

# DATA SHEET

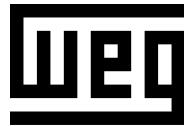
## Three Phase Induction Motor - Squirrel Cage



Customer :									
Product line	: W21 Explosion Proof NEMA Premium Efficiency Three-Phase		Product code :	14356574					
			Catalog # :	30012XT3G449T					
Frame	: 449T	Locked rotor time	: 12s (cold) 7s (hot)						
Output	: 300 HP (220 kW)	Temperature rise	: 80 K						
Poles	: 6	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	: 351 A	Protection degree	: IP55						
L. R. Amperes	: 2773 A	Cooling method	: IC411 - TEFC						
LRC	: 7.9x(Code J)	Mounting	: F-1						
No load current	: 152 A	Rotation <sup>1</sup>	: Both (CW and CCW)						
Rated speed	: 1190 rpm	Noise level <sup>2</sup>	: 70.0 dB(A)						
Slip	: 0.83 %	Starting method	: Direct On Line						
Rated torque	: 1320 ft.lb	Approx. weight <sup>3</sup>	: 3278 lb						
Locked rotor torque	: 280 %								
Breakdown torque	: 300 %								
Insulation class	: F								
Service factor	: 1.00								
Moment of inertia (J)	: 145 sq.ft.lb								
Design	: A								
Output	25%	50%	75%	100%					
Efficiency (%)	94.5	94.0	95.0	94.1					
	93.9	94.0	94.1	94.1					
Power Factor	0.41	0.42	0.66	0.67					
	0.37	0.34	0.62	0.58					
Foundation loads									
	Max. traction		: 11088 lb						
	Max. compression		: 14366 lb						
Drive end									
Bearing type	:	6322 C3	Non drive end						
Sealing	:	Viton Oil Seal	6319 C3						
Lubrication interval	:	9212 h	Viton Seal						
Lubricant amount	:	60 g	11094 h						
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					
Performed by									
Checked by									
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Customer :

### Thermal protection

ID	Application	Type	Quantity	Sensing Temperature
1	Winding	Thermostat - 2 wires	1 x Phase	155 °C

Rev.	Changes Summary	Performed	Checked	Date

Performed by			Page 2 / 2	Revision
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Date	28/03/2024			