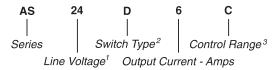
6A to 600 Vac SIP Package DC control

A Unit of Teledyne Electronics and Communications

Part Number	Description
AS24D6C	6A, 280 Vac
AS60D6C	6A, 600 Vac

Part Number Explanation



NOTES

- 1) Line Voltage: 24 = 280 Vac; 60 = 600 Vac
- 2) Switch Type: D = Zero-cross turn-on
- 3) Control Range: C = 4-14 Vdc

MECHANICAL SPECIFICATION

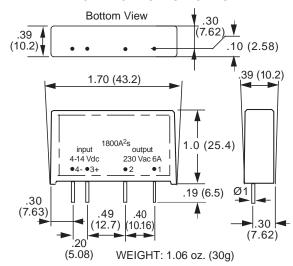


Figure 1 – AS6 relays; dimensions in inches (mm)

INPUT (CONTROL) SPECIFICATION

	Min	Max	Units
Control Range	4	14	Vdc
Input Current	6.5	30	mAdc
Must Turn-Off Voltage		1	Vdc
Input Resistance (Typical)		440	Ohms

BLOCK DIAGRAM

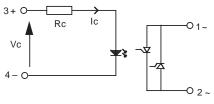


Figure 2 - AS6 relays



FEATURES/BENEFITS

- · Industry standard package
- · High in-rush capabilities
- Tight zero-cross window for low EMI
- · Low input current draw
- · High dv/dt capability
- · High immunity to surges

DESCRIPTION

These solid-state single inline package (SIP) relays are designed for mounting on printed circuit boards and intended mainly for interface applications. The relays integrate 50A thyristors to switch permanent 6A currents. They can withstand very high current overloads. The relays incorporate a direct-bonded copper substrate. This technology offers outstanding thermal efficiency as well as thermal stress performance, which together significantly increase life expectancy.

APPLICATIONS

- Interface applications
- · Vending machines
- Light/Lamp control
- Contactor driver
- Fan speed control
- HVAC controls

APPROVALS

All models are UL recognized. UL File Number: E128555.

TYPICAL APPLICATION

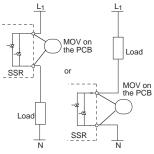


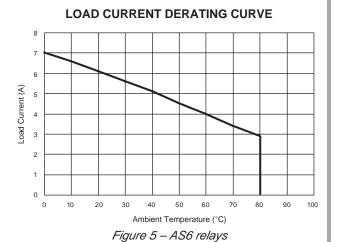
Figure 3 – AS6 relays



A Unit of Teledyne Electronics and Communications

OUTPUT (LOAD) SPECIFICATION					
	Min	Max	Unit		
Operating Range					
AS24D6C	12	280	Vrms		
AS60D6C	24	600	Vrms		
Peak Voltage					
AS24D6C		600	VPeak		
AS60D6C		1200	VPeak		
Load Current Range	.005	6	Arms		
(See Figure 5)					
Maximum Surge Current	Rating (Nor	n-Repetitiv	/e)		
(See Figure 6)		600	APeak		
On-State Voltage Drop		1.6	V		
Zero-Cross Window (Typ	ical)	12	V		
Off-State Leakage Currer	age Current (60Hz) 1		mA		
Turn-On Time (60Hz)		8.3	ms		
Turn-Off Time (60Hz)		8.3	ms		
Off-State dv/dt	500		V/µs		
(Non-Repetitive)					
Operating Frequency	10	440	Hz		
I ² t for Match Fusing (<8.3ms)		1800	A ² S		

ENVIRONMENTAL SPECIFICATION				
	Min	Max	Unit	
Operating Temperature	-40	80	°C	
Storage Temperature	-40	120	°C	
Input-Output Isolation	4000		Vrms	





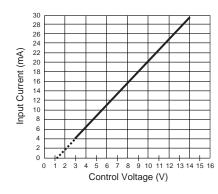


Figure 4 – AS6 relays

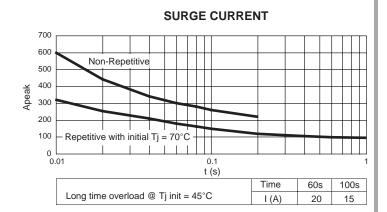


Figure 6 — AS6 Relays

NOTES:

- 1. External MOV recommended for inductive loads.
- 2. HS and LS Series relays available for higher current.
- 3. Electrical specifications at 25°C unless otherwise specified.
- 4. For 800Hz applications, contact factory.5. For additional/custom options, contact factory.