

# DATA SHEET



## Three Phase Induction Motor - Squirrel Cage

Customer :						
Product line	: W22 NEMA Premium Efficiency Three-Phase	Product code :	11165330			
		Catalog # :	25018ET3H447T-W22			
Frame	: 445/7T	Locked rotor time	: 27s (cold) 15s (hot)			
Output	: 250 HP (185 kW)	Temperature rise	: 80 K			
Poles	: 4	Duty cycle	: Cont.(S1)			
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C			
Rated voltage	: 575 V	Altitude	: 1000 m.a.s.l.			
Rated current	: 225 A	Protection degree	: IP55			
L. R. Amperes	: 1461 A	Cooling method	: IC411 - TEFC			
LRC	: 6.5x(Code G)	Mounting	: F-1			
No load current	: 72.0 A	Rotation <sup>1</sup>	: Both (CW and CCW)			
Rated speed	: 1780 rpm	Noise level <sup>2</sup>	: 73.0 dB(A)			
Slip	: 1.11 %	Starting method	: Direct On Line			
Rated torque	: 738 ft.lb	Approx. weight <sup>3</sup>	: 2556 lb			
Locked rotor torque	: 229 %					
Breakdown torque	: 240 %					
Insulation class	: F					
Service factor	: 1.15					
Moment of inertia (J)	: 89.6 sq.ft.lb					
Design	: B					
Output	50%	75%	100%			
Efficiency (%)	95.8	96.2	96.2			
Power Factor	0.75	0.83	0.86			
Foundation loads		Max. traction	: 3441 lb			
		Max. compression	: 5997 lb			
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	3.5	3.1	2.1	1.5	1.0	0.6
		<u>Drive end</u>	<u>Non drive end</u>			
Bearing type	:	6319 C3	6316 C3			
Sealing	:	WSeal	WSeal			
Lubrication interval	:	8000 h	10000 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	28/03/2024				1 / 1	