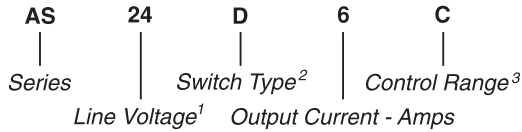


Part Number	Description
AS24D6C	6A, 280 Vac
AS60D6C	6A, 600 Vac

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

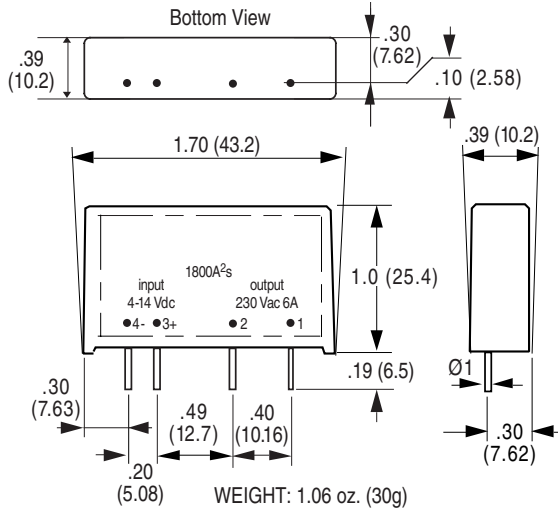


Figure 1 – AS6 relays; dimensions in inches (mm)

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

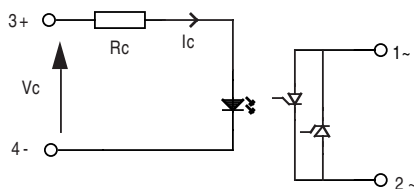
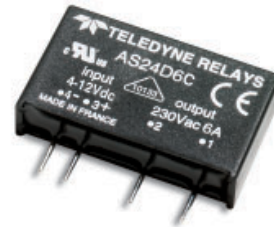


Figure 2 – AS6 relays



FEATURES/BENEFITS

- Industry standard package
- High in-rush capabilities
- Low zero cross turn-on level
- 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

The Series AS6 relays are UL recognized.

TYPICAL APPLICATION

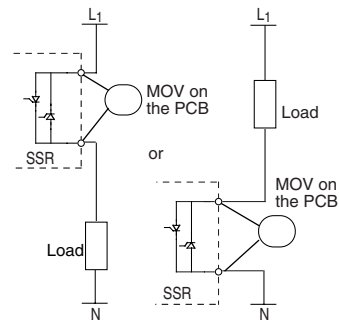


Figure 3 – AS6 relays

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 (See Figure 5)	.005	6	Arms
Maximum Surge Current Rating (Non-Repetitive, See Figure 6)		600	A _{Peak}
On-State Voltage Drop		1.6	V
Off-State Leakage Current (60Hz)		1	mA
Zero Cross Window (Typical)		12	V
Turn-On Time (60Hz)		8.3	ms
Turn-Off Time (60Hz)		8.3	ms
Operating Frequency	10	440	Hz
Off-State dv/dt (Non-Repetitive)	500		V/μs
I ² t for Match Fusing (<8.3ms)		1800	A ² S

ENVIRONMENTAL SPECIFICATION

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

LOAD CURRENT DERATING CURVE

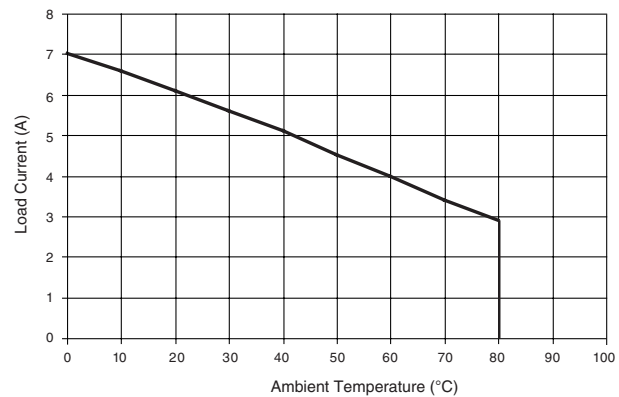


Figure 5 – AS6 relays

CONTROL CHARACTERISTIC

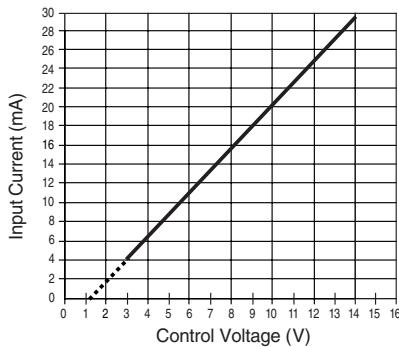


Figure 4 – AS6 relays

SURGE CURRENT

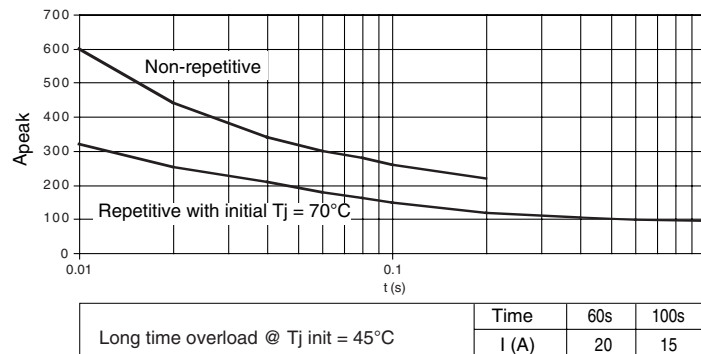


Figure 6 — AS6 Relays

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.