

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IEEE 841 NEMA Premium Efficiency Three-Phase Product code : 11447424

Frame	: 143/5T	Locked rotor time	: 50s (cold) 28s (hot)
Output	: 1 HP (0.75 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	: 1.73 A	Protection degree	: IP56
L. R. Amperes	: 10.7 A	Cooling method	: IC411 - TEFC
LRC	: 6.2x(Code K)	Mounting	: F-1
No load current	: 1.10 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 1160 rpm	Noise level ²	: 50.0 dB(A)
Slip	: 3.33 %	Starting method	: Direct On Line
Rated torque	: 4.53 ft.lb	Approx. weight ³	: 59.1 lb
Locked rotor torque	: 260 %		
Breakdown torque	: 300 %		
Insulation class	: F		
Service factor	: 1.25		
Moment of inertia (J)	: 0.1595 sq.ft.lb		
Design	: B		

Output	25%	50%	75%	100%	Foundation loads					
Efficiency (%)	76.0	73.6	77.0	74.8	82.0	78.4	82.5	79.3	Max. traction	: 105 lb
	71.6	68.6	73.2	70.7	77.5	75.8	78.9	77.9		
	77.6	76.1	77.0	75.5	80.0	80.0	78.5	78.5		
	73.4		74.0		78.5		78.5			
Power Factor	0.26	0.25	0.45	0.44	0.57	0.57	0.66	0.66	Max. compression	: 164 lb
	0.23	0.21	0.41	0.38	0.53	0.50	0.62	0.59		
	0.31	0.28	0.53	0.49	0.66	0.62	0.74	0.71		
	0.26		0.46		0.59		0.68			

Losses at normative operating points (speed;torque), in percentage of rated output power

Losses (%)	P1 (0,9;1,0)							
	P2 (0,5;1,0)	20.0	20.0	20.0	20.0	20.0	20.0	20.0
	P3 (0,25;1,0)	16.7	16.7	16.7	16.7	16.7	16.7	16.7
	P4 (0,9;0,5)	16.9	16.9	16.9	16.9	16.9	16.9	16.9
	P5 (0,5;0,5)	12.6	12.6	12.6	12.6	12.6	12.6	12.6
	P6 (0,5;0,25)	9.2	9.2	9.2	9.2	9.2	9.2	9.2
	P7 (0,25;0,25)	7.6	7.6	7.6	7.6	7.6	7.6	7.6
		5.8	5.8	5.8	5.8	5.8	5.8	5.8

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6205 2RS C3	6204 2RS C3
Sealing	:	Inpro/Seal	Inpro/Seal
Lubrication interval	:	-	-
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				
Date	29/03/2024			

Page 1 / 1
Revision