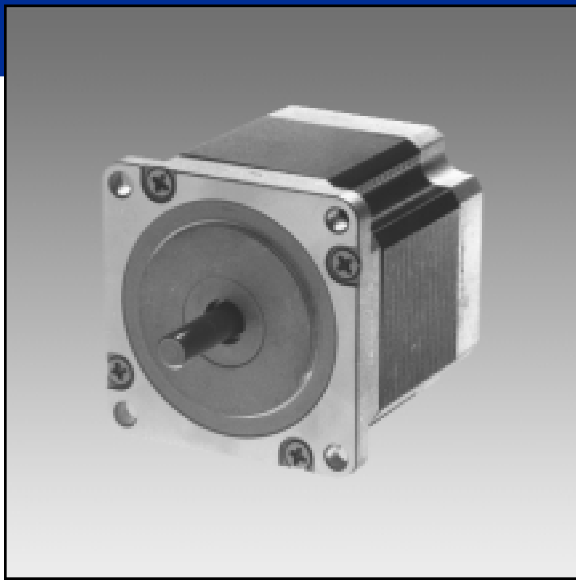
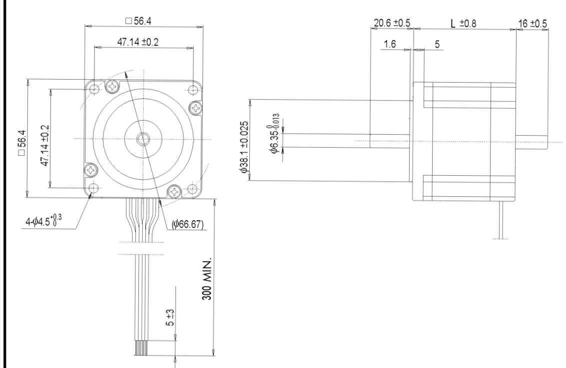
SIZE 23

SERIES

SST58D





SPECIFICATION

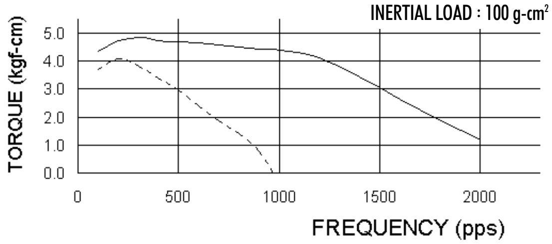
MODEL		STEP ANGLE	VOLTAGE	CURRENT	RESISTANCE	INDUCTANCE	HOLDING TORQUE	ROTOR INERTIA	NUMBER OF LEADS	WEIGHT	DIMENSION
SINGLE SHAFT	DOUBLE SHAFT	DEG.	V	A/PHASE	Ω/PHASE	MH/PHASE	KG-CM	G-CM2	LEAD	KG	L
SST58D1810	SST58D1811	1.8	5.0	1.0	5.0	5.4	4.5	135	8	0.49	42
SST58D1820	SST58D1821	1.8	2.4	2.0	1.2	1.3	4.5	135	8	0.49	42
SST58D1830	SST58D1831	1.8	1.5	3.0	0.5	0.54	4.5	135	8	0.49	42
SST58D2810	SST58D2811	1.8	6.2	1.0	6.2	9.7	7.6	230	8	0.6	49
SST58D2820	SST58D2821	1.8	3.0	2.0	1.5	2.6	7.6	230	8	0.6	49
SST58D2830	SST58D2831	1.8	2.2	3.0	0.73	1.1	7.6	230	8	0.6	49
SST58D3810	SST58D3811	1.8	6.9	1.0	6.9	14.0	9.0	290	8	0.71	54
SST58D3820	SST58D3821	1.8	3.4	2.0	1.7	3.6	9.0	290	8	0.71	54
SST58D3830	SST58D3831	1.8	2.1	3.0	0.7	1.3	9.0	290	8	0.71	54
SST58D4810	SST58D4811	1.8	7.2	1.0	7.2	12.0	11.0	330	8	0.86	65
SST58D4820	SST58D4821	1.8	3.6	2.0	1.8	3.0	11.0	330	8	0.86	65
SST58D4830	SST58D4831	1.8	2.4	3.0	0.8	1.3	11.0	330	8	0.86	65
SST58D5810	SST58D5811	1.8	8.8	1.0	8.8	19.0	14.2	430	8	1.1	77
SST58D5820	SST58D5821	1.8	4.8	2.0	2.4	5.1	14.2	430	8	1.1	77
SST58D5830	SST58D5831	1.8	3.0	3.0	1.0	2.62	14.2	430	8	1.1	77

TYPICAL PERFORMANCE

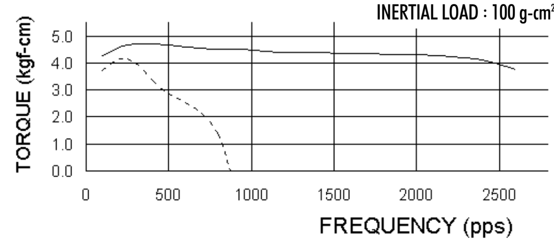
REFER TO PAGE 30 FOR DRIVER

—— PULL OUT
----- PULL IN

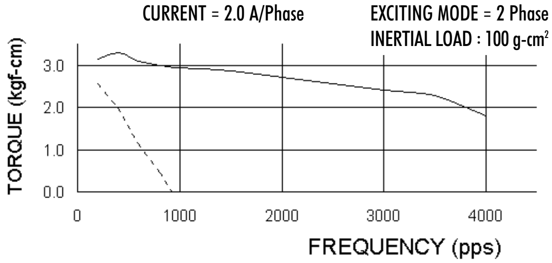
SST58D1810 DRIVER : BIPOLAR
CURRENT = 1.4 A/Phase
SUPPLY : V_s = 24 V
EXCITING MODE = 2 Phase
INERTIAL LOAD : 100 g-cm^2



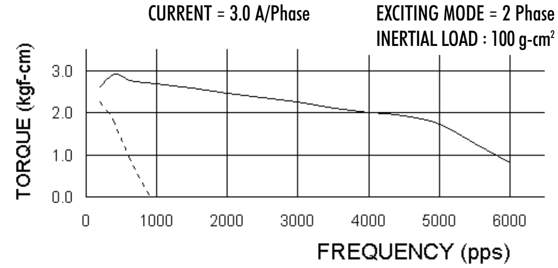
SST58D1820 DRIVER : BIPOLAR
CURRENT = 2.8 A/Phase
SUPPLY : V_s = 24 V
EXCITING MODE = 2 Phase
INERTIAL LOAD : 100 g-cm^2



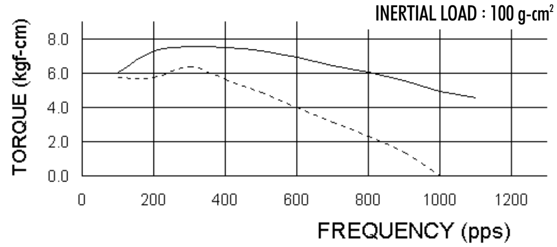
SST58D1820 DRIVER : UNIPOLAR
CURRENT = 2.0 A/Phase
SUPPLY : V_s = 24 V
EXCITING MODE = 2 Phase
INERTIAL LOAD : 100 g-cm^2



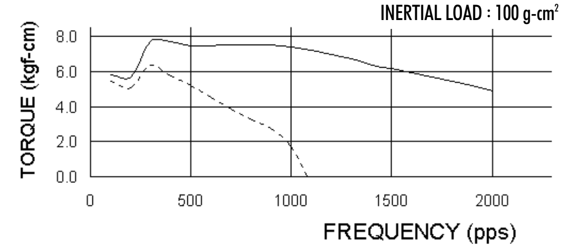
SST58D1830 DRIVER : UNIPOLAR
CURRENT = 3.0 A/Phase
SUPPLY : V_s = 24 V
EXCITING MODE = 2 Phase
INERTIAL LOAD : 100 g-cm^2



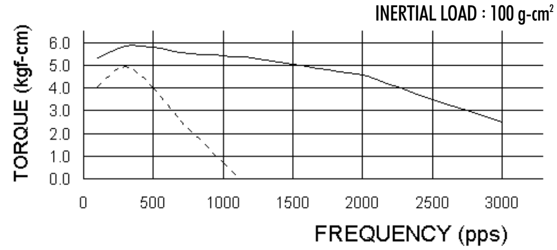
SST58D2810 DRIVER : BIPOLAR · CURRENT = 1.4 A/Phase · SUPPLY : V_s = 24 V · EXCITING MODE = 2 Phase · INERTIAL LOAD : 100 g-cm²



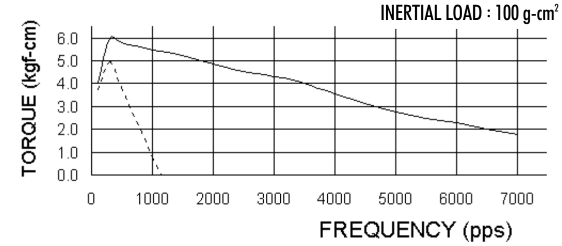
SST58D2820 DRIVER : BIPOLAR · CURRENT = 2.8 A/Phase · SUPPLY : V_s = 24 V · EXCITING MODE = 2 Phase · INERTIAL LOAD : 100 g-cm²



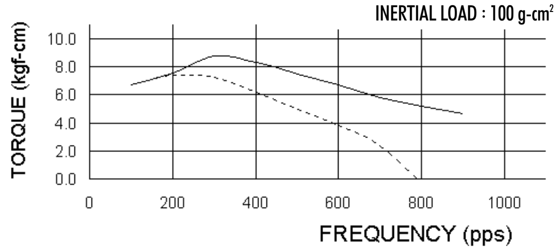
SST58D2820 DRIVER : UNIPOLAR · CURRENT = 2.0 A/Phase · SUPPLY : V_s = 24 V · EXCITING MODE = 2 Phase · INERTIAL LOAD : 100 g-cm²



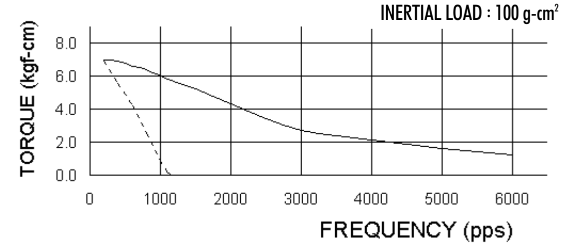
SST58D2830 DRIVER : UNIPOLAR · CURRENT = 3.0 A/Phase · SUPPLY : V_s = 24 V · EXCITING MODE = 2 Phase · INERTIAL LOAD : 100 g-cm²



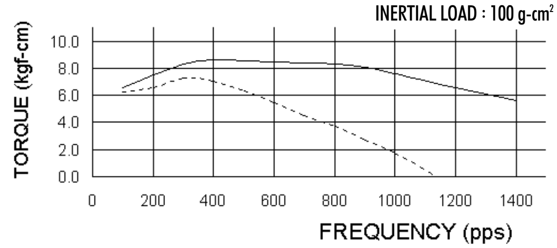
SST58D3810 DRIVER : BIPOLAR · CURRENT = 1.4 A/Phase · SUPPLY : V_s = 24 V · EXCITING MODE = 2 Phase · INERTIAL LOAD : 100 g-cm²



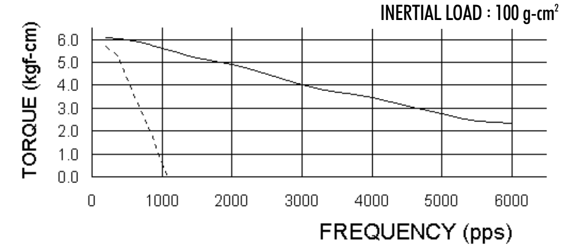
SST58D3820 DRIVER : BIPOLAR · CURRENT = 2.8 A/Phase · SUPPLY : V_s = 24 V · EXCITING MODE = 2 Phase · INERTIAL LOAD : 100 g-cm²



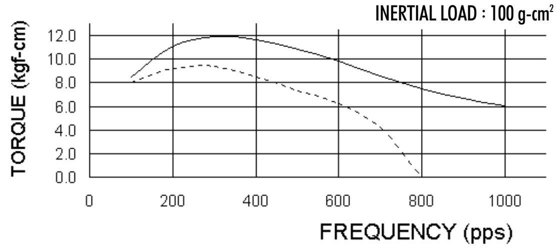
SST58D3820 DRIVER : UNIPOLAR · CURRENT = 2.0 A/Phase · SUPPLY : V_s = 24 V · EXCITING MODE = 2 Phase · INERTIAL LOAD : 100 g-cm²



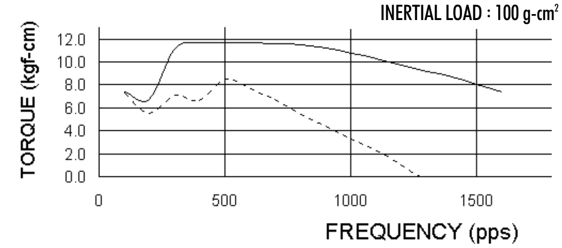
SST58D3830 DRIVER : UNIPOLAR · CURRENT = 3.0 A/Phase · SUPPLY : V_s = 24 V · EXCITING MODE = 2 Phase · INERTIAL LOAD : 100 g-cm²



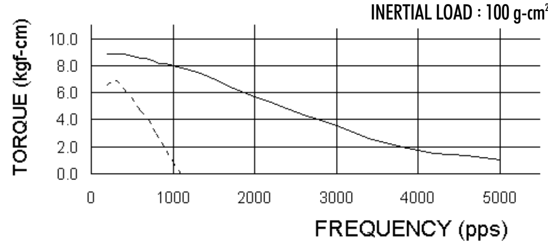
SST58D4810 DRIVER : BIPOLAR · CURRENT = 1.4 A/Phase · SUPPLY : V_s = 24 V · EXCITING MODE = 2 Phase · INERTIAL LOAD : 100 g-cm²



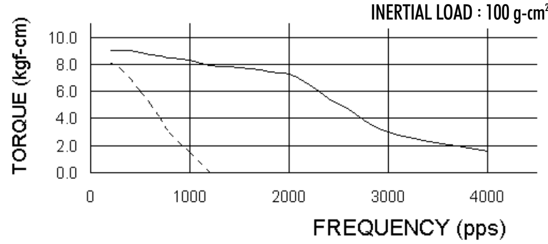
SST58D4820 DRIVER : BIPOLAR · CURRENT = 2.8 A/Phase · SUPPLY : V_s = 24 V · EXCITING MODE = 2 Phase · INERTIAL LOAD : 100 g-cm²



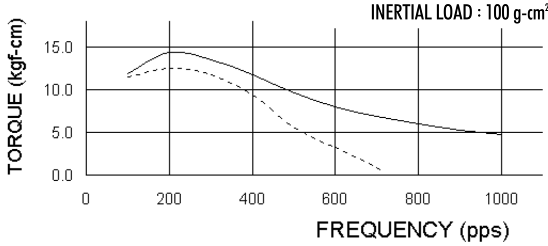
SST58D4820 — DRIVER : UNIPOLAR; CURRENT = 2.0 A/Phase; SUPPLY : V_s = 24 V; EXCITING MODE = 2 Phase; INERTIAL LOAD : 100 g-cm²



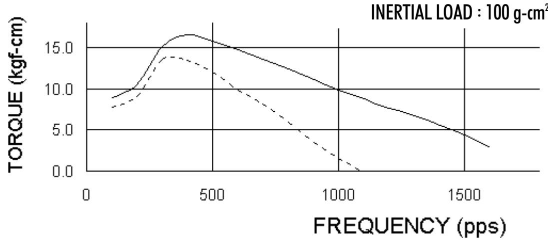
SST58D4830 — DRIVER : UNIPOLAR; CURRENT = 3.0 A/Phase; SUPPLY : V_s = 24 V; EXCITING MODE = 2 Phase; INERTIAL LOAD : 100 g-cm²



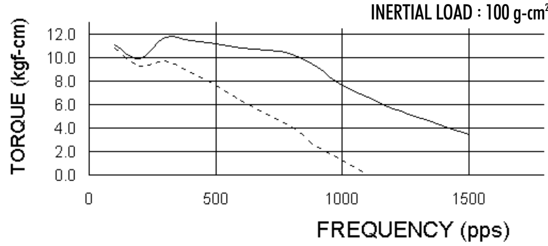
SST58D5810 — DRIVER : BIPOLAR; CURRENT = 1.4 A/Phase; SUPPLY : V_s = 24 V; EXCITING MODE = 2 Phase; INERTIAL LOAD : 100 g-cm²



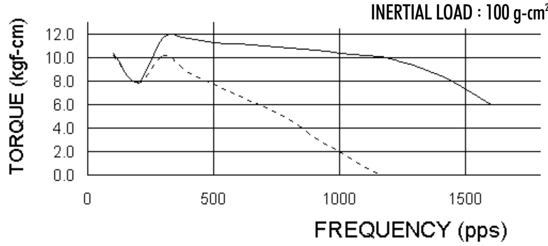
SST58D5820 — DRIVER : BIPOLAR; CURRENT = 2.8 A/Phase; SUPPLY : V_s = 24 V; EXCITING MODE = 2 Phase; INERTIAL LOAD : 100 g-cm²



SST58D5820 — DRIVER : UNIPOLAR; CURRENT = 2.0 A/Phase; SUPPLY : V_s = 24 V; EXCITING MODE = 2 Phase; INERTIAL LOAD : 100 g-cm²



SST58D5830 — DRIVER : UNIPOLAR; CURRENT = 3.0 A/Phase; SUPPLY : V_s = 24 V; EXCITING MODE = 2 Phase; INERTIAL LOAD : 100 g-cm²



RATING CONVERSIONS

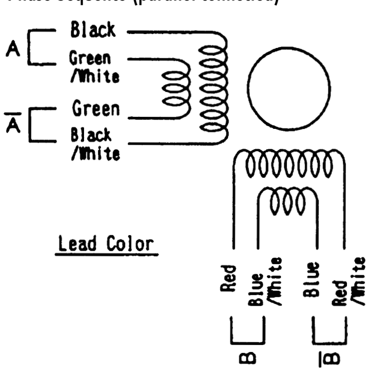
STANDARD DRIVE SCHEME	RATING	UNIPOLAR MULTIPLIER	BIPOLAR SERIES MULTIPLIER	BIPOLAR PARALLEL MULTIPLIERO
Unipolar or Bipolar (center-tap to end)	VOLTS (DC)	1	1.4	0.7
Unipolar or Bipolar (center-tap to end)	CURRENT (A)	1	0.7	1.4
Unipolar or Bipolar (center-tap to end)	RESISTANCE (Ω)	1	2	0.5
Unipolar or Bipolar (center-tap to end)	INDUCTANCE (mH)	1	4	1
Unipolar or Bipolar (center-tap to end)	HOLDING TORQUE	1	1.4	1.4

Step Motors are versatile and have many drive methods. To determine the motor rating when using a drive method that differs from the standard rating approach, multiply the standard rated value by the number indicated in the chart that corresponds to the drive scheme desired.

DIRECTION OF ROTATION
Phase sequence to produce clockwise rotation viewed from mounting end.

STEP	A	B	$\bar{A}$	$\bar{B}$
1	+	+	−	−
2	−	+	+	−
3	−	−	+	+
4	+	−	−	+
5	+	+	−	−

Phase Sequence (parallel connected)



Phase Sequence (series connected)