- Controls AC and DC currents
- 5 mA to 10 A RMS measurement range
- Normal or reverse relay selection by switch on front Threshold and hysteresis separately adjustable Normal or reverse relay selection by switch on front Normal or reverse relay selection by switch on front panel
- Delay on upward crossing of the threshold can be set at 0.1 to 10 s on front panel: T_1 Time-out of high threshold overrun adjustable from 0.1 to 3 seconds via front panel: T_2

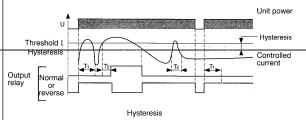
Operating principle

1 - Control of AC/DC current WITHOUT latching latched

When the value of the AC or DC current being controlled reaches threshold (Ie) displayed on the front panel, the output relay changes status, at the end of timing T2, on upward crossing of the threshold (adjustable between 0.1 and 3 seconds via front panel).

The relay immediately returns to its initial status when the current drops to below 5 to 50% of the threshold (hysteresis) or if the power supply

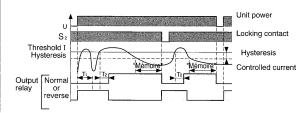
Changing the hysteresis value (via front panel) does not change the value of the preset threshold.



2 - Current control WITH fault storage : (Terminals Y1 - M or 9 - 8 connected)

When the value of the current being controlled reaches the threshold displayed, the output relay changes status, at the end of T2, and remains locked in this position.

To reset the relay contact S2, between Y1 and M (9 and 8), must be opened or the power supply to the unit must be cut.

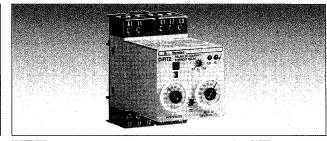


Note:

The power-up time-out T1 (adjustable between 0.1 and 10 seconds via front panel) inhibits current peaks caused by motor start-up.

The delay on high threshold overrun T2 (adjustable between 0.1 and 3 seconds via front panel) provides protection against power-line disturbance and other interference that can cause spurious triggering of the output relay.

To control a DC current, connect a link across terminals Y2 and M (11 - 8) Connections Y1-M (9 and 8) and Y0-M (11 and 8) should be as short as possible (less than 1 metre).



Туре		
DIN rail or panel mounting	DIRT2	
11-pin plug-in		LIRT2
Part numbers (and voltages)		,
24 V ~	84 893 212	84 893 222
24 V ~	84 893 213	84 893 223
48 V ~	84 893 215	84 893 225
110 V ∼	84 893 216	84 893 226
230 V ∼	84 893 217	84 893 227

Technical	specification	
Supply	Galvanic isolation	230V, 110 V, 48 V,
voltage	by transformer	24 V \sim 50/60 Hz
Un	No galvanic isolation (1)	24 V
(1) In this ca	se, the "negative" poles of the auxiliary	

power supply (terminal A2 or 10) and the measurement circuit (terminal M or 0) are connected inside the unit. Caution: This connection should not cause drift of the principal current measured.

Supply tolerance
Maximum power consumption
Frequency of measured signal
Adjustable hysteresis
Display accuracy of preset threshold
Repetition accuracy with constant parameters

Repetition	accuracy with cons	tant parameters
Drifts	with voltage va	riations
	with	range 100 mA
	temperature	range 1 A
	variations	range10 A
Timing on	energization T1	
Delay on u	pward crossing of t	hreshold T2
/: l l!		a time a

Tilling on energization in
Delay on upward crossing of threshold T2
(including relay's own response time)

Availability del	ay					
Output relay (t	o meet AC	1 requirements,				
resistive load)						
Temperature		Use				
limits		Stored				
Weight						
Measurement ranges -	Inputs					
Authorized	DC or AC	(rms)				
overloads	current					
(*) Transient						
current	Input resis	tance				
overload.		Permanent to 20 °C				
Duration:	Overload	Permanent to 60 °C				
120 s		< 1 s peak 20 °C *				

0.85 • 1.15 x Un
3 VA
10 Hz • 500 Hz
5 • 50% of displayed
threshold
±10%
± 0.1 %
± 0.1 % (±10% Un)
± 0.01 % / °C
± 0.03 % / °C
± 0.05 % / °C
0.1 s • 10 s ± 30%
0.1 s • 3s. 0±20%

	0.15	38, U±20)%								
	500 m										
•		IO switc	h, 10 A								
	∼ max.										
	-10 °C	• + 60 °	2								
	-20 °C	• + 70 °	٥								
	200 g										
	E1-M	E2-M	E3-M								
	(5-8)	(6-8)	(7-8)								
	5mA	50mA	0.5A								
	•	•	•								
	100mA	1A	_10A								
	1Ω	0.1Ω	0.01Ω								
	1.5A	3.5 A	14A								
	1A	3 A	12A								
	5 A	17 A	55 A								

Note:

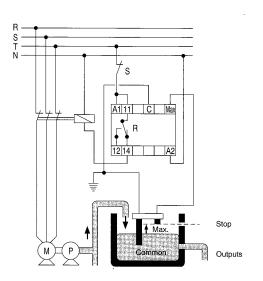
Higher AC currents can be controlled using a current transformer the secondary winding of which is connected to terminals E3 or E2 or E1 (7 or 6 or 5) and M (8)

Other information	To order, specify:	
For compliance with standards etc., common characteristics, and dimensions, see page 5/53 Wiring diagrams and application see page 5/49	Standard products Part number	
Other possible supply voltages : DIRT2/LIRT2 : 48 V $=$ and 400 V \sim Check with our nearest branch.	Standard products Example : Current control relay non stocked 84 893 213	

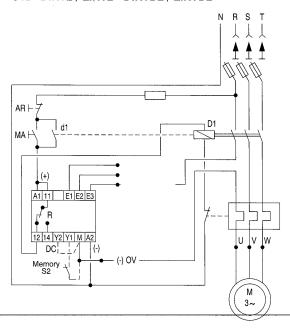


5 Syrelec

DNRT2 / LNRT2



C1I - DIRT2 / LIRT2 - DIRTD2 / LIRTD2



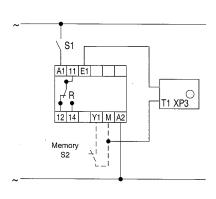
To control DC currents, short-circuit terminals Y2 and M (11 and 8).

C1I - DIRT(D)2	A1	A2	11	12	14	E1	E2	E3	М	Y1	Y2
LIRT(D)2	2	10	1	4	3	5	6	7	8	9	11

DNRT2 A1 A2 11 12 14 C Max

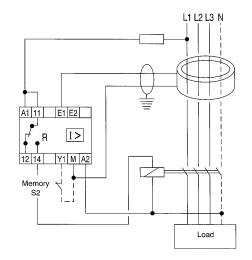
LNRT2 2 10 1 4 3 6 5

DIART2 / LIART2 - DIARTD2 / LIARTD2



DIART(D)2	A1	A2	11	12	14	E1	М	Y1
LIART(D)2	2	10	1	4	3	5	8	9

DIMRT2 / LIMRT2



DIMRT2	A1	A2	11	12	14	E1	E2	М	Y1
LIMRT2	2	10	1	4	3	5	6	8	9