

# DATA SHEET



## Three Phase Induction Motor - Squirrel Cage

Customer :					
Product line	: W22 IEEE 841 NEMA Premium Efficiency Three-Phase	Product code :	13337942		
		Catalog # :	15009ST3QIERB447T-W2		
Frame	: 445/7T	Locked rotor time	: 27s (cold) 15s (hot)		
Output	: 150 HP (110 kW)	Temperature rise	: 80 K		
Poles	: 8	Duty cycle	: Cont.(S1)		
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C		
Rated voltage	: 460 V	Altitude	: 1000 m.a.s.l.		
Rated current	: 185 A	Protection degree	: IP56		
L. R. Amperes	: 1110 A	Cooling method	: IC411 - TEFC		
LRC	: 6.0x(Code G)	Mounting	: F-1		
No load current	: 75.0 A	Rotation <sup>1</sup>	: Both (CW and CCW)		
Rated speed	: 890 rpm	Noise level <sup>2</sup>	: 63.0 dB(A)		
Slip	: 1.11 %	Starting method	: Direct On Line		
Rated torque	: 885 ft.lb	Approx. weight <sup>3</sup>	: 2221 lb		
Locked rotor torque	: 190 %				
Breakdown torque	: 210 %				
Insulation class	: F				
Service factor	: 1.15				
Moment of inertia (J)	: 125 sq.ft.lb				
Design	: B				
Output	25%    50%    75%    100%	Foundation loads			
Efficiency (%)	94.4 94.9 94.5 94.5 94.5 94.1 94.5 93.6 94.0 93.5 94.1 93.6 94.1 94.1 94.1 94.1	Max. traction	: 4801 lb		
Power Factor	0.40 0.40 0.64 0.65 0.74 0.75 0.79 0.80 0.37 0.34 0.61 0.57 0.72 0.69 0.78 0.76	Max. compression	: 7022 lb		
Losses at normative operating points (speed;torque), in percentage of rated output power					
Losses (%)	P1 (0,9;1,0)	5.9	5.9	5.9	5.9
	P2 (0,5;1,0)	4.8	4.8	4.8	4.8
	P3 (0,25;1,0)	4.4	4.4	4.4	4.4
	P4 (0,9;0,5)	2.9	2.9	2.9	2.9
	P5 (0,5;0,5)	2.0	2.0	2.0	2.0
	P6 (0,5;0,25)	1.4	1.4	1.4	1.4
	P7 (0,25;0,25)	1.0	1.0	1.0	1.0
Bearing type	:	Drive end NU-319 C3	Non drive end 6316 C3		
Sealing	:	Inpro/Seal	Inpro/Seal		
Lubrication interval	:	15000 h	20000 h		
Lubricant amount	:	45 g	34 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	25/03/2024			1 / 1	