

42M Series Reversible Synchronous motors

Features:

- AC Voltage 24/ 120/ 230V
- Reversible
- Speed 250/ 300 rpm
- Sintered bronze sleeve bearings



Motor data

Motor order number	1783-42M250C3A	1783-42M250C5A	1783-42M250C7A	1783-42M300C3A	1783-42M300C5A	1783-42M300C7A
AC Operating Voltage	24	120	230	24	120	230
Frequency (Hz)	50	50	50	60	60	60
Speed (Rpm)	250	250	250	300	300	300
Direction of rotation	Reversible	Reversible	Reversible	Reversible	Reversible	Reversible
Synchronous Torque (mNm)	35.66	40.82	38.63	35.66	40.82	38.63
Capacitor (use <10% if possible)	6.8μF	0.33μF	0.1μF	6.8μF	0.33μF	0.082μF
Rotor moment of inertia (g.m ²)	12,5 x 10 ⁻⁴	12,5 x 10 ⁻⁴	12,5 x 10 ⁻⁴	12,5 x 10 ⁻⁴	12,5 x 10 ⁻⁴	12,5 x 10 ⁻⁴
Ambient temperature range						
- Operating	-20 ^o to +70 ^o	-20 ^o to +70 ^o	-20 ^o to +70 ^o	-20 ^o to +70 ^o	20 ^o to +70 ^o	-20 ^o to +70 ^o
-Storage	-40 ^o to +85 ^o	-40 ^o to +85 ^o	-40 ^o to +85 ^o	-40 ^o to +85 ^o	-40 ^o to +85 ^o	-40 ^o to +85 ^o
Bearing type	Sintered Bronze sleeve	Sintered Bronze sleeve	Sintered Bronze sleeve	Sintered Bronze sleeve	Sintered Bronze sleeve	Sintered Bronze sleeve
Insulation resistance at 500 Vdc	100 M?	100 M?	100 M?	100 M?	100 M?	100 M?
Weight (grams)	145	145	145	145	145	145
Leadwires	26 AWG	26 AWG	26 AWG	26 AWG	26 AWG	26 AWG

Dimensional drawing

