DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer :

Product line	: W22 Close Coupled Pump JP NEMA Premium Efficiency Three-Phase	Product code :	12377085

Frame	: 284/6JP	Locked rotor time	: 21s (cold) 12s (hot)
Output	: 20 HP (15 kW)	Temperature rise	: 80 K
Poles	: 6	Duty cycle	: Cont.(S1)
Frequency	: 50 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 380 V	Altitude	: 1000 m.a.s.l.
Rated current	: 29.9 A	Protection degree	: IP55
L. R. Amperes	: 141 A	Cooling method	: IC411 - TEFC
LRC	: 4.7x(Code E)	Mounting	: F-1
No load current	: 9.40 A	Rotation[1]	: Both (CW and CCW)
Rated speed	: 965 rpm	Noise level[2]	: 56.0 dB(A)
Slip	: 3.50 %	Vibration	: A
Rated torque	: 15 kgfm	Starting method	: Direct On Line
Locked rotor torque	: 170 %	Approx. weight[3]	: 193 kg
Breakdown torque	: 200 %	Painting plan	: 203A (ISO 12944 - C3)
Insulation class	: F	Color	: RAL 5009
Service factor	: 1.00	Design	: B
Moment of inertia (J)	: 0.3861 kgm²		

Output	25%	50%	75%	100%
Efficiency (%)	0.000	90.2	90.2	88.5
Power Factor	0.00	0.76	0.83	0.86

Foundation loads

Max. traction	: 363 kgf
Max. compression	: 556 kgf

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

P1 (0,9;1,0)	P2 (0,5;1,0)	P3 (0,25;1,0)	P4 (0,9;0,5)	P5 (0,5;0,5)	P6 (0,5;0,25)	P7 (0,25;0,25)
8.1	6.7	6.6	4.4	3.0	2.2	1.6

		Drive end	Non drive end
Bearing type	:	6311 C3	6211 C3
Sealing	:	V'Ring	V'Ring
Lubrication interval	:	20000 h	20000 h
Lubricant amount	:	18 g	11 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.
(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	26/09/2026		1 / 1	

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