

RELE' STATICI SERIE SSR01 / SSR02 / SSR05 SSR01 / SSR02 / SSR05 SERIES SOLID STATE RELAYS



- * Misure ridotte 28x15x5mm
- * Very slim design 28x15x5mm
- * Alta velocità commutazione
- * High switching speed
- * Basso assorbimento ingresso
- * Low control power
- * Uscita 2A-24VDC o 100mA 48VDC e 2A-240VAC
- * 2A-24VDC or 100mA-48VDC output and 2A-240VAC output

TABELLA SELEZIONE RELE' - RELAY SELECTION TABLE

Corrente di uscita Output current	Tens. nominale uscita Nominal output voltage	Tensione di ingresso Input voltage	Modello Model
2A (Ta=60°C) Mos-Fet	24 VDC	3-12 VDC	SSR05D-224
		15-30 VDC	SSR01D-224
		35-72 VDC	SSR02D-224
100mA (Ta=60°C) Transistor	48 VDC	3-12 VDC	SSR05D-0148
		15-30 VDC	SSR01D-0148
		35-72 VDC	SSR02D-0148
2A (Ta=60°C) Triac	240 VAC	3-10 VDC	SSR05A-2240
		15-30 VDC	SSR01A-2240
		35-72 VDC	SSR02A-2240

CONFORMI ALLE NORMATIVE EC - EC REFERENCE STANDARDS :
HD419.2SI / CEI 17.38 / IEC 158-2 / CEE 73-23 CEE 93-68
CERTIFICAZIONI UL-CSA / UL-CSA CERTIFICATION
File N. E234472 (Temperatura ambiente 60°C / Surrounding air 60°C)

DATI TECNICI USCITA MODELLI SSR01D/02D/05D SSR01D/02D/05D MODEL OUTPUT TECHNICAL DATA

Tensione nominale Nominal voltage	24VDC	48VDC
Corrente uscita Output current	2A (TA 60°C) 3A (TA 20°C)	100mA (TA60°)
Range tensione di carico Load voltage range	0...24VDC	0...48VDC
Tensione di blocco Maximum block voltage	33VDC	60VDC
Caduta tensione in uscita Output voltage drop	<120 mV DC	<1V DC
Corrente minima di funzionamento Minimum working current	50microA	50microA

DATI TECNICI ENTRATA MODELLI SSR01D/02D/05D SSR01D/02D/05D MODEL INPUT TECHNICAL DATA

Tensione nominale ingresso Nominal control voltage	5 VDC	24 VDC	60 VDC
Tensione minima ingresso Minimum control voltage	3 VDC	15 VDC	35 VDC
Tensione massima ingresso Maximum control voltage	12 VDC	30 VDC	72VDC
Corrente input U _{in} = 5VDC / 24VDC / 60VDC Control current U _{in} =5VDC <7.24VDC / 60VDC	7,5mADC +/-10%	7mADC +/-10%	3mADC +/-10%
Tensione di disinnesco Control drop-out voltage	<3 VDC	<15VDC	<35 VDC
Impedenza ingresso Control circuit resistance	ca.500ohm	ca.3200ohm	ca.21,3Kohm

DATI TECNICI ENTRATA/USCITA MODELLI SSR01D/02D/05D SSR01D/02D/05D MODEL INPUT/OUTPUT TECHNICAL DATA

Tempo di innesco Turn on time	Mod. SSR01D/02D/05D-224	< 60us
	Mod. SSR01D/02D/05D-0148	< 40us
Tempo di disinnesco Turn off time	Mod. SSR01D/02D/05D-224	< 600us
	Mod. SSR01D/02D/05D-0148	< 600us
Isolamento Isolation voltage		2,5kV



1 - RELÈ ALLO STATO SOLIDO
1 - SOLID-STATE RELAYS

DATI TECNICI USCITA PER MOD. SSR01A/02A/05A
OUTPUT TECHNICAL DATA FOR MOD. SSR01A/02A/05A

Tensione nominale Nominal voltage	240
Corrente uscita Output current	2A (Ta=60°C)
Range tensione di carico Load voltage range	12-275VAC
Picco ripetitivo allo stato di OFF Repetitive peak off-state voltage	600 VAC
Corrente di spunto non ripetitiva Non repetitive surge peak on state current	40A t=20ms-60Hz
I^2t per scelta fusibile I^2t rating	t=10ms 6,6A ² /S
Tempo critico salita tensione allo stato di off critical rate of rise of off-state voltage	dv/dt 500V/ μ S
Caduta tensione in uscita Output voltage drop	<1,6VAC
Perdita di corrente allo stato di off Off-state leakage current	<1,5mA
Corrente minima di funzionamento Minimum working current	22mA

DATI TECNICI ENTRATA MODELLI SSR01A/02A/05A
SSR01A/02A/05A MODEL INPUT TECHNICAL DATA

Tensione nominale ingresso Nominal control voltage	5 VDC	24 VDC	60 VDC
Tensione minima ingresso Minimum control voltage	3 VDC	15 VDC	35VDC
Tensione massima ingresso Maximum control voltage	10 VDC	30 VDC	72VDC
Corrente input Uin= 5VDC / 24VDC / 60VDC Control current Uin=5VDC / 24VDC / 60VDC	12mADC +/-10%	7mADC +/-10%	3,5mADC +/-10%
Tensione di disinnescio Control drop-out voltage	<3 VDC	<15VDC	<35 VDC
Impedenza ingresso Control circuit resistance	ca.320ohm	ca.3200ohm	ca.16,7Kohm

DATI TECNICI ENTRATA/USCITA MODELLI SSR01A/02A/05A
SSR01A/02A/05A MODEL INPUT/OUTPUT TECHNICAL DATA

Massimo ritardo chiusura per commutazione zero crossing Maximum closing delay for zero crossing commutation	1/2 Ciclo
Massimo ritardo apertura per commutazione zero crossing- istantanea Maximum opening delay for zero crossing-instant commutation	1/2 Ciclo
Isolamento Isolation voltage	2,5kV

DATI TERMICI (Tutti i modelli)
THERMAL DATA (All models)

Temperatura di funzionamento Operating-temperature	-30/+80°C
Temperatura di stoccaggio Storage temperature	-40/+100°C

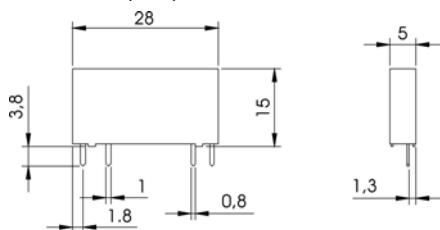
ACCESSORI - ACCESSORIES

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VARISTORI (MOV) - METAL OXIDE VARISTORS (MOV.) pag. 33

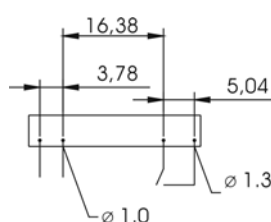
Dimensioni (mm)

Dimension (mm)



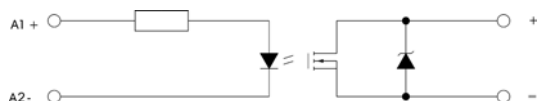
Layout fori montaggio

Mounting hole Layout

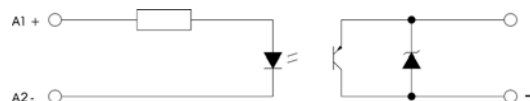


Connessioni
Connectors

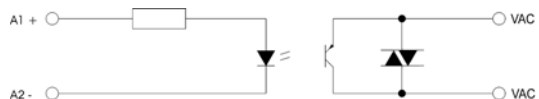
Circuito semplificato 2A - 24 VDC versione con MOS-FET di uscita
Simplified circuit diagram 2A version whit MOS-FET Output



Circuito semplificato 100mA -48 VDC versione con transistor di uscita
Simplified circuit diagram 100mA version whit bipolar Transistor Output

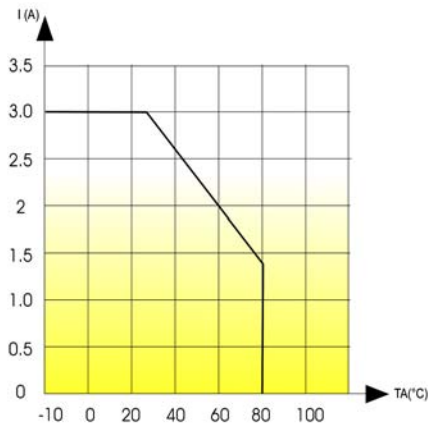


Circuito semplificato 2A - 240 VAC versione con TRIAC di uscita
Simplified circuit diagram 2A-240 VAC version whit TRIAC Output



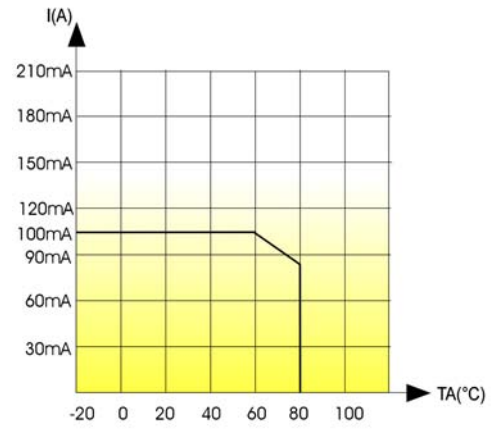


Modello SSR01D/02D/05D-24D
Model SSR01D/02D/05D-24D



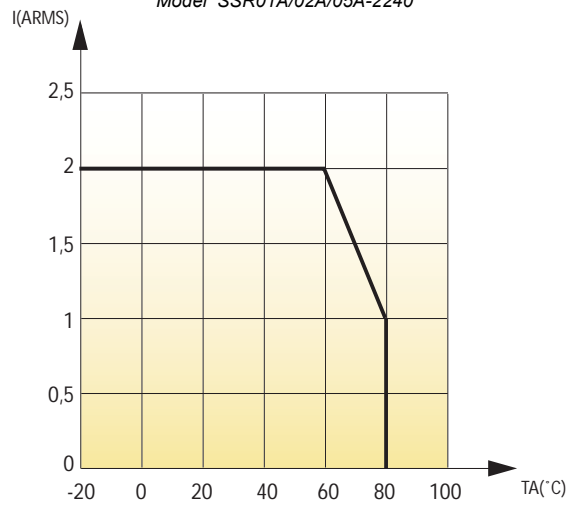
Corrente di carico / Temperatura ambiente
Load current / Ambient temperature

Modello SSR01D/02D/05D-0148
Model SSR01D/02D/05D-0148



Corrente di carico / Temperatura ambiente
Load current / Ambient temperature

Modello SSR01A/02A/05A-2240
Model SSR01A/02A/05A-2240



Corrente di carico / Temperatura ambiente
Load current / Ambient temperature