NO.: AP-03120701

APPROVED SHEET

PROD	UCT:	Relay	
_			
P/N:	YH18	35B-012-1H9	(2750001)

CUSTOMER: RadioShack

API	PROVED	
DATE:		

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SPECIFICATION

CUSTOMER NAME:

5. INSULATION RESISTANCE:

4-2: BETWEEN COIL AND CONTACT:

	TYPE: YH 185B-012-1H9
Gl	ENERAL PERFORMANCE:
1.	CONTACT SPECIFICATION:
	1-1: CONTACT FORM: SPST SPST
	1-2: CONTACT MATERIAL: <u>AgNi10</u>
	1-3: CONTACT RESISTANCE: <u>100</u> mΩ Max. by measurement of voltage drop test method. (DC12V 1
	1-4: CONTACT CAPACITY: NO: <u>60 A</u> <u>14 VDC</u> Resistive.
	NO: 40 A 14 VDC Starting Motor 1Sec ON, 9Sec OFF. 1 x 10 ⁵ ops
	1-5: MAX. SWITCHING CURRENT NO: <u>120</u> A <u>14</u> VDC
2.	ELECTRICAL SPECIFICATION (at $20^\circ\!$
	2-1: NOMINAL VOLTAGE: <u>12</u> VDC
	2-2: NOMINAL CURRENT: 133 mA
	2-3: PICK-UP VOLTAGE: 7.2 V (60% Max. of nominal voltage.)
	2-4: DROP-OUT VOLTAGE: <u>1.2</u> V (10% Min. of nominal voltage.)
	2-5: MAX SWITCHING VOLTAGE: 15.6 V
	2-6: COIL RESISTANCE: $\underline{90} \Omega = 10\%$
	2-7: OPERATE TIME: ms Max. at nominal condition.
	2-8: RELEASE TIME: ms Max. at nominal condition.
3.	SERVICE LIFE:
	3-1: ELECTRICAL SERVICE LIFE: 1 x 10 ⁵ ops. at 60A / 14 VDC Resistiv
	3-2: MECHANICAL SERVICE LIFE: 1 x 10 ⁷ ops. at no load condition.
4.	DIELECTRIC WITHSTANDING STRENGTH:
	4-1: BETWEEN CONTACTS: 500 VAC (50/60Hz) for one minute.

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<u>100</u> $M\Omega$ at 500VDC.

6. *VIBRATION TEST*: <u>10G</u> (18/60Hz)

7. SHOCK TEST: 40G

8. OPERATING CONDITION:

8-1: TEMPERATURE: <u>-40 ~125</u> °C

8-2: HUMIDITY: <u>95</u> %RH

9. STORAGE CONDITION:

9-1: TEMPERATURE: $-40\sim155$ °C 9-2: HUMIDITY: 95 %RH

10. IMPACT (SURGE) TEST: 1,000 V between coil and contacts. (40 μs)

11. TERMINAL STRENGTH: 1,500 gr. for 1 minute at horizontal direction.

12. REMARKS:

12-1: SAMPLING TEST METHOD: MIL-STD-105D Level General II A.Q.L.0.1%.

13. NUMBERING SYSTEM:

Typical Part Number
$$\stackrel{\bullet}{}$$
 $\underbrace{YH185B - 012 - 1H}_{II} \underbrace{9}_{IIV}$

I. MODEL NUMBER

II. COIL VOLTAGE

6VDC Through 24VDC 012 = 12VDC

III. CONTACT ARRANGEMENT

 $1H = 1 \text{ Form A} \quad (SPST)$

1Z = 1 Form C (SPDT)

IV. MOUNTING TYPE

Nil = Plug in

9 = Mounting Bracket

M = Metal Bracket

YH185B-012-1H9 MATERIAL LIST

