

Datasheet

DPDT PCB Mount Non-Latching Relay, 16 A, 230V ac

RS Stock number 800-4473

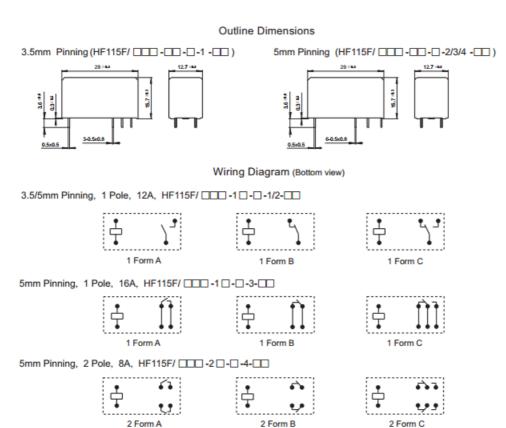
Dimensions: mm



File No.:116934



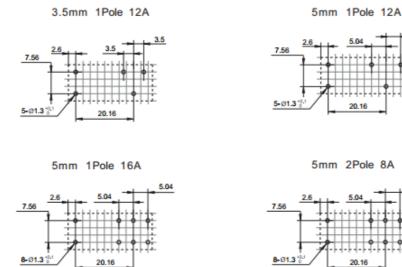




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PCB Layout (Bottom view)



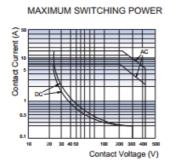
Remark: 1) In case of no tolerance shown in outline dimension: outline dimension ≤1mm, tolerance should be ±0.2mm; outline dimension >1mm and ≤5mm, tolerance should be ±0.3mm; outline dimension >5mm, tolerance should be ±0.4mm.

The tolerance without indicating for PCB layout is always ±0.1mm.

Operations (X10000 OPS)

3) The width of the gridding is 2.52mm.

Characteristic Curves



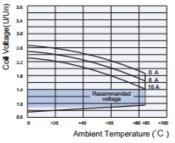
AstA 750/AC Bi12A 250/AC C:16A 250/AC

ENDURANCE CURVE

1.6 2.0 2.4 2.6 2.8 3.2 3.6 4 Breaking Capacity (kVA) COIL OPERATING RANGE (DC) *

5.04

5.04



es: * The use of a relay with an energising voltage other than the rated coil voltage may lead to reduced electrical life.

An energising voltage over the abver range may damage the insulation of relay coil.

Features

Low height- 15.7mm 16A switching capability 5kV dielectric strength (between coil and contacts) Creepage distance: 10mm Meeting VDE 0700,0631 reinforce insulation Product in accordance to IEC 60335-1 available Sockets available Plastic sealed and flux proofed types available UL insulation system: Class F available Environmental friendly product RoHS compliant



Contact Data

Contact arrangement: 1A, 1B, 1C / 2A, 2B, 2C Contact resistance: 100m Ω max. (at 1A 6VDC) Contact rating (Res.load) 12A/16A 250VAC / 8A 250VAC Max. switching voltage: 440VAC / 300VDC Max. switching current: 12A/ 16A / 8A Max. switching power: 3000VA ,4000VA / 2000VA Mechanical endurance: 1x10(7) OPS Electrical endurance: 1x10(5) OPS

Characteristics

Insulation resistance: 1000M Ω (at 500VDC) Dielectric Strength: Between coil & contacts 5000VAC 1min Between open contacts 1000VAC 1min Between contact sets 2500VAC 1min Surge voltage(between coil & contacts) 10kV (1.2/50us) Operate time (at nomi. Volt.): 15ms max Release time (at nomi. Volt.): 8ms max Temperature rise (at nomi. Volt.): 55K max Shock resistance: Functional 98m/s Destructive 980m/s Vibration resistance: 10Hz to 150Hz 10g/5g Humidity: 5% to 85% RH Ambient temperature: -40degC to 85deg **Termination: PBC** Unit weight: Approx. 13.5g **Construction: Plastic sealed** Flux Proof

Coil Coil power: Approx. 400mW

ENGLISH



Nominal Voltage VDC	Pick-Up voltage VDC max.	Drop- out voltage VDC min.	Max allowable voltage VDC.	Coil Resistance
5	3.50	0.5	7.5	62 x (1±10%)
6	4.20	0.6	9.0	90 x (1±10%)
9	6.30	0.9	13.5	202 x (1±10%)
12	8.40	1.2	18	360 x (1±10%)
18	12.60	1.8	27	810 x (1±10%)
24	16.80	2.4	36	1440 x (1±10%)
48	33.60	4.8	72	5760 x (1±15%)
60	42.00	6.0	90	7500 x (1±15%)
110	77.00	11.0	165	25200 x (1±15%)

Notes

The max allowable voltage in the coil data is coil overdrive voltage, it is the instantaneous max voltage which the relay coil could endure in a very short time.

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Safety approval Ratings (VDE)

Contact material	Specifications	Ratings	Ambient Temperature
	HF115F2(H;Z)(S)4(G)(F)	8A 250VAC	at 70°C
	HF115F1H(S)(1;2)(G)(F)	12A 250VAC	at 70°C
	hr Hor (6)(1,2)(6)(1)	10A 250VAC	at 70°C
AgCdO	HF115F1Z(S)(1;2)(G)(F)	12A 250VAC	at 70°C
Ageao		16A 250VAC	at 70°C
	HF115F1H(S)3(G)(F)	10A 250VAC	at 70°C
		9A 250VAC COSØ =0.4	at 70°C
	HF115F1Z(S)3(G)(F)	16A 250VAC	at 70°C
		9A 250VAC COSØ =0.4	at 70°C
	HF115F2(H;Z)(S)4B(G)(F)	5A 400VAC	at 85°C
		8A 250VAC	at 85°C
	HF115F1H(S)(1;2)B(G)(F)	12A 250VAC	at 85°C
	HF115F1Z(S)(1;2)B(G)(F)	12A 250VAC	at 85°C
	HF115F1H(S)3B(G)(F)	16A 250VAC	at 85°C
AgNi		12A 250VAC	at 85°C
		9A 250VAC COSØ =0.4	at 85°C
	HF115F1Z(S)3B(G)(F)	16A 250VAC (NO only)	at 85°C
		12A 250VAC	at 85°C
		9A 250VAC COSØ =0.4 (NO only)	at 70°C
		10(4)A 250VAC (NO only)	at 65°C
		12(2)A 250VAC (NO only)	at 65°C
	HF115F2(H;Z)(S)4A(G)(F)	8A 250VAC	at 85°C
	HF115F1(H;Z)(S)(1;2)A(G)(F)	12A 250VAC	at 85°C
AgSnO ₂	HF115F1H(S)3A(G)(F)	16A 250VAC	at 85°C
Agono2		9A 250VAC COSØ =0.4	at 70°C
	HF115F1Z(S)3A(G)(F)	16A 250VAC (NO only)	at 85°C
		9A 250VAC COSØ =0.4 (NO only)	at 70°C

UL/CUL

	12A 277VAC		16A 277 VAC
Version 1 or 2 (AgCdO)	1/2HP 250VAC		1/3HP 125VAC
	1/3HP 125VAC	Version 3 (AgSnO ₂)	1/2HP 250VAC
	12A / 277VAC		B300
Version 1 or 2 (AgSnO ₂)	B300		R300
	R300	Version 3 (AgNi)	16A 277VAC
Version 1 or 2 (AgNi)	12A 277VAC	Version 5 (Agivi)	5FLA, 30LRA 250VAC
	16A 277 VAC		10A 250VAC
	9A 250VAC at 105°C	Version 4 (AgCdO)	8A 277VAC
Version 3 (AgCdO)	1HP 250VAC		1/2HP 250VAC
	1/2HP 125VAC		1/4HP 125VAC
	TV-5 125VAC	Version 4 (AgSnO ₂)	8A 277VAC
		Version 4 (AgNi)	8A 277VAC

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

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