

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :								
Product line	: W22 NEMA Premium Efficiency Three-Phase	Product code :	13588683					
		Catalog # :	00136ET3EPM143/5Y-W2					
Frame	: 145YZ	Cooling method	: IC410 - TEAO					
Insulation class	: F	Mounting	: F-1					
Duty cycle	: Cont.(S1)	Rotation ¹	: Both (CW and CCW)					
Ambient temperature	: -20°C to +40°C	Starting method	: Direct On Line					
Altitude	: 1000 m.a.s.l.	Approx. weight ²	: 39.7 lb					
Protection degree	: IP55	Moment of inertia (J)	: 0.0332 sq.ft.lb					
Output [HP]	1	0.75	0.75	0.75	1	1	1	
Poles	2	2	2	2	2	2	2	
Frequency [Hz]	60	50	50	50	50	50	50	
Rated voltage [V]	208-230/460	380	400	415	380	400	415	
Rated current [A]	3.16-2.88/1.44	1.26	1.29	1.29	1.67	1.60	1.58	
L. R. Amperes [A]	25.9-23.6/11.8	10.3	11.2	11.9	10.5	11.0	11.7	
LRC [A]	8.2x(Code L)	8.2x(Code L)	8.7x(Code M)	9.2x(Code N)	6.3x(Code H)	6.9x(Code J)	7.4x(Code K)	
No load current [A]	1.12-1.30/0.650	0.660	0.720	0.780	0.660	0.720	0.780	
Rated speed [RPM]	3480	2900	2910	2920	2840	2865	2875	
Slip [%]	3.33	3.33	3.00	2.67	5.33	4.50	4.17	
Rated torque [ft.lb]	1.49	1.34	1.34	1.33	1.82	1.81	1.80	
Locked rotor torque [%]	280	300	340	360	220	250	270	
Breakdown torque [%]	340	340	380	420	250	280	310	
Service factor	1.25	1.25	1.25	1.25	1.25	1.25	1.25	
Temperature rise	80 K	80 K	80 K	80 K	80 K	80 K	80 K	
Locked rotor time	39s (cold) 22s (hot)	27s (cold) 15s (hot)	27s (cold) 15s (hot)	27s (cold) 15s (hot)	27s (cold) 15s (hot)	27s (cold) 15s (hot)	27s (cold) 15s (hot)	
Noise level ²	68.0 dB(A)							
Efficiency (%)	25%	72.6	71.4	70.7	70.0	76.6	76.6	76.6
	50%	75.0	72.9	72.3	71.7	77.0	77.0	77.0
	75%	79.0	77.6	77.6	77.6	78.5	78.5	78.5
	100%	81.5	78.9	79.0	79.2	78.5	78.5	78.5
Power Factor	25%	0.40	0.40	0.35	0.32	0.48	0.43	0.40
	50%	0.63	0.66	0.59	0.55	0.74	0.70	0.67
	75%	0.74	0.77	0.70	0.67	0.84	0.81	0.78
	100%	0.80	0.84	0.78	0.75	0.87	0.86	0.84
Bearing type	: Drive end : 6205 ZZ	Non drive end : 6204 ZZ	Foundation loads					
Sealing	: V'Ring	V'Ring	Max. traction : 29 lb					
Lubrication interval	: -	-	Max. compression : 69 lb					
Lubricant amount	: -	-						
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	23/01/2018					1 / 1		