DATA SHEET

Checked by

Date

26/03/2024

Three Phase Induction Motor - Squirrel Cage



Frame Output Poles Frequency Rated voltage	· W22 Tru-Metric						
Output Poles Frequency	: W22 Tru-Metric IE3 Three-Phase		Product code : Catalog # :		16993562 00409ET3E160MF3-W22		
Output Poles Frequency	: 160M		Locked rotor time		: 61s (cold) 34s (hot)		
Poles Frequency	: 5.5 HP (4 kW)		Temperature rise		: 80 K		
Frequency	: 8		Duty cycle		: S1		
	. 6 : 50 Hz		Ambient temperature		: -20°C to +40°C		
						: 1000 m.a.s.l.	
	: 380 V		Altitude			a.s.l.	
Rated current	: 9.54 A			ion degree	: IP55		
L. R. Amperes	: 47.7 A			method	: IC411 - T	EFC	
LRC	: 5.0		Mountir		: B3T		
No load current	: 5.20 A		Rotation ¹		: Both (CW and CCW)		
Rated speed	: 725 rpm		Noise level ²		: 51.0 dB(A)		
Slip	: 3.33 %		Starting method		: Direct On Line		
Rated torque	: 39.8 ft.lb		Approx. weight ³		: 251 lb		
Locked rotor torque			7 100.000		0 0		
Breakdown torque							
Insulation class	: F						
Service factor	: 1.25	6.11.					
Moment of inertia (.ft.lb					
Design	: N						
Ott	050/ 500/	750/ 4000/					
<u> </u>		75% 100%	Foundation				
Efficiency (%)	85.9 83.9 85.6 84.4 8	86.8 86.6 86.1 86.8	Max. traction		: 348 lb		
	83.7 84.0	86.5 86.5					
Power Factor	0.33 0.28 0.56 0.49 0.68 0.62 0.74 0.70		Max. com	pression	: 600 lb		
	0.28 0.49	0.62 0.69		•			
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Losses at normative	e operating points (sp						
Losses (%)	P1 (0,9;1,0)	15.5		4.6	15.0		
	P2 (0,5;1,0)	13.3	12	2.5	12.9		
	P3 (0,25;1,0)	13.3	12	2.5	12.8		
	P4 (0,9;0,5)	9.2	8	.6	8.9		
	P5 (0,5;0,5)	6.9		5.5	6.6		
	P6 (0,5;0,25)	5.5		5.1	5.3		
	P7 (0,25;0,25)	4.3		.0	4.1		
	17 (0,23,0,23)						
	ubrication interval : 20000 h		<u>Non drive end</u> 6209 C3 V'Ring 20000 h		<u>l</u>		
Sealing							
Lubrication interva							
Lubricant amount				9 g			
Lubricant type : Mobil Polyrex EM							
<u> </u>							
Notes:							
This revision replace must be eliminated. (1) Looking the mot (2) Measured at 1m	tor from the shaft end. In and with tolerance of eight subject to change eess.	f +3dB(A).		re average values			
This revision replacemust be eliminated. (1) Looking the mot (2) Measured at 1m (3) Approximate we manufacturing proc. (4) At 100% of full lives.	tor from the shaft end. In and with tolerance of eight subject to change ess. In and with tolerance of	f +3dB(A). es after	power su	ipply, subject to th	ne tolerances stip	ulated in NEMA	
This revision replacemust be eliminated. (1) Looking the mot (2) Measured at 1m (3) Approximate we manufacturing process.	tor from the shaft end. In and with tolerance of eight subject to change ess. In and with tolerance of	f +3dB(A).	power su				

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Revision