

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :						
Product line		: W22 Tru-Metric IE4 Three-Phase		Product code :		17297338
				Catalog # :		07536EG3Y280S/M-W22
Frame	:	280S/M			Locked rotor time	: 54s (cold) 30s (hot)
Output	:	100 HP (75 kW)			Temperature rise	: 80 K
Poles	:	2			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	:	134 A			Protection degree	: IP55
L. R. Amperes	:	831 A			Cooling method	: IC411 - TEFC
LRC	:	6.2			Mounting	: B3L(E)
No load current	:	31.0 A			Rotation ¹	: Both (CW and CCW)
Rated speed	:	2970 rpm			Noise level ²	: 77.0 dB(A)
Slip	:	1.00 %			Starting method	: Direct On Line
Rated torque	:	24.4 kgfm			Approx. weight ³	: 725 kg
Locked rotor torque	:	200 %				
Breakdown torque	:	260 %				
Insulation class	:	F				
Service factor	:	1.00				
Moment of inertia (J)	:	1.07 kgm ²				
Design	:	NE				
Output	25%	50%	75%	100%	Foundation loads	
Efficiency (%)	0.000	94.8	95.1	95.6	Max. traction	: 205 kgf
Power Factor	0.00	0.82	0.87	0.89	Max. compression	: 930 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)
4.2	3.0	2.6	2.3	1.2	0.8	0.4
		<u>Drive end</u>		<u>Non drive end</u>		
Bearing type	:	6314 C3		6314 C3		
Sealing	:	WSeal		WSeal		
Lubrication interval	:	4000 h		4000 h		
Lubricant amount	:	27 g		27 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	