

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase Product code : 11441798
Catalog # : HT020402NPW22

Frame	: 254/6T	Locked rotor time	: 25s (cold) 14s (hot)
Output	: 20 HP (15 kW)	Temperature rise	: 80 K
Frequency	: 60 Hz	Duty cycle	: Cont.(S1)
Rated voltage	: 230/460 V	Ambient temperature	: -20°C to +40°C
Poles	: 2	Altitude	: 1000 m.a.s.l.
Rated current	: 46.5/23.3 A	Protection degree	: IP55
	: 6.1x(Code G)	Cooling method	: IC411 - TEFC
Rated speed	: 3530 rpm	Mounting	: F-1
Rated torque	: 29.8 ft.lb	Rotation ¹	: Both (CW and CCW)
Insulation class	: F	Noise level ²	: 72.0 dB(A)
Service factor	: 1.25	Starting method	: Direct On Line
Moment of inertia (J)	: 1.54 sq.ft.lb	Approx. weight ³	: 269 lb
Design	: B		

Output	25%	50%	75%	100%	Foundation loads				
Efficiency (%)	0.000	90.7	90.6	91.0	90.9	91.0	91.2	Max. traction	: 251 lb
		90.4	89.8	91.2	91.1	91.2	91.2		
		87.2	89.2	87.5	89.5	87.5	89.5		
		89.2		89.5		89.5			
Power Factor	0.00	0.79	0.78	0.86	0.86	0.89	0.89	Max. compression	: 543 lb
		0.75	0.73	0.84	0.83	0.88	0.87		
		0.85	0.82	0.89	0.88	0.90	0.89		
		0.80		0.87		0.89			

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

Losses (%)	P1 (0,9;1,0)	9.5	9.3	9.3	9.3	13.8	11.3	11.3
	P2 (0,5;1,0)	7.9	7.7	7.7	7.7	11.4	9.4	9.4
	P3 (0,25;1,0)	7.3	7.2	7.2	7.2	10.6	8.7	8.7
	P4 (0,9;0,5)	4.4	4.3	4.3	4.3	6.3	5.2	5.2
	P5 (0,5;0,5)	2.7	2.6	2.6	2.6	3.9	3.2	3.2
	P6 (0,5;0,25)	1.5	1.5	1.5	1.5	2.2	1.8	1.8
	P7 (0,25;0,25)	1.0	0.9	0.9	0.9	1.4	1.1	1.1

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6309 C3	6209 C3
Sealing	:	V'Ring	V'Ring
Lubrication interval	:	19000 h	20000 h
Lubricant amount	:	13 g	9 g
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.

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	23/06/2026		Page 1 / 2	Revision

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Rev.	Changes Summary		Performed	Checked	Date
Performed by				Page 2 / 2	Revision
Checked by					
Date	23/06/2026				

