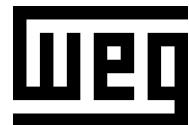


DATA SHEET

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%			
Efficiency (%)	76.0	73.6	77.0	74.8	82.0 78.4 82.5 79.3		
	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		
	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)	20.0	20.0	20.0	20.0	20.0	20.0
	P2 (0,5;1,0)	16.7	16.7	16.7	16.7	16.7	16.7
	P3 (0,25;1,0)	16.9	16.9	16.9	16.9	16.9	16.9
	P4 (0,9;0,5)	12.6	12.6	12.6	12.6	12.6	12.6
	P5 (0,5;0,5)	9.2	9.2	9.2	9.2	9.2	9.2
	P6 (0,5;0,25)	7.6	7.6	7.6	7.6	7.6	7.6
	P7 (0,25;0,25)	5.8	5.8	5.8	5.8	5.8	5.8
			Drive end		Non drive end		
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.			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	
Performed by							
Checked by							
Date	29/03/2024				Page	Revision	
					1 / 1		