

DATA SHEET

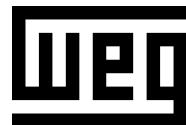
Three Phase Induction Motor - Squirrel Cage



Customer :													
Product line	: W22 Cooling Tower NEMA Premium Efficiency Three-Phase			Product code :	11976619								
				Catalog # :	07512ET3ECT405T-W22								
Frame	: 404/5T	Locked rotor time	: 30s (cold) 17s (hot)										
Output	: 75 HP (55 kW)	Temperature rise	: 80 K										
Poles	: 6	Duty cycle	: Cont.(S1)										
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C										
Rated voltage	: 230/460 V	Altitude	: 1000 m.a.s.l.										
Rated current	: 170/84.9 A	Protection degree	: IP55										
L. R. Amperes	: 1087/543 A	Cooling method	: IC411 - TEFC										
LRC	: 6.4x(Code G)	Mounting	: F-2										
No load current	: 60.0/30.0 A	Rotation ¹	: Both (CW and CCW)										
Rated speed	: 1184 rpm	Noise level ²	: 68.0 dB(A)										
Slip	: 1.33 %	Starting method	: Direct On Line										
Rated torque	: 333 ft.lb	Approx. weight ³	: 1209 lb										
Locked rotor torque	: 229 %												
Breakdown torque	: 229 %												
Insulation class	: F												
Service factor	: 1.25												
Moment of inertia (J)	: 40.2 sq.ft.lb												
Design	: B												
Output	25%	50%	75%	100%	Foundation loads								
Efficiency (%)	94.0	93.3	94.1	93.5	94.5	94.0	94.5						
	93.3	93.3	93.5	93.5	94.0	94.0	94.1						
	91.4	92.0	91.8	92.4	92.2	92.8	92.4						
	92.1	92.4	92.8	93.0									
Power Factor	0.49	0.44	0.74	0.66	0.83	0.79	0.86						
	0.40	0.38	0.62	0.60	0.75	0.74	0.83						
	0.55	0.51	0.79	0.76	0.85	0.84	0.87						
	0.49	0.74	0.83	0.86									
Losses at normative operating points (speed/torque), in percentage of rated output power													
Losses (%)	P1 (0,9;1,0)	6.3	6.8	6.8	6.8	9.0	8.2	8.2					
	P2 (0,5;1,0)	5.0	5.5	5.5	5.5	7.6	6.8	6.8					
	P3 (0,25;1,0)	4.5	4.9	4.9	4.9	7.0	6.3	6.3					
	P4 (0,9;0,5)	3.5	3.7	3.7	3.7	4.7	4.4	4.4					
	P5 (0,5;0,5)	2.3	2.5	2.5	2.5	3.3	3.0	3.0					
	P6 (0,5;0,25)	1.7	1.8	1.8	1.8	2.4	2.2	2.2					
	P7 (0,25;0,25)	1.1	1.2	1.2	1.2	1.6	1.5	1.5					
Drive end				Non drive end									
Bearing type	: 6316 2RS C3	6314 2RS C3											
Sealing	: WSeal	WSeal											
Lubrication interval	: -	-											
Lubricant amount	: -	-											
Lubricant type	: POLYREA ESTER OIL (WT/ ENS)												
Notes:													
This revision replaces and cancel the previous one, which must be eliminated.				These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA MG-1.									
(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.													
Rev.	Changes Summary			Performed	Checked	Date							
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		28/03/2024											
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Customer :

Space heater information

Voltage: 110-127/200-240 V

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