## 976 Relay Slim-Line PCB Mount Relay/One and Two Pole 5 - 20 Amp Rated (DC and AC)



General Specifications	(UL 508)		976XAXH 976XXAH	976XAX97H 976XXA97H	976XXBH 976XBXH
Contact Characteristics		Units	12 Amp	20 Amp	5 Amp
Number and type of Contacts			SPDT <sup>*</sup>	SPDT <sup>*</sup>	DPDŤ
Contact materials			Silver Alloy	Silver Alloy	Silver Alloy
Thermal (Carrying) Current		Α	12	20	5
Maximum Switching Voltage		V	300	300	300
Switching Current @ Voltage	~	Resistive	12A @ 240	20A @ 125	5A @ 240
			50/60Hz (NO)	50/60 Hz	50/60 Hz
			10A @ 240	16A @ 240	
			50/60Hz (NO)	50/60 Hz	
	=	Resistive	12A @ 30V (NO)	20A @ 30 V	5 @ 30 V
			10A @ 30V (NC)	10A @ 48 V	
Coil Characteristics					
Voltage Range	~	V	6240	6240	6240
		V	3110	3110	3110
Operating Range	% of Nominal ~		85% to 110%	85% to 110%	85% to 110%
	= =		85% to 110%	85% to 110%	85% to 110%
Average consumption	~	VA	1.2	1.2	1.2
	=	W	0.53	0.53	0.53
Drop-out voltage threshold	~		30%	30%	30%
5 f 6l	=		10%	10%	10%
Performance Characteristics					
Electrical Life	Operations @ Rated Current (Resistive)		100,000	100,000	100,000
Mechanical Life	Unpowered		10,000,000	10,000,000	10,000,000
Operating time (response time)		ms	15	15	15
Dielectric	Between coil and contact	V	5000	5000	5000
	Between contacts ←	V	1000	1000	1000
Environment					
Product certifications	Standard version		UL, TUV	UL, TUV	UL, TUV
Ambient air temperature	Storage	°C	-40+85	-40+85	-40+85
around the device	Operation	°C	-40+55	-40+55	-40+55
Vibration resistance	Operational	g-n	3, 10 - 55 Hz	3, 10 - 55 Hz	3, 10 - 55 Hz
Shock resistance	•	g-n	10	10	10
Weight		grams	17	17	17

976AXXH

976AXX97H

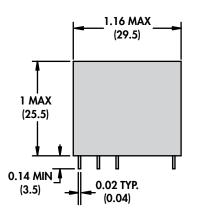
### Part Number Builder

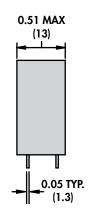
976	XBX	97	Н	-24	Α
Series	Contact Configuration	Construction	Type of Seal	Coil Voltage	Current Type
976	AXX = SPST - NO	97 = 20A Single Pole Relay	H = Epoxy Sealed	5 = 5 VDC	D = DC Coil
	XAX = SPDT	Blank = Not 20A Construction		6 = 6 VDC	A = AC Coil
	XBX = DPDT			12 = 12 VDC	
				24 = 24 VDC	
				24 = 24 VAC	
				120 = 120 VAC	
				240 = 240 VAC	

#### **Standard Part Numbers**

#### **BOLD-FACED PART NUMBERS ARE NORMALLY STOCKED**

Nominal Input Voltage	Nominal Coil Resistance (Ω)	Part Number	Cl	C + + C (* · · ·	
5 Amp, DC Operated Coil	(/	raii Number	Supercedes	Contact Configuration	Figure
5 VDC	47 O	976XBXH-5D	76EURCPCX-61	DPDT	Α
6 VDC	68 Ω	976XBXH-6D	76EURCPCX-62	DPDT	Α
12 VDC	270 Ω	976XBXH-12D	76EURCPCX-63	DPDT	Α
24 VDC	1100 Ω	976XBXH-24D	76EURCPCX-64	DPDT	Α
20 Amp, DC Operated Coil					
5 VDC	47 Ω	976XAX97H-5D	76EURCPCX-146	SPDT	В
6 VDC	68 Ω	976XAX97H-6D	76EURCPCX-147	SPDT	В
12 VDC	270 Ω	976XAX97H-12D	76EURCPCX-148	SPDT	В
24 VDC	1100 Ω	976XAX97H-24D	76EURCPCX-149	SPDT	В
12 Amp, DC Operated Coil					
5 VDC	47 Ω	976XAXH-5D	76EURCPCX-14	SPDT	С
6 VDC	68 Ω	976XAXH-6D	76EURCPCX-15	SPDT	С
12 VDC	270 Ω	976XAXH-12D	76EURCPCX-16	SPDT	С
24 VDC	1100 Ω	976XAXH-24D	76EURCPCX-17	SPDT	С
5 Amp, AC Operated Coil					
24 VAC 50/60 Hz	250 Ω	976XBXH-24A		DPDT	Α
120 VAC 50/60 Hz	5600 Ω	976XBXH-120A		DPDT	Α
240 VAC 50/60 Hz	22000 Ω	976XBXH-240A		DPDT	Α
20 Amp, AC Operated Coil					
24 VAC 50/60 Hz	250 Ω	976XAX97H-24A		SPDT	В
120 VAC 50/60 Hz	5600 Ω	976XAX97H-120A		SPDT	В
240 VAC 50/60 Hz	22000 Ω	976XAX97H-240A		SPDT	В
12 Amp, AC Operated Coil					
24 VAC 50/60 Hz	250 Ω	976XAXH-24A		SPDT	С
120 VAC 50/60 Hz	5600 Ω	976XAXH-120A		SPDT	C
240 VAC 50/60 Hz	22000 Ω	976XAXH-240A		SPDT	С





#### DRAWING AND PIN SPACINGS SHOWN AT 100% OF ACTUAL SIZE

WIRING DIAGRAMS
TOP VIEW

# CIRCUIT BOARD PIN SPACING VIEWED FROM COMPONENT SIDE (TOP VIEW)

