three-Phase		Product code : Catalog # :		16993586 01118ET3E160MF3-W22			
Frame	: 160M		Locked	rotor time	: 25s (cold) 14s (hot)			
Output	: 15 HP		ature rise	: 80 K				
Poles		Duty cy		: S1				
	: 4	Duty Cy	CIE	: -20°C to +40°C				
Frequency	: 50 Hz		t temperature					
Rated voltage	: 380 V	Altitude			: 1000 m.a.s.l.			
Rated current	: 21.5 A		ion degree	: IP55				
L. R. Amperes	: 161 A		method	: IC411 - TEFC				
LRC	: 7.5	Mountir	ng	: B3T				
No load current	: 9.00 A	Rotation	n^{1}	: Both (CW and CCW)				
Rated speed	: 1470 rp	Noise le	evel ²	: 61.0 dB(A)				
Slip	: 2.00 %		method	: Direct On Line				
Rated torque	: 53.6 ft.l	Approx. weight ³ : 271 li			0			
Locked rotor torque			Approx. weight . 27 1 lb					
Breakdown torque								
Insulation class	. 250 % : F							
Service factor	: 1.25	6.11						
Moment of inertia (.ft.lb						
Design	: N							
Output	25% 50%	75% 100%	Foundation	on loade				
• • •	90.8 90.2 91.0 90.4 9		Max. trac	tion	: 658 lb			
	88.6 89.5	91.7 92.4						
Power Factor	0.43 0.37 0.69 0.62 0.79 0.74 0.85 0.81		Max. com	pression	: 929 lb			
	0.38 0.63	0.75 0.82						
Lacaca at marmative	ting points (an		-t	tad autout naucon				
Losses at normative	e operating points (sp							
	P1 (0,9;1,0)	9.0		.0	7.9			
	P2 (0,5;1,0)	7.3		7.3	6.4			
	P3 (0,25;1,0)	6.9	6	.9	6.0			
Losses (%)	P4 (0,9;0,5)	5.2	5	5.2	4.6			
	P5 (0,5;0,5)	3.5	3	.5	3.1			
	P6 (0,5;0,25)	2.6		2.6	2.3			
	P7 (0,25;0,25)	1.9		.9	1.6			
	F7 (0,25,0,25)		I					
		Drive end		Non drive end	<u>d</u>			
Bearing type	:	6309 C3		6209 C3				
Sealing	:	V'Ring	V'Ring					
Lubrication interval	:	20000 h		20000 h				
Lubricant amount	:	13 g	9 g					
Lubricant type	:	_	obil 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.	Chang	jes Summary		Performed	Checked	Date		
		· · · · · · · · · · · · · · · · · · ·			+			

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