

Aufbauübersicht für elektrische und elektronische Komponenten

Data form for electrical and electronic component



Seite 1 of 5
Page 1 of 5

Auftraggeber / Applicant: Guangxi Ramway Technology Co.,Ltd
No.9, Xingyu Road, High-Tech Zone 54300 Wuzhou, Guangxi PEOPLE'S REPUBLIC OF CHINA

Fertigungsstätte / Production facility: Same as applicant

Geräteart / Type of equipment: Relays (Bistable relay)

Typenbezeichnung / Type/model: DS908A, DS908B, DS908C, DS908D, DS908E

Seriennr. / Serial no.: N/A

Nennspannung/Frequenz / Rated voltage/frequency: 250VAC; 50/60 Hz

Parameter concerns (EN61810-1)	Specification
Rated voltage(s) of the coil(s):	DC6V, DC9V, DC12V, DC24V
Rated power of the coil(s):	See Coil data table
Type of load:	Resistive load
Rated voltage(s) of the contacts:	250VAC
Rated current(s) of the contacts:	60A for DS908A; 90A for DS908C; 100A for DS908B, DS908D and DS908E.
Electrical endurance/number of cycles:	10 000 cycles
Mechanical endurance/number of cycles:	1 00 000 cycles
Thermal class:	Class B
Ambient temperature range:	-40°C to +85°C
Categories of environmental protection(RT):	RT I
Type of interruption:	<input type="checkbox"/> Micro-interruption <input checked="" type="checkbox"/> micro-disconnection <input type="checkbox"/> full-disconnection
Type of insulation between coil(s) and contacts:	<input type="checkbox"/> Functional insulation <input checked="" type="checkbox"/> basic insulation <input type="checkbox"/> reinforce insulation
Glow-wire test:	850°C
Pollution degree:	2
Rated impulse withstand voltage(s):	4kV
Operative range:	Class 1
Release voltage/or Reset voltage:	See Coil data table
Coil(s) resistance:	See Coil data table
Number of poles:	2
Circuit diagram:	c
Kind of contacts:	Make contacts
Material of contact:	AgSnO ₂
Electrical endurance/frequency of cycles:	720/h
Duty factor:	25% (1.25s on, 3.75s off)
Kind of terminals:	Welding terminals
Overvoltage category:	II
Insulation material group:	IIIa

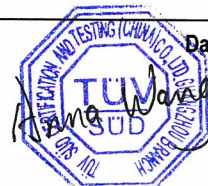
Prüfbericht Nr. / Test Report No.: 64.100.17.03069.01

Ort / place: Guang zhou

Datum / date: 2017.11.14

Projektleiter / Project Handler: Anna Wang

Stempel und Unterschrift /
Seal and signature



Aufbauübersicht für elektrische und elektronische Komponenten

Data form for electrical and electronic component



Seite 2
Page 2

of 5
of 5

Parameter concerns (EN61810-1)	Specification
Tracking resistance/PTI:	175V
Mechanical endurance/frequency of cycles:	1800/h
Resistance to soldering heat:	N/A
Mounting position:	Any
Mounting distance:	50mm
Test procedure:	Group mounting
Parameter concerns (EN 62055-31)	Specification
Minimum switched current:	1.0A
Rated breaking current (Ic):	60A for DS908A; 90A for DS908C; 100A for DS908B, DS908D and DS908E.
Rated breaking voltage (Uc):	250VAC
Utilisation category:	UC3

Remark: For standard EN 62055-31 only clause 7.9 and annex C are considered.

Coil data table

Type of relay	Rated voltage(s) of the coil (VDC)	Coil resistance $\pm 10\%$ (Ω)		Operate/ release voltage (VDC)	Rated power of the coil (W)
		Single winding	Double windings		
DS908A	6	16	2x8	4.2	2.25
	9	36	2x18	6.3	2.5
	12	54	2x27	8.4	2.6
	24	200	2x100	16.8	2.9
DS908B	6	12	2x6	4.2	3.0
	9	18	2x9	6.3	4.5
	12	32	2x16	8.4	4.5
	24	128	2x64	16.8	4.5
DS908C	6	16	2x8	4.2	2.3
	9	36	2x18	6.3	2.3
	12	54	2x27	8.4	2.7
	24	200	2x100	16.8	2.9
DS908D/ DS908E	6	17	2x9	4.2	2.1
	9	20	2x10	6.3	4.1
	12	34	2x17	8.4	4.2
	24	135	2x68	16.8	4.3

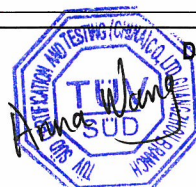
Form ID: TFS_GCIN_F_09.32E - Rev.1

Prüfbericht Nr. / Test Report No.: 64.100.17.03069.01

Projektleiter / Project Handler: Anna Wang

Ort/place: Guang zhou

Stempel und Unterschrift /
Seal and signature



Datum/date: 2017.11.14

Aufbauübersicht für elektrische und elektronische Komponenten

Data form for electrical and electronic component



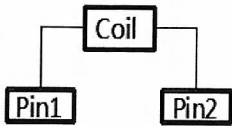
Seite 3
Page 3

of 5
of 5

Coil connection diagram

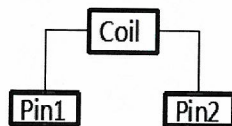
Single winding

Positive Polarity



-ve Open +ve
+ve Close -ve

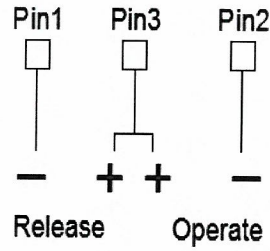
Negative Polarity



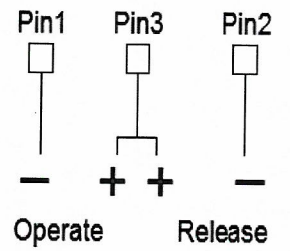
-ve Operate +ve
+ve Release -ve

Double windings

Positive Polarity



Negative Polarity



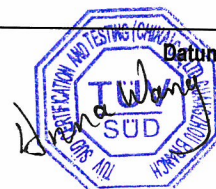
Form ID: TPS_GCN_F_09.32E - Rev.1

Prüfbericht Nr. / Test Report No.: 64.100.17.03069.01

Projektleiter / Project Handler: Anna Wang

Ort/place: Guang zhou

Stempel und Unterschrift /
Seal and signature



Datum / date: 2017.11.14

Aufbauübersicht für elektrische und elektronische Komponenten

Data form for electrical and electronic component



Product Service

Seite 4 of 5
Page 4 of 5

Bauteil/ Kind of component	Hersteller/ Manufacturer	Angaben über Typ, Stromstärke, Leistung, Material Transformatorspezifikation, Isolationsklasse etc. Information about type, current, power, material, transformer specitication, insulating class , etc.	Prüfzeichen von Test mark from (TÜV, VDE, BSI, UL etc.)
1. Case, base, bobbin	LATI INDUSTRIA TERMOPLASTICI SPA	PBT E202G30, PTI 175, Glow wire 850°C	UL E107536 Test with appliance
2. Card	DSM ENGINEERING PLASTICS INC	PA46 K-F46 S6/A NAT, PTI 175, Glow wire 850°C	Test with appliance
3. Support	NANJING DELLON ENGINEERING PLASTICS CO LTD	PA66 A7064, PTI 175, Glow wire 850°C	Test with appliance
4. Magnetic steel combination	ZHEJIANG YUEQING LANGSAI ELECTROIC TECHNOLOGY CO.LTD	PBT E202G30, PTI 175, Glow wire 850°C, Magnetic Steel	UL E107536 Test with appliance
5. Lead wire of coil	XINYA ELECTRONIC CO LTD	Lead wire 24AWG	UL E170689 Test with appliance
Only for DS908A			
6. Stationary contact and Movable contact	FUDA ALLOY MATERIALS CO.,LTD	88% AgSnO2 +Cu, 0.4mm thickness for AgSnO2, Diameter: 5.5mm.	Test with appliance
7. Contact termial 1,2,3,4	New Haien Stamping Company	T2 copper, 1.2mm thickness	Test with appliance
8. Yoke	Yuyao Moushan huaqiao Stamping Company	DT4E, plating nickel on surface, 1.8mm thickness	Test with appliance
9. Core	Yuyao Moushan huaqiao Stamping Company	DT4E, plating nickel on surface, 1.8mm thickness	Test with appliance
10. Spring A	New Haien Stamping Company	Beryllium Bronze, 0.3mm thickness	Test with appliance
11. Auxiliary spring C	New Haien Stamping Company	T2 copper, 0.3mm thickness	Test with appliance
Only for DS908B			
12. Stationary contact and Movable contact	FUDA ALLOY MATERIALS CO.,LTD	88% AgSnO2 +Cu, 0.7mm thickness for AgSnO2, Diameter: 7.0mm.	Test with appliance
13. Contact termial 1,2,3,4	New Haien Stamping Company	T2 copper, 2.0mm thickness	Test with appliance
14. Yoke 1/2	Yuyao Moushan huaqiao Stamping Company	DT4E, plating nickel on surface, 1.5mm thickness	Test with appliance
15. Spring A	Yuyao Moushan huaqiao Stamping Company	Alloy7 NGK silver plating, 0.3mm thickness	Test with appliance
16. Spring B/C	Yuyao Moushan huaqiao Stamping Company	T2 copper and silver plating, 0.3mm thickness	Test with appliance
17. Current shunt of the termnal 1	FOSHAN LUCK ELECTRONIC TECHNOLOGY CO.LTD	T2 copper and manganin, 2.0mm thickness	Test with appliance
Only for DS908C			

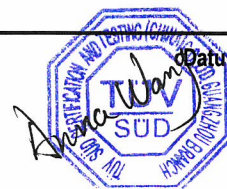
Prüfbericht Nr. / Test Report No.: 64.100.17.03069.01

Ort/place: Guang zhou

Datum / date: 2017.11.14

Projektleiter / Project Handler: Anna Wang

Stempel und Unterschrift /
Seal and signature



Aufbauübersicht für elektrische und elektronische Komponenten

Data form for electrical and electronic component



Product Service

Seite 5 of 5
Page 5 of 5

Bauteil / Kind of component	Hersteller / Manufacturer	Angaben über Typ, Stromstärke, Leistung, Material Transformatorspezifikation, Isolationsklasse etc. Information about type, current, power, material, transformer specification, insulating class, etc.	Prüfzeichen von Test mark from (TÜV, VDE, BSI, UL etc.)
18. Stationary contact and Movable contact	FUDA ALLOY MATERIALS CO.,LTD	88% AgSnO2 +Cu, 0.7mm thickness for AgSnO2, Diameter: 5.5mm.	Test with appliance
19. Contact terminal 1,2,3,4	Yuyao Moushan huaqiao Stamping Company	T2 copper, 2.0mm thickness	Test with appliance
20. Yoke	Yuyao Moushan huaqiao Stamping Company	DT4E, galvanize surface, 1.8mm thickness	Test with appliance
21. Core	Yuyao Moushan huaqiao Stamping Company	DT4E, galvanize surface, 1.8mm thickness	Test with appliance
22. Spring A	Yuyao Moushan huaqiao Stamping Company	Alloy7 NGK, 0.3mm thickness	Test with appliance
23. Spring B/C	Yuyao Moushan huaqiao Stamping Company	T2 copper, 0.3mm thickness	Test with appliance
Only for DS908D and DS908E			
24. Stationary contact and Movable contact	FUDA ALLOY MATERIALS CO.,LTD	88% AgSnO2 +Cu, 0.7mm thickness for AgSnO2, Diameter: 8.0mm.	Test with appliance
25. Contact terminal 1,2,3,4	Yuyao Moushan huaqiao Stamping Company	T2 copper, 2.0mm thickness	Test with appliance
Alternate	TAOYANG ELECTRONIC CO.LTD	T2 copper, 2.0mm thickness	Test with appliance
26. Yoke 1/2	Yuyao Moushan huaqiao Stamping Company	DT4E, plating nickel on surface, 1.5mm thickness	
27. Spring A	Yuyao Moushan huaqiao Stamping Company	Alloy7 NGK, 0.3mm thickness	
28. Spring B/C	Yuyao Moushan huaqiao Stamping Company	T2 copper, 0.3mm thickness	
Remark: For the contact terminal 1/2/3/4 of DS908D and DS908E, the manufacture " Yuyao Moushan huaqiao Stamping Company" is only for the terminals of DS908D and manufacture " TAOYANG ELECTRONIC CO.LTD" is only for the terminals of DS908E.			

Form ID: TPS_GCN_F_09.32E - Rev.1

Prüfbericht Nr. / Test Report No.: 64.100.17.03069.01

Ort/place: Guang zhou

Datum/date: 2017.11.14

Projektleiter / Project Handler: Anna Wang

Stempel und Unterschrift /
Seal and signature

