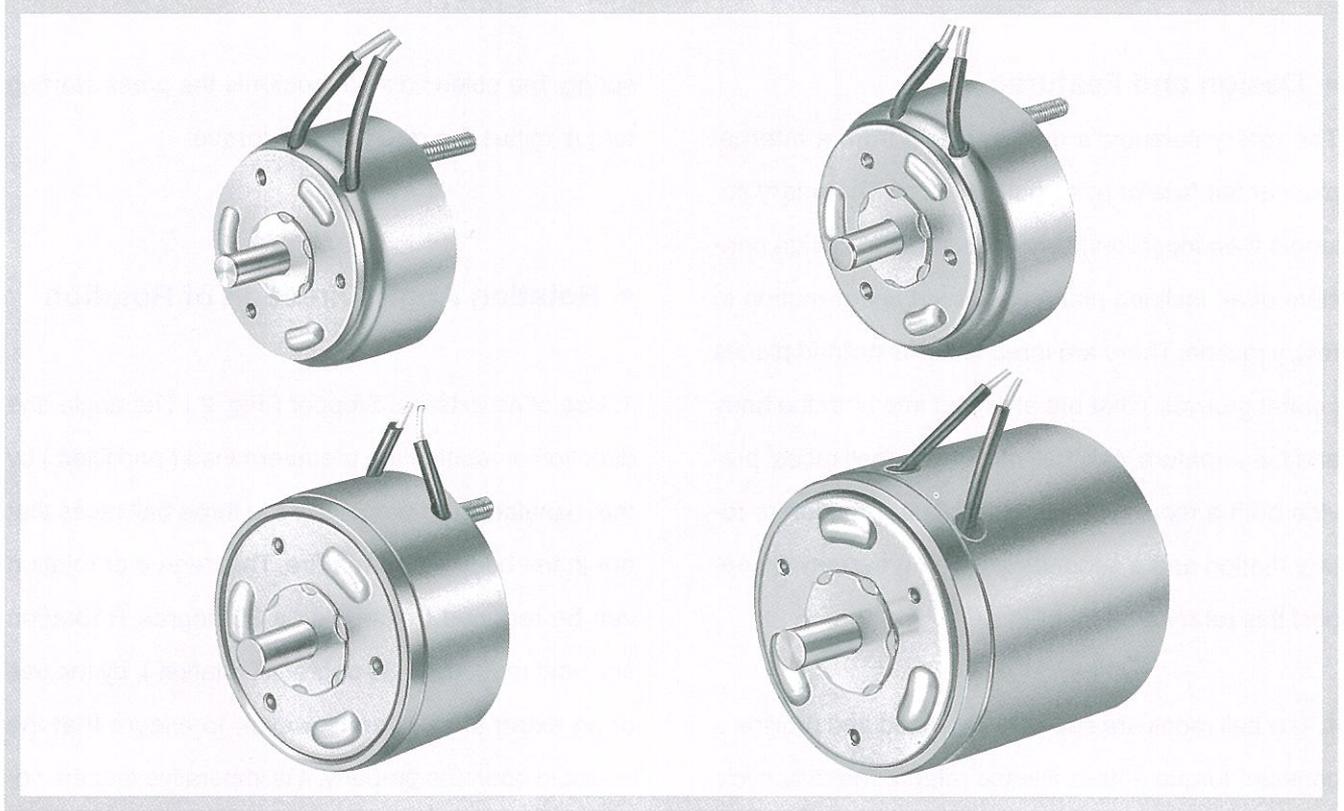
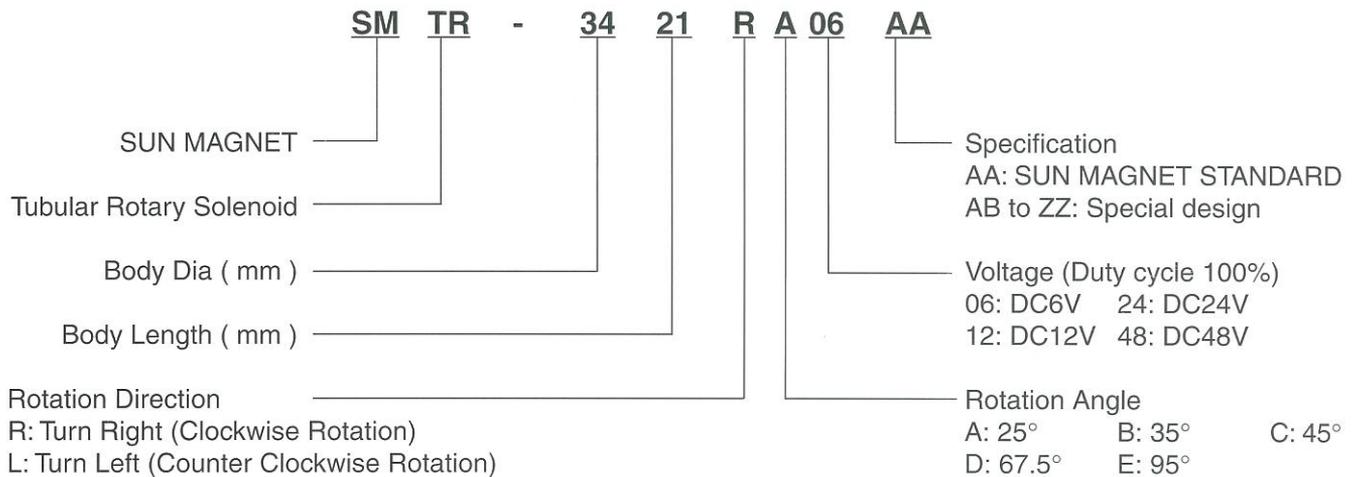


# Rotary Solenoids



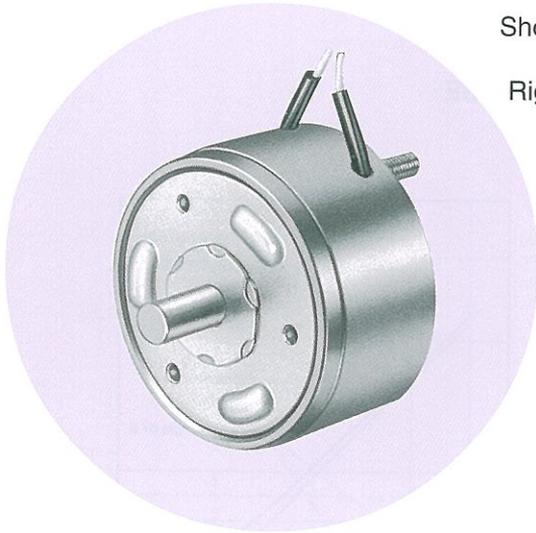
## ORDER INFORMATION



## PERFORMANCE (at initial value)

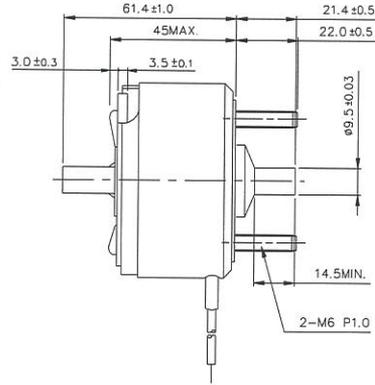
Item \ Type	SMTR Series
Insulation grade	Class E (120°C), Lead wire: Class A (105°C)
Temperature rise	80°C (at continuous duty, ambient temperature 40°C, with heat sink)
Insulation resistance	More than 100MΩ on a DC 500V megger (at normal temperature and normal humidity)
Dielectric strength	AC1000V, 50/60Hz, 1 minute (at normal temperature and normal humidity)
Operating temp. range	-20°C ~ + 40°C
Life expectancy	Standard life: 2,000,000 cycles; or more

# SMTR-7045 Rotary Solenoids

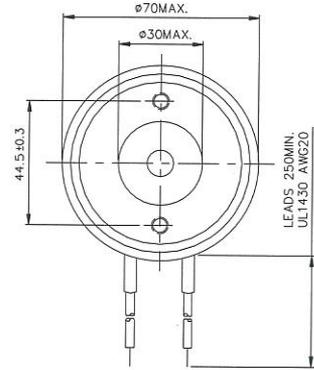
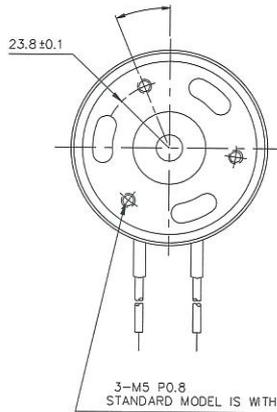


Weight 重量 : 1013g

UNIT 單位 : mm  
Shown De-energized  
斷電狀態  
Right Hand Rotation  
右邊旋轉



1/2 ROTATION ANGLE ±3° TO LEFT OF CENTER FOR R.H. ROTATION, RIGHT OF CENTER FOR L.H. ROTATION.



## COIL DATA 線圈資料

Heat Sink : 390 × 390 × 3mm (aluminum)  
Return spring torque : 0.075 ~ 0.105 N.m

散熱片 : 390 × 390 × 3mm (鋁)  
復歸彈簧扭力 : 0.075 ~ 0.105 牛頓·米

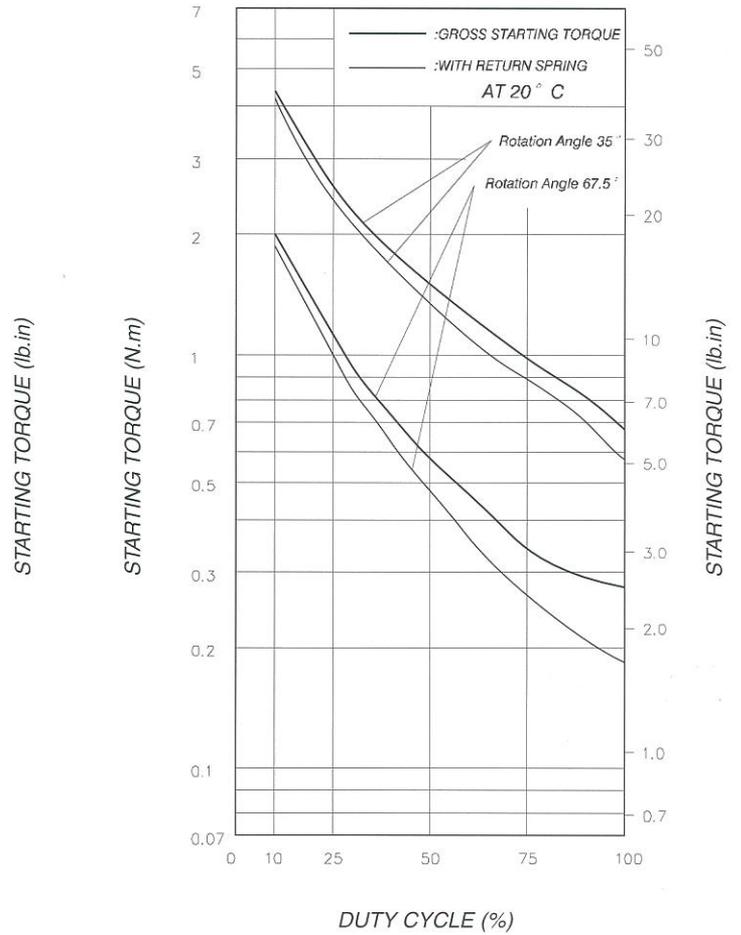
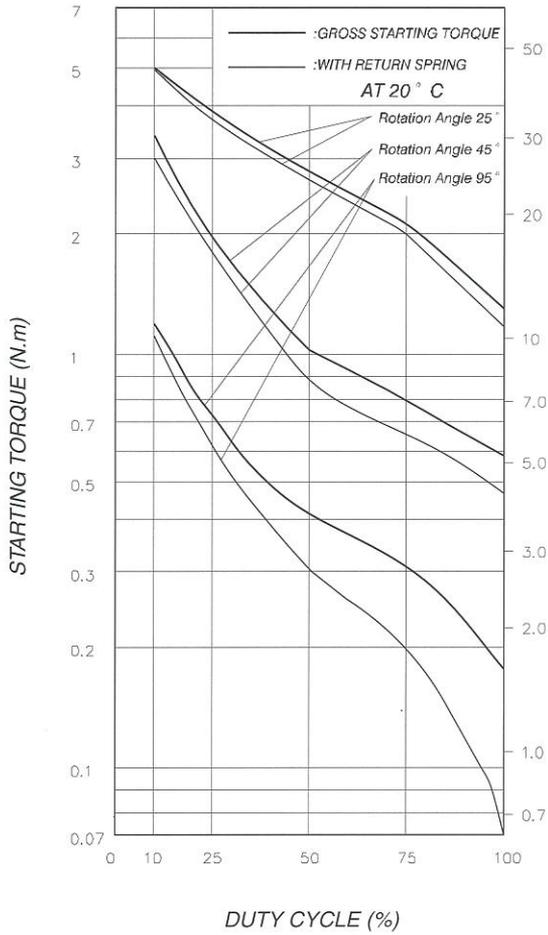
Duty cycle (%) = $\frac{\text{"ON" time}}{\text{"ON" time} + \text{"OFF" time}} \times 100\%$ 作動週期 (%) = $\frac{\text{ON 時間}}{\text{ON 時間} + \text{OFF 時間}} \times 100\%$		Continuous (100%) 連續 (100%)	Or less (75%) 間斷 (75%)	Or less (50%) 間斷 (50%)	Or less (25%) 間斷 (25%)	Or less (10%) 間斷 (10%)	
MAX. "on" time in seconds 最大 ON 時間 (秒)		∞	112	80	37	16	
Watts at 20°C 瓦特數 (W) (在 20°C)		35	46.5	70	140	350	
Ampere-turns at 20°C AT 值 (在 20°C)		1570	1800	2230	3150	5000	
Gross starting torque at 20°C (N · m) 起始扭力 (牛頓 · 米) (在 20°C)		A: 25°	1.27	2.12	2.74	3.8	4.9
		B: 35°	0.69	0.99	1.38	2.53	4.37
		C: 45°	0.58	0.78	1.0	1.88	3.42
		D: 67.5°	0.288	0.355	0.59	1.12	2.01
		E: 95°	0.178	0.3	0.4	0.735	1.21
Type no. 型號	Resistance (20°C) $\Omega \pm 10\%$ 阻值 ( $\Omega$ ) $\pm 10\%$	No. turns 繞線圈數	Volts DC 電壓				
SMTR-7045 □□ 8AA	1.88	368	8	9.3	11	16	26
SMTR-7045 □□ 10AA	3.01	468	10	11	14	20	32
SMTR-7045 □□ 13AA	4.82	580	13	15	18	26	41
SMTR-7045 □□ 16AA	8.1	780	16	19	23	33	52
SMTR-7045 □□ 20AA	12.3	949	20	23	29	41	65
SMTR-7045 □□ 26AA	19	1148	26	30	37	52	83
SMTR-7045 □□ 33AA	30.8	1472	33	38	46	66	105
SMTR-7045 □□ 41AA	48.8	1854	41	47	59	83	132
SMTR-7045 □□ 52AA	81.1	2436	52	60	75	105	166
SMTR-7045 □□ 64AA	121	2944	64	74	92	130	206
SMTR-7045 □□ 82AA	190	3650	82	94	118	166	264
SMTR-7045 □□ 104AA	275	4175	104	119	147	209	331
SMTR-7045 □□ 119AA	440	5792	119	137	170	240	-
SMTR-7045 □□ 165AA	735	7000	165	191	235	331	-
SMTR-7045 □□ 204AA	995	7600	204	239	288	-	-

□□ : Rotation Direction and Angle □□ : 旋轉方向及角度

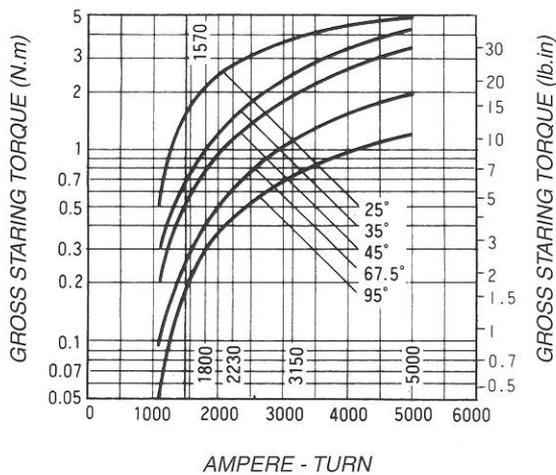


# SMTR-7045 Rotary Solenoids

## DUTY CYCLE Vs STARTING TORQUE 工作週期 / 起始扭力



## AMPERE TURN Vs GROSS STARTING TORQUE 安-匝 / 起始扭力



## AMPERE-TURN Vs RESPONSE TIME 安-匝 / 反應時間

