

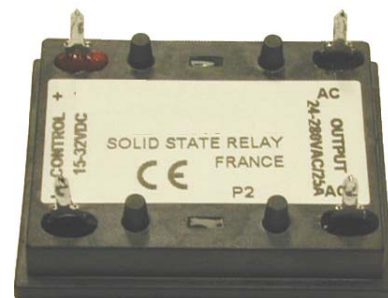
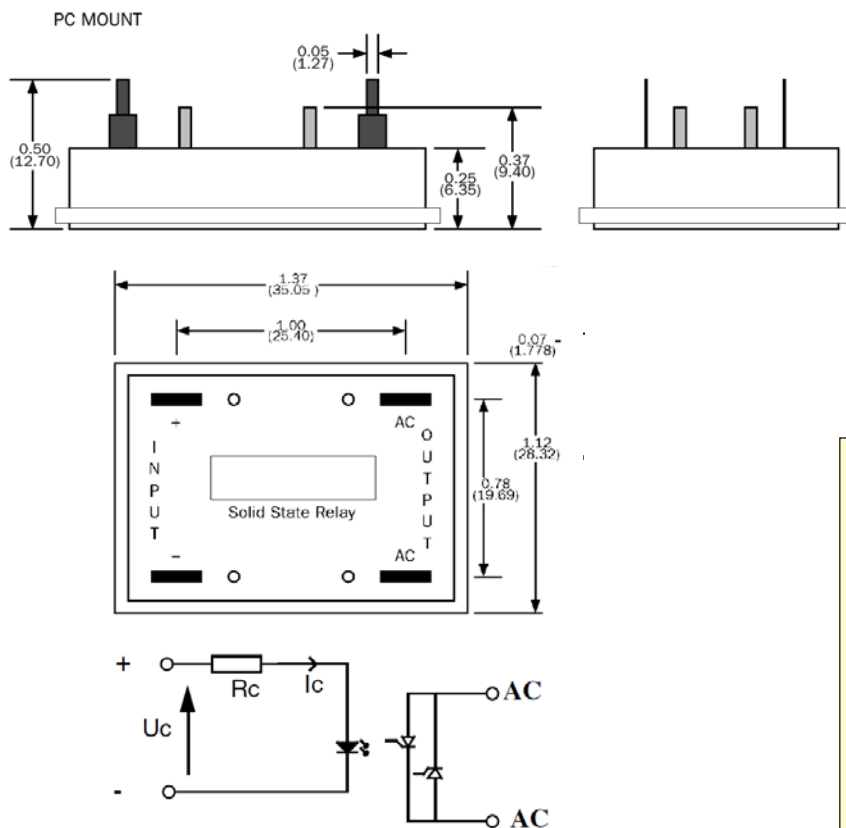
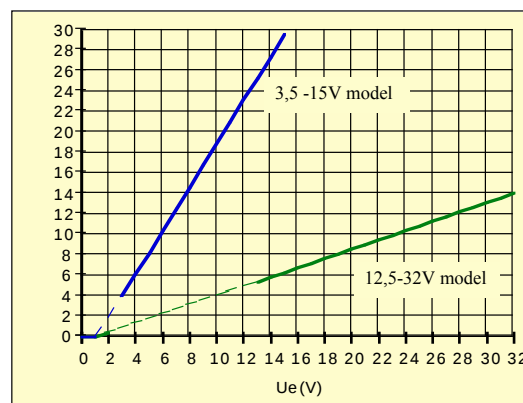
Relais Statique pour circuit imprimé *Solid State Relay for printed circuit board*

SN842x00

25A/280VAC output
3.5-15VDC control

or

15-32VDC control


fig 1 : Control $I_c = f(U_c)$


Caractéristiques de commande (à 20°C) / Control characteristics (at 20°C)

		DC			DC			
		SN842100			SN842500			
Paramètre / Parameter	Symbol	Min	Nom	Max	Min	Nom	Max	Unit
Tension de commande / Control voltage	Uc	3,5		15	12,5		32	V
Courant de commande / Control current (@ Uc)	Ic	5		30	5		14	mA
Tension de relachement/Release voltage	Uc off	1			1			V
Résistance interne / Input internal resistor fig.1	Rc		470			2200		Ω
Tension inverse / Reverse voltage	Urv		15			32		V

Caractéristiques d'entrée-sortie (à 20°C) / Input-output characteristics (at 20°C)

Isolement entrée-sortie/Input-output isolation @500m	U_i	4000			4000			V
Isolement sortie-semelle/Output-case isolation @500m	U_i	4000			4000			V
Tension assignée isolement/ Rated impulse voltage	U_{imp}	4000			4000			V

Caractéristiques générales / General characteristics

Paramètre / Parameter	Conditions	Symbol	Typ.	Unit
Poids/Weight			11,5	g
Plage de température de stockage / Storage temperature range			-40 / +100	°C
Plage de température de fonctionnement/Operating temperature range			-40 / +100	°C

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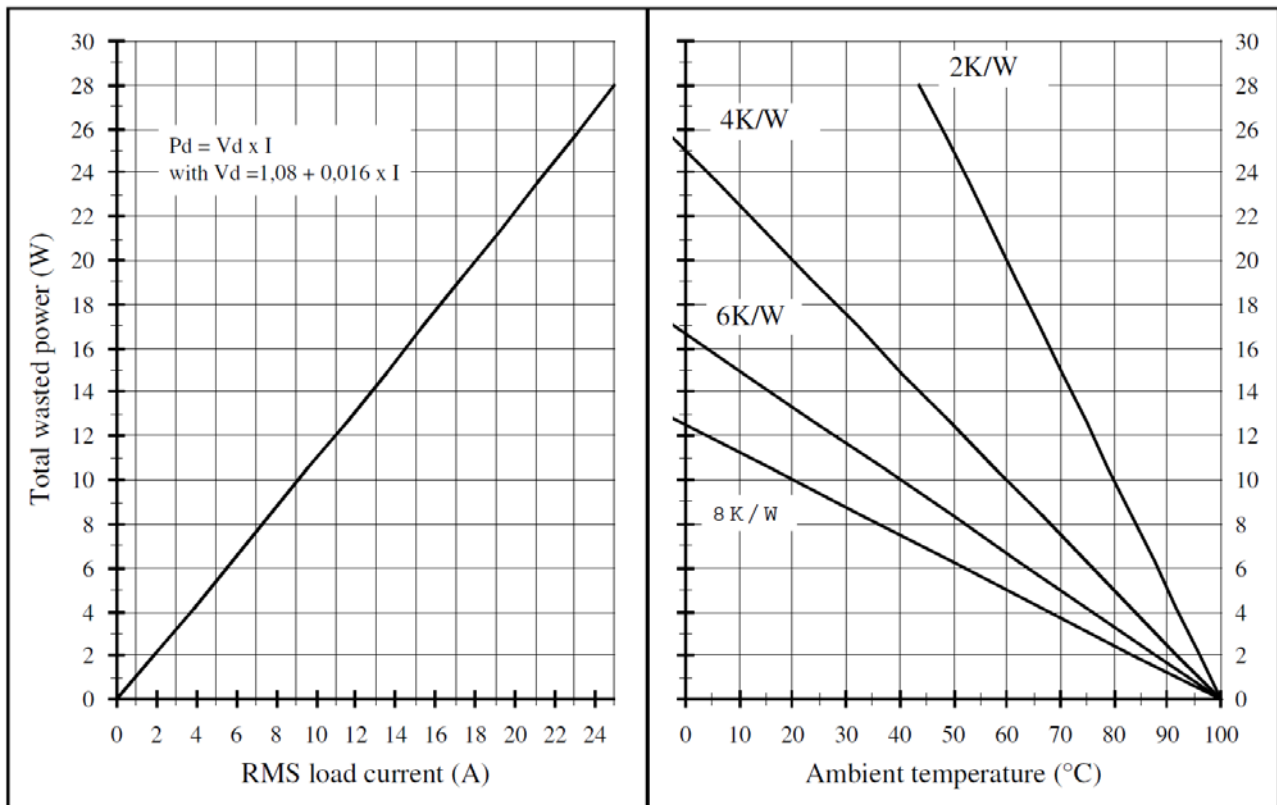
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Caractéristiques sujettes à modifications sans préavis.

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Caractéristiques de sortie(à 20°C) / Output characteristics (at 20°C)

Paramètre / Parameter	Conditions	Symbol	Typ.	Unit
Tension de charge / Load voltage		Ue	230	V rms
Plage tension de fonctionnement / Operating range		Ue min-max	24-280	V rms
Tension crête (écrêteur de tension) / Peak voltage (clamping voltage)		Up	600	V
Niveau de synchronisation / Synchronizing level		U _{sync}	25	V
Tension d'amorçage / Latching voltage	Ie nom	Ua	10	V
Courant nominal AC-51/ AC-51 nominal current	(see Fig. 2)	Ie AC-51	25	A rms
Courant nominal AC-53/ AC-53 nominal current				
Courant de surcharge non répétitif /Non repetitive overload current	tp=16,3ms (Fig. 3)	I _{tsm}	250	A
Chute tension directe crête/ On state voltage drop	@ Ie nom	Vd	1,08 + 0,016 x I	V
Thermal resistance between junction to case :Rthj/c			0,7 (*)	K/W
Courant de fuite état bloqué/ Off state leakage current	@Ue, 60Hz	I _{lk}	<1	mA
Courant de charge minimum / Minimum load current		Ie min	50	mA
Temps de fermeture/ Turn on time	Uc nom DC ,f=60Hz	ton max	8,3	ms
Temps d'ouverture/ Turn off time	Uc nom DC ,f=60Hz	toff max	8,3	ms
Plage de fréquence / Operating frequency range		f	47-440	Hz
dv/dt état bloqué / Off state dv/dt		dv/dt	500	V/μs
I ² t (<10ms)	60hz	I ² t	260	A ² s

(*) This product is built with a thermal pad, you have to take the thermal resistance of the contact (about 0,2K/W) into account.

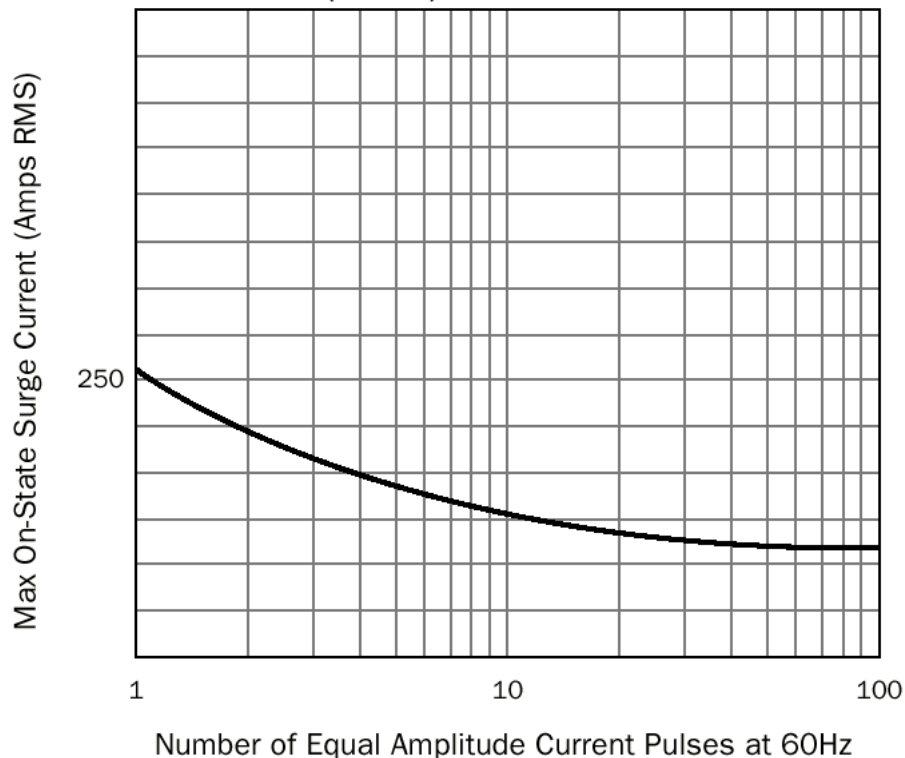


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FIGURE 1 Max Non-Repetitive Surge Current
(Note 3)



Voltage protection :

An external voltage protection by VDR is advised in case of overvoltages on the mains.

The input of these relays is built with a current regulator . In case of overvoltages , the input can be damaged.

So don't put a coil of an electromechanical relay in parallel with the input without voltage protection.

