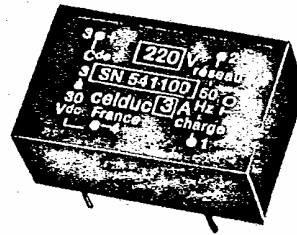


3000 - crossing  
 celduc series SN5 relays are synchronous low power relays with output connectors for printed circuit board assembly, they will enable 3 Amps to be switched under a voltage rating of 24 to 240 Volts A.C.

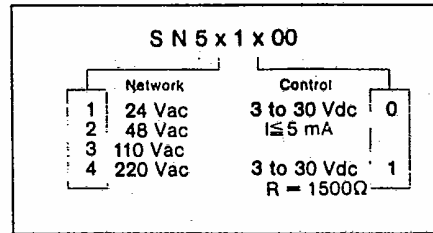
Input/ Output coupling is by opto-coupler, this guarantees an isolation value of 2500 Vr.m.s  
 3 to 30 Vdc input for simple adaptation to the majority of all electronic control systems.



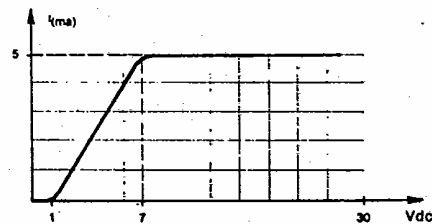
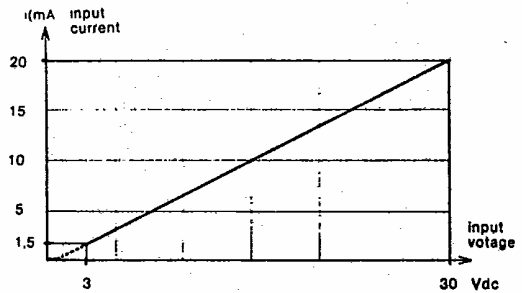
References UL Approval - E69913

Input characteristics (at 20° C)	SN5 1000	SN5 1100	
Nominal voltage	3	3	Vdc
Maximum control voltage	30	30	Vdc
operating voltage	3-30	3-30	Vdc
Operating current	1.5	1.5	mA
Maximum control current	20	5	mA
Drop-out voltage	0.8	1	Vdc
Internal resistance R	1500	-	Ω
<b>Output characteristics (at 20° C)</b>			
nominal voltage *	220		Veff
Operating voltage range	24 to 280		Veff
Peak voltage	600		V peak
Synchronizing level	± 20		V peak
Nominal current (see curve 1 - I(θ))	3		A
Accidental overload current (max.) (see curve 1 - I(no of cycles))	80		A peak
DC voltage drop (10 A)	1.1		Veff
Stray current in off-state (at U nominal 50 Hz)	6		mA
Internal RC network	no		
Holding current	50		mA
Turn-on time	½ cycle max. (zero voltage)		
Turn-off time	½ cycle max. (zero current)		
Operating frequency	10 at 440		Hz
dv/ dt in off-state	200		V/ μs
dv/ dt commutating	5		V/ μs
I²t	24		A²S
di/ dt non repetitive	50		A/ μs
di/ dt repetitive	10		A/ μs
<b>General characteristics</b>			
Storage temperature	-40 to +150		°C
Operating temperature	-40 to +90		°C
Input/ output isolation voltage	2500		Veff
Input/ output capacity	8		pF
Weight	20		g

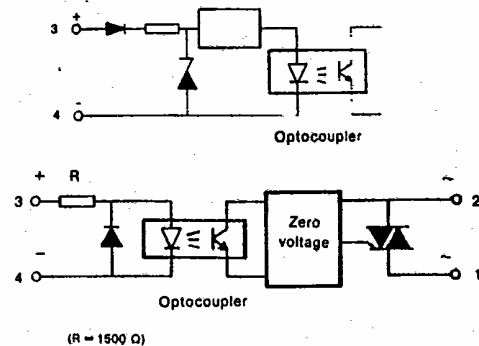
\* For the 24, 48 and 1100 Volt models, only the synchronization levels and stray currents are different (in proportion with the voltage).

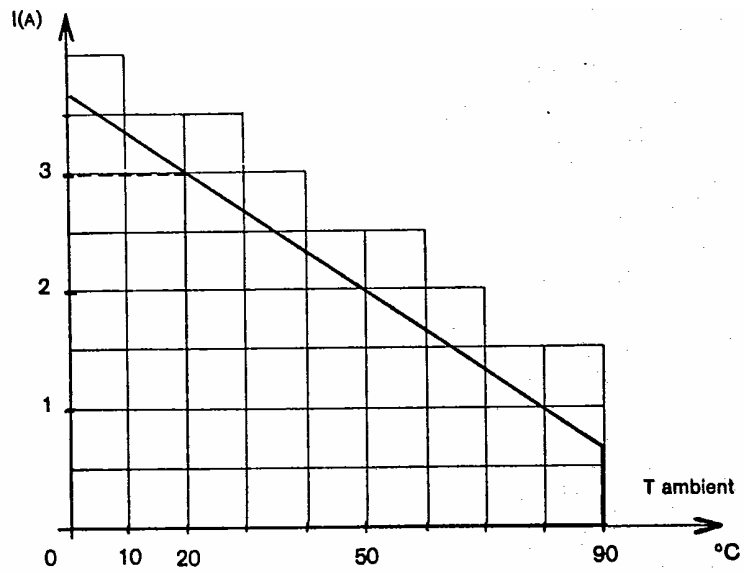


Example of reference:  
 Mains voltage 220 Vac  
 Control voltage 5 Vdc (R = 1500 Ohm)  
 Relay reference : SN541100

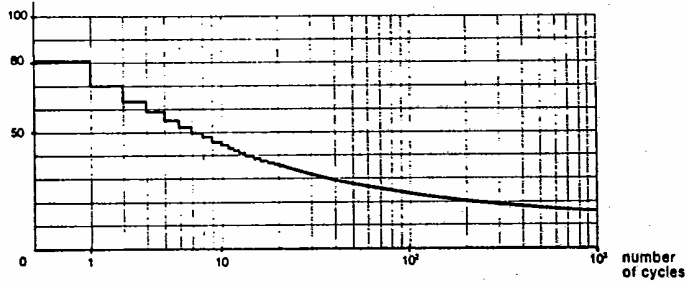


Equivalent diagram





(A) Peak acceptable accidental overload current  
(Initial temperature of internal junction at 110°C)



**DIMENSIONS**

