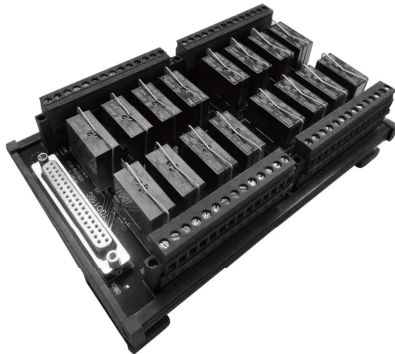


HF GD7-2

Relay Output Drive Board For Special System



Features

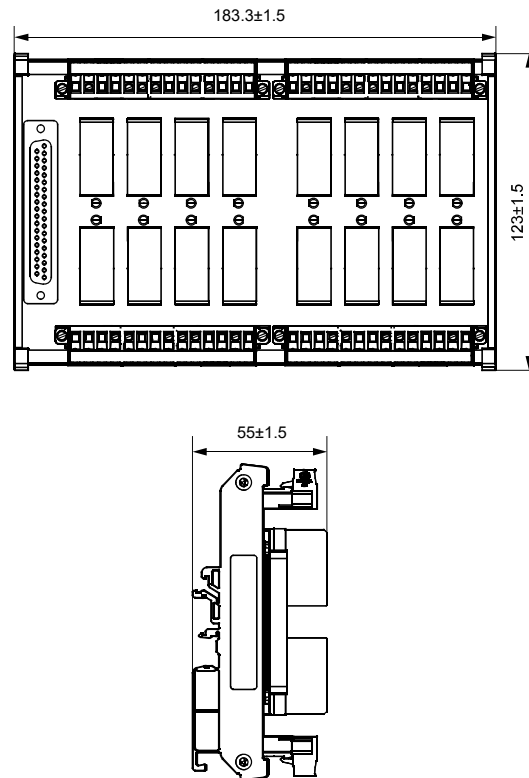
- 10A 250VAC/30VDC switching capability with single pole contact
- Relays are equipped with sockets for quick replacement and maintenance

CHARACTERISTICS

INPUT		
Nominal Voltage	24VDC (Allow 80%~110% rated change range)	
Power consumption Per Channel	<600mW	
Wiring polarity	Polar（Pay attention to wiring polarity）	
Terminal type	D-SUB 37pin	
Control Channel Qty	16	
OUTPUT		
Relay specification	HF115FK (See annex 1)	HF158F-V (See annex 2)
Contact arrangement	1 form C	1 form A
Rated voltage	250VAC/ 30VDC	
Rated current	1 Pole: 10A/Channel	
Terminal type	Terminal block（See annex 3）	
ENVIRNMENTAL AND SAFETY REGULATIONS		
Ambient temperature	-20～55℃	
Storage temperature	-20～55℃	
Installation method	DIN35 DIN-G	
Standard compliance	IEC61010-1	
Dielectric strength (50Hz,1min)	Between output channels	1.5kV
	Between input and output	4kV
Surge voltage(1.2/50μs)	2.5kV	

OUTLINE DIMENSIONS

Unit: mm

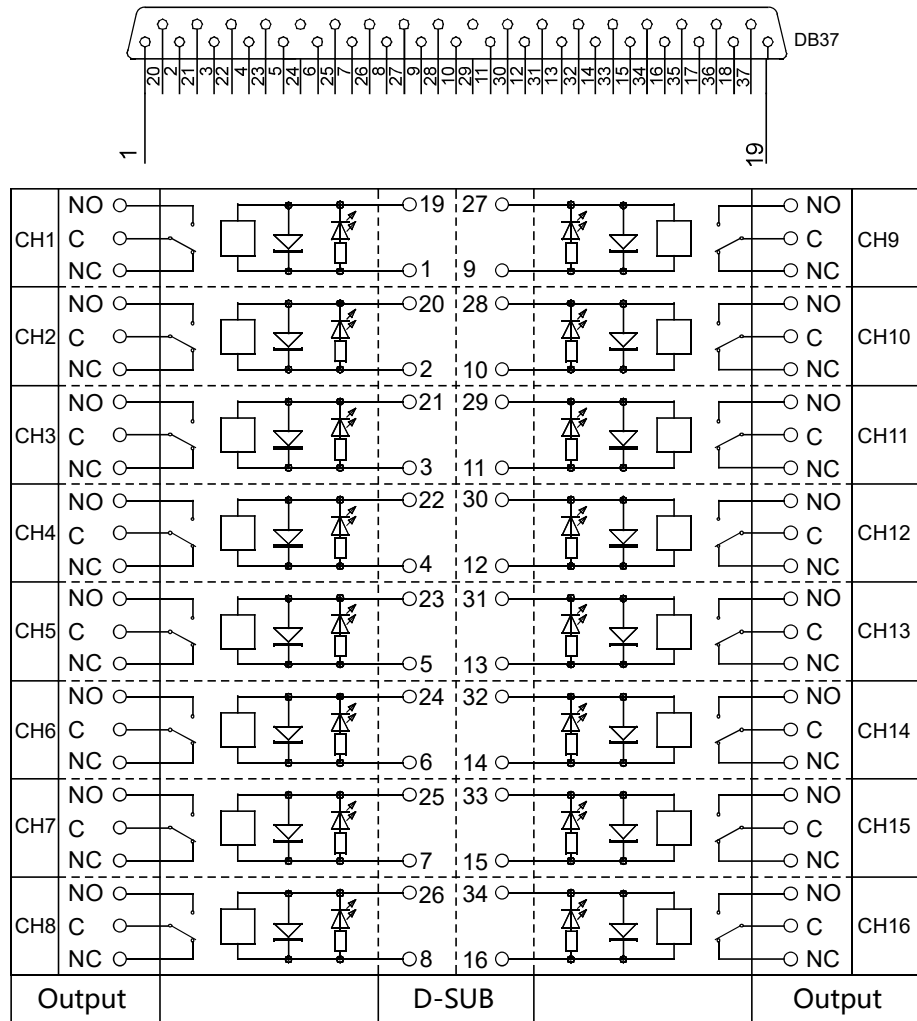


HONGFA APPLICATION ELECTRONIC MODULE

ISO9001、IATF16949、ISO14001、OHSAS18001、IECQ QC 080000 CERTIFIED

2022 Rev. 1.00

SCHEMATIC DIAGRAM




ORDERING INFORMATION


Type	HFGD7-2 /	CTB1Z	16-	R	D24 (XXX)
Output Channel Typ	CTB1Z:1 Form C(HF115FK Relay) CTB1H:1 Form A(HF158F-V Relay)				
Control Channel Qty	16				
Installation method	R: Din-rail				
Input rated voltage	D24: 24VDC				
Special code	XXX: Customer special requirement ; Nil: Standard				

Annex 1: Relay parameter table(HF115FK)







File No.: E134517



File No.: 116934



File No.: CQC17002176308



Features

- 16A switching capability
- Low height(15.7mm)
- 5kV dielectric strength(between coil and congtacts)
- Creepage distance:10mm
- Meeting VDE 0700/0631 reinforce insulation
- Product in accordance to IEC60335-1 available
- Multiple contact arrangement are available
- Sockets are available
- UL insulation system: class F available


RoHS compliant

CONTACT DATA		
Contact arrangement	1H、1Z	2H、2Z
Contact Resistance	≤100mΩ（1A 6VDC）	
Contact material	AgSnO2	
Contact rating	10A/12A/16A 250VAC	8A 250VAC
Max.switching voltage	400VAC	
Max.switching current	10A/12A/16A	10A
Max.switching power	2500VA/3000VA/4000VA	2000VA
Mechanical endurance	1×10 ⁷ OPS	
Electrical endurance	H3PT type: 1×10 ⁵ OPS (NO:16A 277VAC,Res. load, 40℃, 1s on,9s off) Z3PT type: 5×10 ⁴ OPS (NO:16A 277VAC,Res. load, 85℃, 1s on,9s off) 2Z4PT type: 5×10 ⁴ OPS (NO:8A 277VAC,Res. load, 85℃, 1s on,9s off)	


CHARACTETISTIC	
Coil power	Approx.400mW or Approx.530mW
Insulation resistance	1000MΩ（500VDC）
Dielectric strength	between coil & contacts: 5kVAC 1min
	between open contacts: 1kVAC 1min
	between contact sets: 2.5kVAC 1min
Surge voltage	10kV（1.2 x 50μs）

Annex 2: Relay parameter table(HF158F-V)







File No.: E134517



File No.: 40032833



File No.: CQC17002176312



Features

- HVDC switching capability(10A 300VDC)
- 5kV dielectric strength (between coil and contacts)
- Creepage/Distance>10mm
- Meet the requirements of reinforced insulation
- Product in accordance to IEC60335-1 available
- Class F insulation system

RoHS compliant

CONTACT DATA	
Contact arrangement	1H
Contact Resistance	≤100mΩ
Contact material	AgSnO ₂
Contact rating	10A 300VDC/12A 277VAC
Max.switching voltage	420VDC/300VAC
Max.switching current	16A
Max.switching power	3000W/3324VA
Mechanical endurance	2×10 ⁶ OPS
Electrical endurance	1×10 ⁶ OPS (10A 300VDC,Res. 85℃, 1s ON,9s OFF) 1×10 ⁶ OPS (12A 277VDC,Res. 85℃, 1s ON,9s OFF)
CHARACTERISTIC	
Coil power	Approx. 400mW
Insulation resistance	1000MΩ(500VDC)
Dielectric strength	Between coil and contact: 5kVAC 1min
	Between open contact : 1.5kVAC 1min
Surge voltage	10kV(1.2 x 50μs)

Annex 3:Wiring terminal parameter table (HFLS1A-508/MABXX)



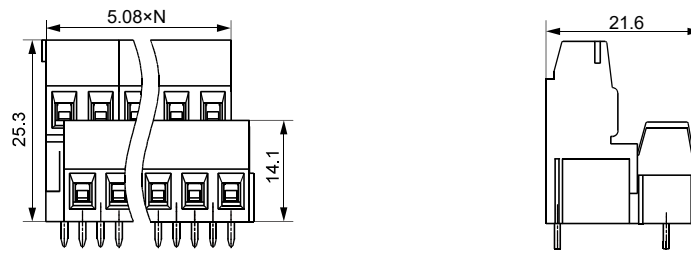
Features

- PCB terminal block,lifting screw connector with pressing frame
- Use a screwdriver for disassembly and assembly,with the torque of 0.4N·m

TECHNICAL SPECIFICATION	
Rated load	10A 300V(UL standard) /17.5A 250V(IEC standard)
Poles	2-24
Pitch	5.08mm
Conductor Cross Section	0.2~2.5mm ² (Solid wire) /0.25~1.5mm ² (Strand wire)
Rated Dielectric Strength	2200VAC/min
Rated Withstand Pulse Voltage	4kV
Ambient Temperature	-40℃~105℃
Striping Length	7mm
Tightening Torque	0.4N·m
Insulation Material Type/Insulation Material Group	PA/I

OUTLINE DIMENSIONS

Unit: mm



Remark:

- 1) Some outline dimensions of the product have no dimensional tolerance noted: outline dimension $\leq 1\text{mm}$, tolerance should be $\pm 0.2\text{mm}$; outline dimension $> 1\text{mm}$ and $\leq 5\text{mm}$, tolerance should be $\pm 0.3\text{mm}$; outline dimension $> 5\text{mm}$, tolerance should be $\pm 0.4\text{mm}$.
- 2) In the layout of PCB mounting holes, if no dimensional tolerance is noted, it shall be calculated as $\pm 0.1\text{mm}$.

Disclaimer:

The specification is for reference only. See to "Terminology and Guidelines" for more information. Specifications subject to change without notice. We could not evaluate all the performance and all the parameters for every possible application. Thus the user should be in a right position to choose the suitable product for their own application. If there is any query, please contact Hongfa for the technical service. However, it is the user's responsibility to determine which product should be used only.