

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :					
Product line		: W21 Explosion Proof NEMA Premium Efficiency Three-Phase		Product code : 14284619	
Frame	: L215TC	Cooling method	: IC411 - TEFC		
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 ³	: 104 kg		
Protection degree	: IP55	Moment of inertia (J)	: 0.0563 kgm ²		
Design	: B				
Output [HP]	10		10		
Poles	4		4		
Frequency [Hz]	50		60		
Rated voltage [V]	380		208-230/460		
Rated current [A]	15.3		28.0-25.3/12.7		
L. R. Amperes [A]	87.2		182-164/82.5		
LRC [A]	5.7x(Code G)		6.5x(Code H)		
No load current [A]	5.30		9.48-11.0/5.50		
Rated speed [RPM]	1450		1765		
Slip [%]	3.33		1.94		
Rated torque [kgfm]	5.01		4.11		
Locked rotor torque [%]	165		210		
Breakdown torque [%]	220		270		
Service factor	1.00		1.15		
Temperature rise	80 K		80 K		
Locked rotor time	36s (cold) 20s (hot)		27s (cold) 15s (hot)		
Noise level ²	56.0 dB(A)		58.0 dB(A)		
Efficiency (%)	25%	0.000	0.000		
	50%	90.2	90.2		
	75%	89.5	91.0		
	100%	88.5	91.7		
Power Factor	25%	0.00	0.00		
	50%	0.70	0.62		
	75%	0.80	0.75		
	100%	0.84	0.81		
Bearing type	: <u>Drive end</u> 6308 2RS <u>Non drive end</u> 6207 2RS	Foundation loads			
Sealing	: Oil Seal Lip Seal	Max. traction	: 153 kgf		
Lubrication interval	: 0 h 0 h	Max. compression	: 257 kgf		
Lubricant amount	: 0 g 0 g				
Lubricant type	: Mobil Polyrex EM				
Notes					
<p>This revision replaces and cancel the previous one, which must be eliminated.</p> <p>(1) Looking the motor from the shaft end.</p> <p>(2) Measured at 1m and with tolerance of +3dB(A).</p> <p>(3) Approximate weight subject to changes after manufacturing process.</p> <p>(4) At 100% of full load.</p>			<p>These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA MG-1.</p>		
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Thermal protection

ID	Application	Type	Quantity	Sensing Temperature
1	Winding	Thermostat - 2 wires	1 x Phase	155 °C

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