

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :						
Product line		: W22 Tru-Metric IE3 Three-Phase		Product code :		16993586
				Catalog # :		01118ET3E160MF3-W22
Frame	:	160M			Locked rotor time	: 25s (cold) 14s (hot)
Output	:	15 HP (11 kW)			Temperature rise	: 80 K
Poles	:	4			Duty cycle	: S1
Frequency	:	50 Hz			Ambient temperature	: -20°C to +40°C
Rated voltage	:	380 V			Altitude	: 1000 m.a.s.l.
Rated current	:	21.5 A			Protection degree	: IP55
L. R. Amperes	:	161 A			Cooling method	: IC411 - TEFC
LRC	:	7.5			Mounting	: B3T
No load current	:	9.00 A			Rotation ¹	: Both (CW and CCW)
Rated speed	:	1470 rpm			Noise level ²	: 61.0 dB(A)
Slip	:	2.00 %			Starting method	: Direct On Line
Rated torque	:	7.41 kgfm			Approx. weight ³	: 139 kg
Locked rotor torque	:	220 %				
Breakdown torque	:	250 %				
Insulation class	:	F				
Service factor	:	1.25				
Moment of inertia (J)	:	0.1004 kgm ²				
Design	:	N				
Output	25%	50%	75%	100%	Foundation loads	
Efficiency (%)	90.8	91.0	91.4	91.4	Max. traction	: 248 kgf
Power Factor	0.43	0.69	0.79	0.85	Max. compression	: 387 kgf
Losses at normative operating points (speed;torque), in percentage of rated output power						
P1 (0,9;1,0)	P2 (0,5;1,0)	P3 (0,25;1,0)	P4 (0,9;0,5)	P5 (0,5;0,5)	P6 (0,5;0,25)	P7 (0,25;0,25)
9.0	7.3	6.9	5.2	3.5	2.6	1.9
		<u>Drive end</u>		<u>Non drive end</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	:	Mobil 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.	Changes Summary			Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	04/11/2025				1 / 1	