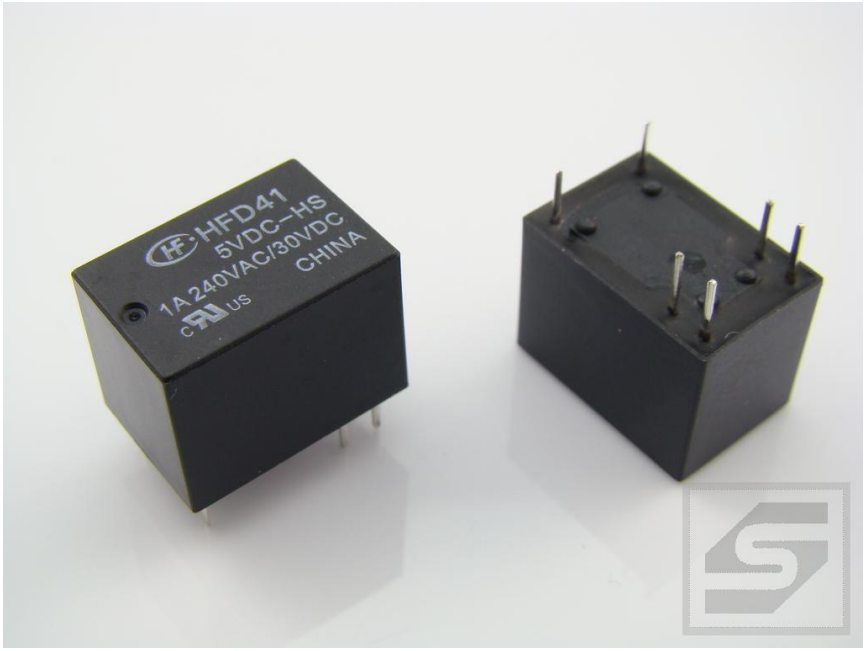
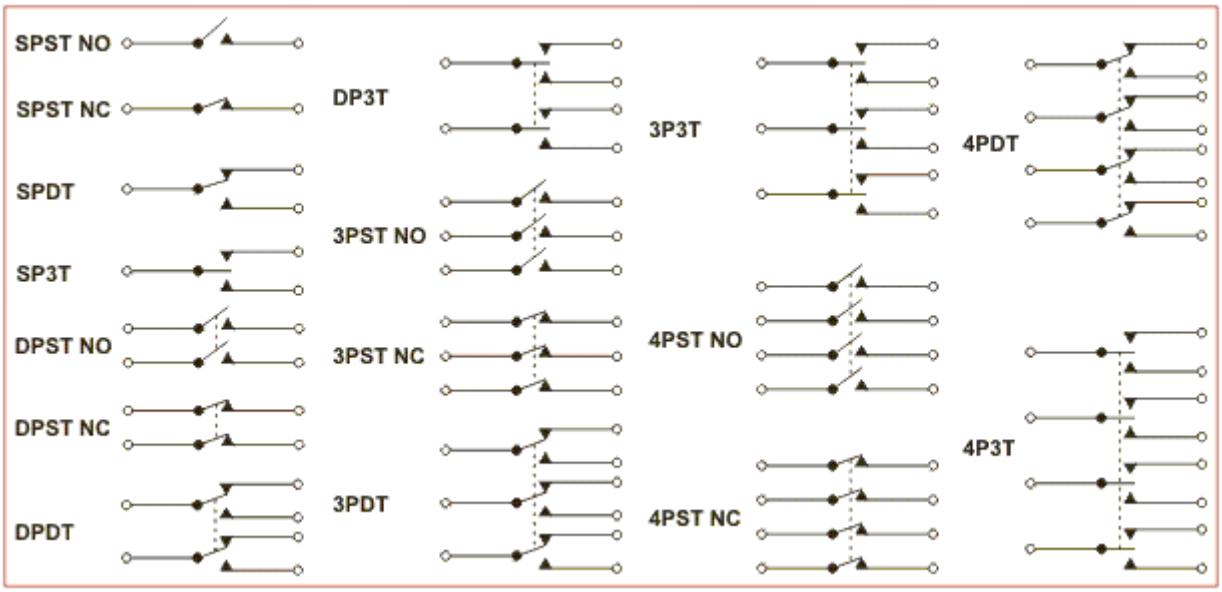
Przekaźnik HM4100F/HFD41-005VDC-HS HONGFA;SPDT;2A;5VDC



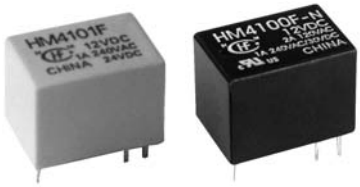
Dane techniczne:
Nazwa: HM4100F/HFD41-005VDC-HS
konfiguracja styków: SPDT (1 para styków przełącznych)
napięcie pracy cewki: 5 VDC
prąd styków: (max.) 2A
moc cewki: (typ.) 360mW
maksymalna moc łączeniowa: 30 W lub 240 VA
wyprowadzenia: do druku, raster 2.54 (rozstaw pasuje do podstawek DIP)
obudowa: szczelna
wymiary: 15.7 x 11 x 12mm
temperatura pracy: od -25°C do +55°C
Producent: HONGFA


SPST NO
SPST NC
SPDT
SP3T
DPST NO
DPST NC
DPDT
DP3T
3PST NO
3PST NC
3PDT
3P3T
4PST NO
4PST NC
4PDT
4P3T

HFD41/D41A SUBMINIATURE SIGNAL RELAY

c UL us
File No.:E170653

VDE
File No.:40000155



Features

- Extremely low cost
- 2A switching capability
- 1 Form C configuration
- Standard PCB layout
- Wash tight and flux proofed types available
- Environmental friendly product (RoHS compliant)
- Outline Dimensions: (15.7 x 11.0 x 12.0) mm

CONTACT DATA

Concat arrangement	1C
Contact resistance	100mΩ (at 1A 24VDC)
Contact material	AgNi
Contact rating (Res. load)	1A 125VAC/30VDC 1A 240VAC/30VDC 2A 125VAC, 3A 125VAC
Max. switching voltage	240VAC / 30VDC
Max. switching current	3A
Max. switching power	240VA / 30W
Mechanical endurance	1 x 10^7 OPS
Electrical endurance	1 x 10^5 OPS

CHARACTERISTICS

Insulation resistance		100MΩ (at 500VDC)
Dielectric strength	Between coil & contacts	1000VAC 1min
	Between open contacts	500VAC 1min
Operate time (at nomi. volt.)		10ms max.
Release time (at nomi. volt.)		5ms max.
Shock resistance	Functional	98m/s^2
	Destructive	980m/s^2
Vibration resistance		10Hz to 55Hz 1.5mm DA
Humidity		35% to 85% RH
Ambient temperature		-25˚C to 70˚C
Termination		PCB (DIP)
Unit weight		Approx. 5g
Construction		Wash tight, Flux proofed

Notes: 1) The data shown above are initial values.
2) Please find coil temperature curve in the characteristic curves below.

COIL

Coil power	B: 450mW; N: 360mW; H:200mW

COIL DATA at 23˚C

Nominal Voltage VDC	Pick-up Voltage VDC	Drop-out Voltage VDC	Max. Allowable Voltage VDC	Coil Resistance x (1±10%) Ω		
				H	N	B
3	2.3	0.3	3.9	45	25	20
5	3.8	0.5	6.5	120	70	56
6	4.5	0.6	7.8	180	100	80
9	6.8	0.9	11.7	400	220	180
12	9.0	1.2	15.6	700	400	320
24	18.0	2.4	31.2	2800	1600	1280

SAFETY APPROVAL RATINGS

UL&CUL	1A 125VAC/30VDC 1A 240VAC/30VDC 2A 125VAC
VDE (HFD41A)	1A 30VDC 1A 250VAC COSØ =1 2A 125VAC COSØ =1

Notes: Only some typical ratings are listed above. If more details are required, please contact us.

ORDERING INFORMATION

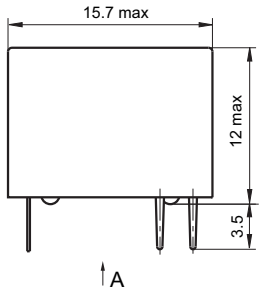
	HFD41 HFD41A	-012	-N	S	(XXX)
Type					
Coil voltage	3, 5, 6, 9, 12, 24 VDC				
Coil power	**B:** 450mW **N:** 360mW **H:** 200mW				
Construction	**S:** Wash tight **Nil:** Flux proofed				
Customer special code					

OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT

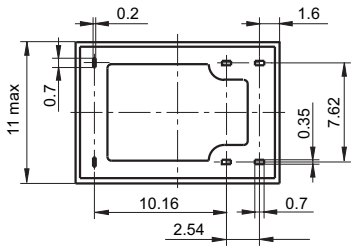
Unit: mm

Outline Dimensions

HFD41



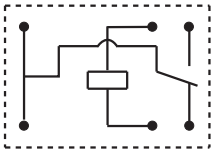
A direction



(Bottom view)

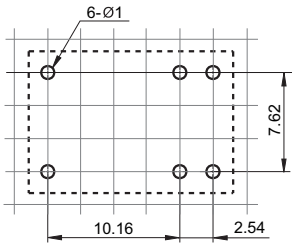
Wiring Diagram

(Bottom view)



PCB Layout

(Bottom view)

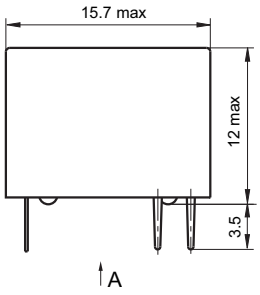


OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT

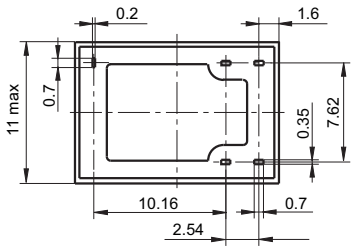
Unit: mm

Outline Dimensions

HFD41A



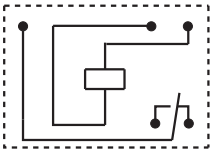
A direction



(Bottom view)

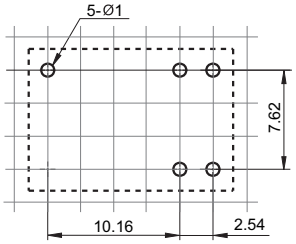
Wiring Diagram

(Bottom view)



PCB Layout

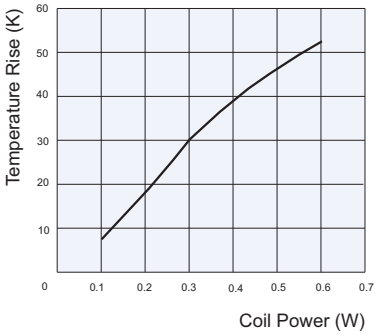
(Bottom view)



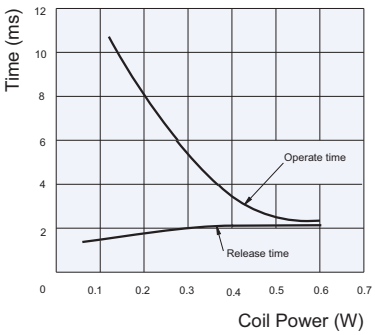
Remark: 1) In case of no tolerance shown in outline dimension: outline dimension ≤1mm, tolerance should be ±0.2mm; outline dimension >1mm and ≤5mm, tolerance should be ±0.3mm; outline dimension >5mm, tolerance should be ±0.4mm.
2) The tolerance without indicating for PCB layout is always ±0.1mm.
3) The width of the gridding is 2.54mm.

CHARACTERISTIC CURVES

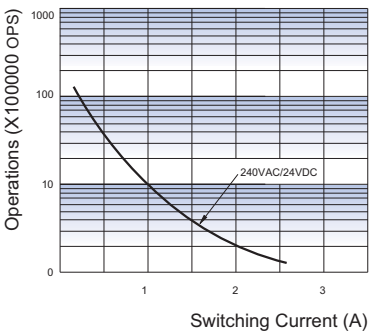
COIL TEMPERATURE RISE



OPERATE TIME



ENDURANCE CURVE



Disclaimer

This datasheet is for the customers' reference. All the specifications are 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.