



APPLE - HSM (AC) SOLID STATE RELAY



GENERAL	
Operating temperature	- 30 deg. C to 80 deg. C
Operating frequency	47 Hz to 63 Hz
I / O Insulation	2 kV
I / O Isolation base	4 / 6 kV
Weight	@ 30 g
Dimensions (L* B * H)	Refer Diagram
LED ON indication on request	

SALIENT FEATURES:

- 2 KV ISOLATION.
- LOW INPUT CURRENT.
- ZERO VOLTAGE & RANDOM TURN ON.
- TRIAC OUTPUT.
- TRANSIENT IMMUNITY.
- FASTER SWITCHING RESPONSE.
- NO NOISE FEEDBACK FROM OUTPUT TO INPUT.
- INPUT REVERSE VOLTAGE PROTECTION.
- A LONGER LIFETIME DUE TO CONTACTLESS SYSTEM.

TECHNICAL DATA (@ TA = 25 ° C)

INPUT	MIN	MAX		UNIT
INPUT ON VOLTAGE	5	28		V D.C.
INPUT OFF VOLTAGE		2		V D.C.
INPUT CURRENT	8	22		mA
OUTPUT	SYMBOL	ZERO SWITCHING		UNIT
MAX NOMINAL RMS CURRENT	I_T	4	7	A
LINE VOLTAGE		280	280	V A.C.
MIN LINE VOLTAGE		24	24	V A.C.
SYNCHRONISING VOLTAGE		5-20	5-20	V _{PK}
MAX ON STATE VOLTAGE DROP	V_{TM}	1.6	1.6	V _{RMS}
PEAK ONE CYCLE SURGE ON STATE CURRENT	I_{TSM}	35	40	A
LEAKAGE CURRENT	I_{DRM}	50	50	mA
TURN ON TIME	T_{ON}	10 (0.05)	10 (0.05)	mS
TURN OFF TIME	T_{OFF}	10	10	mS
RATE OF RISE OF OFF STATE VOLTAGE	dv / dt	100	100	V/mS
HOLDING CURRENT	I_{HO}	50	50	mA
FUSING CURRENT	I^2t	36	40	A ² S
THERMAL RESISTANCE (JUNCTION-CASE)	Θ_{JC}	4	4	°C/W

NOTE:

1. Ratings are based on single mounted unit in free airflow for closely packed units. Careful consideration of ambient temperature will be necessary on account of restricted airflow.
2. Use of metal oxide varistor for transient voltage protection, and semi conductor protection is recommended.
3. For load current above 3A, heat sink is to be used. To select heat sink, consult manufacturer.
4. Ensure correct input supply, relay operation may be erratic for inputs between 1-4VDC.
5. For ordering information, please refer to the **SOLID STATE RELAY SELECTION GUIDE**.

Specifications subject to change without notice.

