

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :										
Product line		: Rolled Steel NEMA Premium Efficiency Three-Phase		Product code :	12751141					
				Catalog # :	00518OT3E184T-SG					
Frame	: 182/4T			Locked rotor time	: 21s (cold) 12s (hot)					
Output	: 5 HP (3.7 kW)			Temperature rise	: 80 K					
Poles	: 4			Duty cycle	: Cont.(S1)					
Frequency	: 60 Hz			Ambient temperature	: -20°C to +40°C					
Rated voltage	: 230/460 V			Altitude	: 1000 m.a.s.l.					
Rated current	: 12.7/6.33 A			Cooling method	: IC01 - ODP					
L. R. Amperes	: 91.2/45.6 A			Mounting	: F-1					
LRC	: 7.2x(Code J)			Rotation ¹	: Both (CW and CCW)					
No load current	: 6.29/3.15 A			Noise level ²	: 55.0 dB(A)					
Rated speed	: 1760 rpm			Starting method	: Direct On Line					
Slip	: 2.22 %			Approx. weight ³	: 36.3 kg					
Rated torque	: 2.06 kgfm									
Locked rotor torque	: 200 %									
Breakdown torque	: 310 %									
Insulation class	: F									
Service factor	: 1.15									
Moment of inertia (J)	: 0.0169 kgm ²									
Design	: B									
Output	25%	50%	75%	100%	Foundation loads					
Efficiency (%)	87.5	90.4	88.5	88.2	88.5	87.3	89.5	84.8	Max. traction	: 123 kgf
	88.4		87.5		87.7		86.4			
Power Factor	0.38	0.44	0.63	0.71	0.76	0.82	0.82	0.86	Max. compression	: 159 kgf
	0.37		0.64		0.76		0.83			
Bearing type	:	<u>Drive end</u>		<u>Non drive end</u>						
Sealing	:	6206 ZZ		6205 ZZ						
Lubrication interval	:	Without Bearing Seal		Without Bearing Seal						
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	31/10/2023				Page	Revision				
					1 / 1					