

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :				
Product line	: Rolled Steel NEMA Premium Efficiency Three-Phase			
Product code :	13186495			
Catalog # :	01012ET3E256TC-S			
Frame	: 254/6TC			
Insulation class	: F			
Duty cycle	: Cont.(S1)			
Ambient temperature	: -20°C to +40°C			
Altitude	: 1000 m.a.s.l.			
Protection degree	: IP55			
Design	: B			
Cooling method	: IC411 - TEFC			
Mounting	: F-1			
Rotation ¹	: Both (CW and CCW)			
Starting method	: Direct On Line			
Approx. weight ²	: 255 lb			
Moment of inertia (J)	: 2.83 sq.ft.lb			
Output [HP]	10	7.5	7.5	
Poles	6	6	6	
Frequency [Hz]	60	50	50	
Rated voltage [V]	208-230/460	190/380	220/415	
Rated current [A]	30.5-27.6/13.8	25.0/12.5	23.4/12.4	
L. R. Amperes [A]	165-149/74.5	138/68.7	147/78.1	
LRC [A]	5.4x(Code G)	5.5x(Code G)	6.3x(Code J)	
No load current [A]	12.3-14.2/7.12	14.1/7.03	15.1/8.03	
Rated speed [RPM]	1175	975	980	
Slip [%]	2.08	2.50	2.00	
Rated torque [ft.lb]	44.1	39.9	39.6	
Locked rotor torque [%]	210	210	270	
Breakdown torque [%]	229	250	310	
Service factor	1.15	1.15	1.15	
Temperature rise	80 K	80 K	80 K	
Locked rotor time	54s (cold) 30s (hot)	0s (cold) 0s (hot)	0s (cold) 0s (hot)	
Noise level ²	59.0 dB(A)	57.0 dB(A)	57.0 dB(A)	
Efficiency (%)	25%			
	50%	90.2	89.5	
	75%	91.0	90.5	
	100%	91.0	90.2	
Power Factor	25%			
	50%	0.57	0.54	
	75%	0.69	0.66	
	100%	0.75	0.74	
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). (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	24/01/2018		1 /	