



TRICORE CORPORATION

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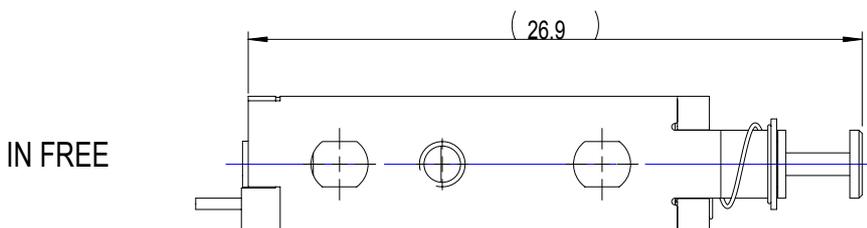
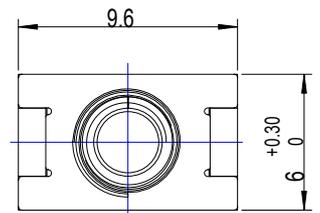
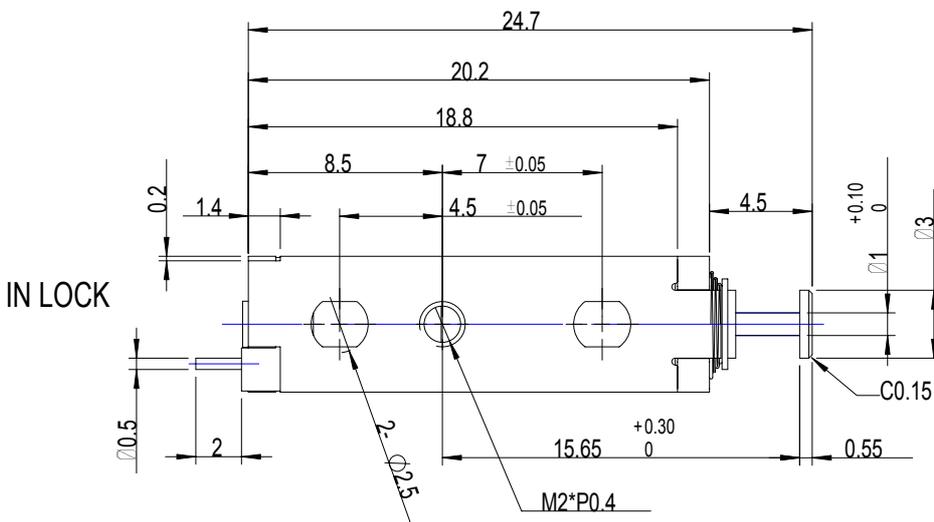
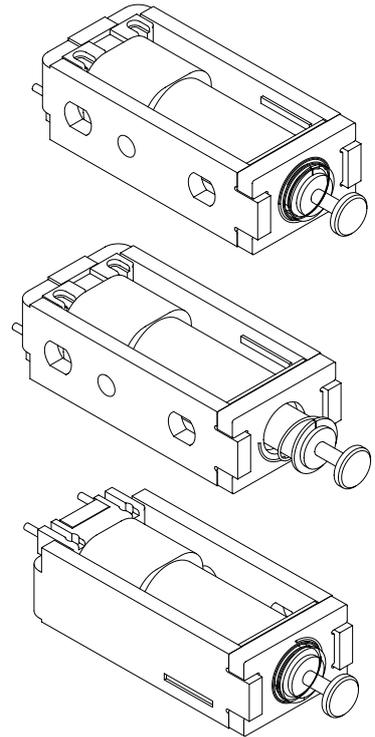
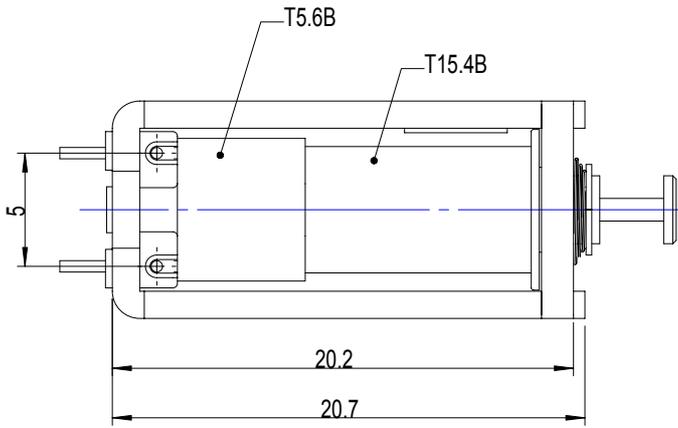
SOLENOID

MODEL

IS2003

APPLICATION

☆ Slim Type CD/DVD-ROM



Spec could be customized



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1. Standard Operating Conditions:

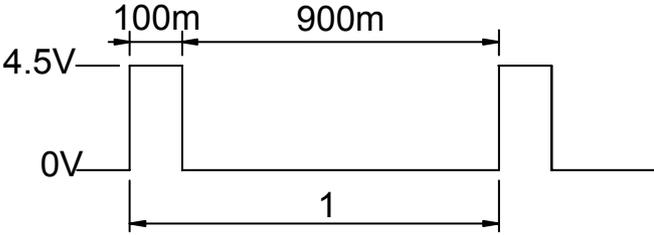
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1-1	Rated Voltage	4.2 DCV constant.
1-2	Rated Current	1.31 A
1-3	Power Consumption	5.51 W (4.2 DCV).
1-4	Operating Voltage	3.0 to 6.0 DCV
1-5	Compensation Factor Of Temperature	+0.00393/c (20 degree standard)
1-6	Operating Temperature Range	-20°C~+60°C.
1-7	Storage Temperature Range	-25°C~+60°C.

2. Electrical Characteristics:

2-1	Force Of Attraction	95 gf min. (at 20°C stroke 1.4mm input 4.2 DCV and without spring).
2-2	Temperature Rise	Rated continuous below 70°C
2-3	Dc Resistance	3.2Ω ± 10% (at 20°C).
2-4	Insulation Resistance	50MΩ min. (at 500DCV between coil and yoke)
2-5	Pull Force	150gf min. (at20°C,INPUT 3.4 DCV)
2-6	Residual Force	At 30 sec after input 3.4 DCV, turn off the power, the plunger can free drop down.
2-7	Dielectric Strength	AC 500V *1 minute.

3. Mechanical Characteristics:

3-1	Weight of solenoid and plunger	Approximate 5.3 gf.
3-2	Life Expectancy	20,000 times min. At load 70gf, stroke 1.4mm and input DC 4.2V. 

4. Environmental Tests:

4-1	Storage Test At High Temperature	All of the specifications in Items 2 and 3 are to be satisfied after solenoid is exposed to +70°C for 48 hours and then to normal room temperature/humidity for 1 hour.
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4-2	Storage Test At Low Temperature	All of the specification in items 2 and 3 are to be satisfied after solenoid is exposed to -30°C for 48 hours and then to normal room temperature/humidity for 1 hour .
4-3	Storage Test At High Temperature/Humidity	All of the specification in items 2 and 3 are to be satisfied after solenoid is exposed to 40°C *90% RH*168hours or 70°C *40% RH*168hours and then to normal room temperature/humidity for 1 hour .
4-4	Salt Spray Test	In accordance with JIS standard testing conditions can't produce rust (yoke and plunger surface) at within 4 hours. Remark: (－)
4-5	High Temperature Characteristic Test	Exposed to +40°C for 8 hours then measuring at same ambient.
4-6	Low Temperature Characteristic Test	Exposed to -10°C for 8 hours then measuring at same ambient.
4-7	High Temperature/High Humidity Characteristic	Exposed to +40°C *90% RH for 8 hours then measuring at same ambient temperature.

5.Surface Treatment:

5-1	Surface Treatment Of Yoke And Fixed Cover	Zn-Plating
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remark: (－) Salt spray test condition followed

Item	Condition
Nacl liquid density	40~60(gl)
PH value	6.5~7.2
Air pressure	1 ± 0.1kg/cm
Quantity of spray	1~2 ml/80cm /h
Saturated air temperature	47°C ±1°C
Nacl liquid temperature	35°C ±1°C
Chamber temperature	35°C ±1°C
Chamber humidity	85% min.



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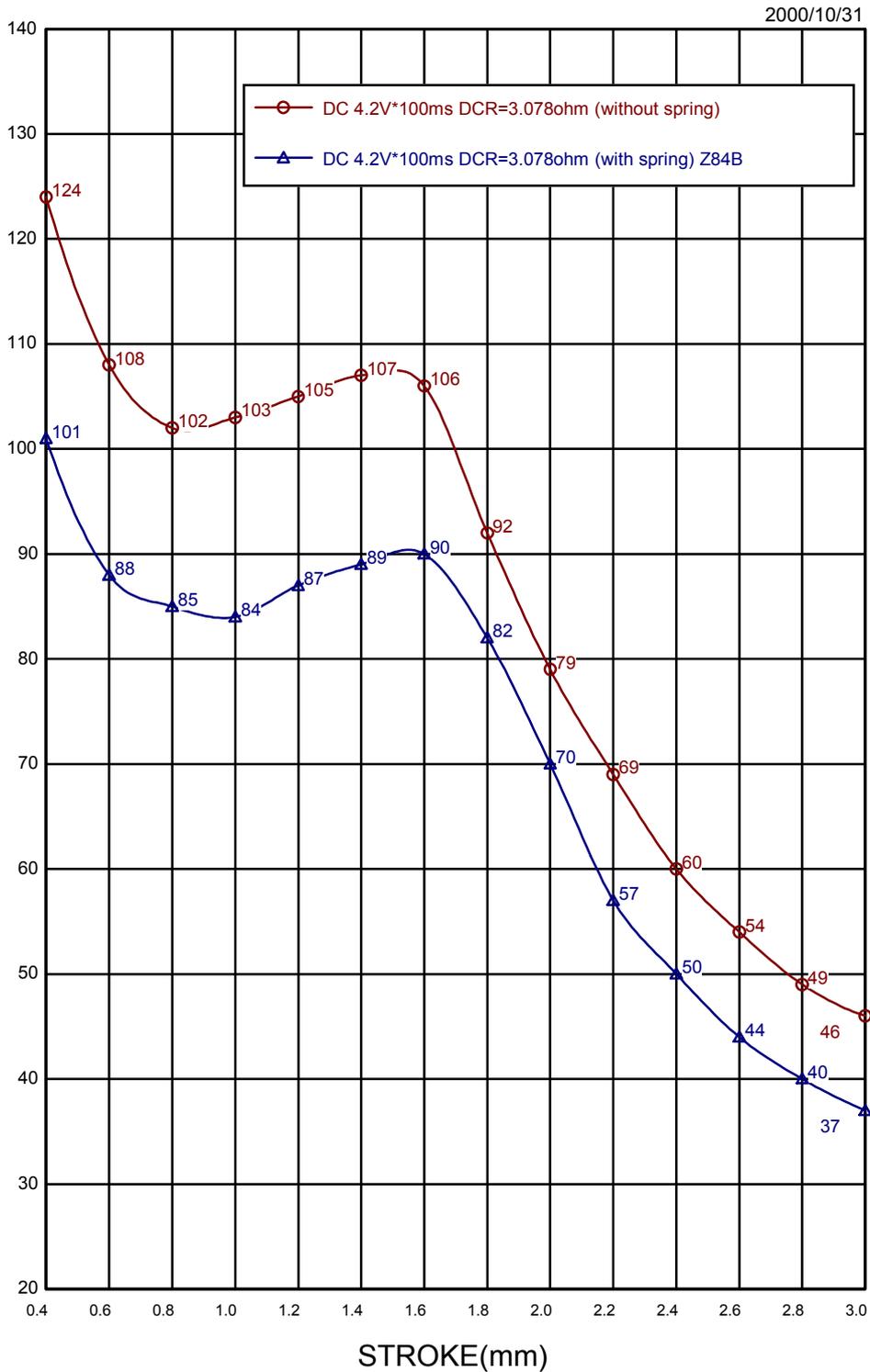
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IS2003 ATTRACTION FORCE CURVE DIAGRAM OF SOLENOID



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