

SPECIFICATION AND PERFORMANCE

Series 303D File 303D-L355F03_SPEC_1 Date 2022/04/0

Scope:

This specification covers the requirements for product performance, test methods and quality assurance provisions of below

Part Name	Description	
303D-L355F03	Pogo Pin Magnet Type, Machine Pin 3P, 35.5x5.3x8.5h, 5u", 500g, 3A, black	
303D-L255M03	Pogo Pin Magnet Type, 3P, 25.5x4.8x6h, 5u", 500g, 2A, black	

Performance and Descriptions:

The product is designed to meet the electrical, mechanical and environmental performance requirements specification. Unless otherwise specified, all tests are performed at ambient environmental conditions.

RoHS:

All material in according with the RoHS environment related substances list controlled.

MATERIALS			
NO.	PART NAME	DESCRIPTION	
1	HOUSING	HTN FR52G30NH, UL94V-0, Black	
2	PPIN	Lead free brass C6801 or equivalent, gold plating over nickel	
2.1	PISTON	Lead free brass C6801 or equivalent, gold plating over nickel	
2.2	BARREL	Lead free brass C6801 or equivalent, gold plating over nickel	
2.3	SPRING	Stainless steel 304 or equivalent	
3	MACHINE PIN	Lead free brass C2801 or equivalent, gold plating over nickel	
4	MAGNET	Neodymium magnet N35, nickel plating	
5	GLUE	LSR-67	

The information contained herein is exclusive property of ATTEND. Do not copy and print except that Attend accepts. 本文件係屬立威科技股份有限公司所有;非經同意,不得以任何覆寫、拷貝、翻印等方式私自據有。亦不得擅加毀損、塗改。



RATING		
Rated Current	2A	
Rated Voltage	12V DC	
Operating Temperature	-30°C TO +60°C	
Storage Temperature	-30°C TO +60°C	
Durability	50,000 Cycles	

ELECTRICAL		
Item	Requirement	Test Condition
Contact Resistance	50mΩ Max. at working	Voltage drop system four-wire system with below
	stroke (at standing still)	300mA
Dielectric Strength	No dielectric breaks down.	500VAC 1 minute
Insulation Resistance	100M MIN.	500VDC 1 minute

MECHANICAL		
Item Requirement Test Condition		Test Condition
Pin Force	70g±20g	1.0mm compression, test speed 25.0mm/min.
Pin Strength	No appearance damage	9.8N force on pin from any direction for 1 minute
Pin Pulling Off Force	No appearance damage	3.0N force on a pin from axis direction for 1 minute

ENVIRONMENTAL		
Item	Requirement	Test Condition
Operation durability	No appearance damage	1.0mm pin compression for the nominal stroke at a
	Contact Resistance:	frequency of 10 to 20 times per minute for 50,000
	100mΩ Max.	cycles.
	Pin Force: 80g±0.2g	
	No appearance damage	
Low Temperature	Contrat Desistance	Store in temp:-30°C±3°C for 96hrs, then leave in
Durability	Contact Resistance: - 100mΩ Max. No appearance damage	the ambient temperature for 1 hour.
High Temperature		Store in temp: +60°C±2°C for 96hrs, then leave in
Durability		the ambient temperature for 1 hour.

The information contained herein is exclusive property of ATTEND. Do not copy and print except that Attend accepts. 本文件係屬立威科技股份有限公司所有;非經同意,不得以任何覆寫、拷貝、翻印等方式私自據有。亦不得擅加毀損、塗改。



Livesidite : Dives bility		Chara in terms (000 1 200 with hymidity of 000/	
Humidity Durability		Store in temp: 60°C±2°C with humidity of 90% ~	
		95% for 96hrs, then leave in the ambient	
	Meet electrical spec.	temperature for 1 hour.	
Temperature Cycle Test	No appearance damage	Cycle 5 times	
		(Table 1 Shows test condition for 1 circle).	
		Leave in the ambient temp for 1 hour.	
Salt Spray No excessive surface		The electrical performance shall be measured after	
	corrosion	continuous spray of salt water with 5±1% densit	
		and 35°C±2°C temperature for 24 hours, cleaning	
		with lukewarm water and dry, and leaving in	
		ambient temperature for 1 hour.	
Vibration		Connect each connector pin in series, conducting	
	Contact Resistance: 100mΩ Max. No appearance damage Intermittency below 1µ sec	current of 0.1A. After that, the vibration described	
		below is added.	
		• Amplitude: 1.5mm	
		 Sweeping cycle:10~55~10 Hz/minute 	
Shock 10		• Duration of test: 2 hours for each of X, Y, Z axis	
		Connect each connector pin in series, conducting	
		current of 0.1A. After that, the shock described	
		below is added.	
		 Accelerating rate:490m/s² 	
		• Operating time of the test:11ms	
		• The number of operating times:	
		3 shocks at X, Y, Z axis both in negative and	
		positive direction.	

Table 1 – Temperature Cycle

Step	Temperature (°C)	Time (minutes)
1	-30±3	30~35
2	5~35	10~15
3	60±2	30~35
4	5~35	10~15

The information contained herein is exclusive property of ATTEND. Do not copy and print except that Attend accepts. 本文件係屬立威科技股份有限公司所有;非經同意,不得以任何覆寫、拷貝、翻印等方式私自據有。亦不得擅加毀損、塗改。