- **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 $\gtrsim T_1$
- Time-out of high threshold overrun adjustable from 0.1 to 3 seconds via front panel: T₂

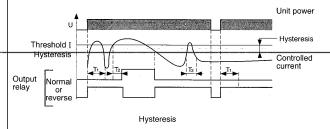
Operating principle

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

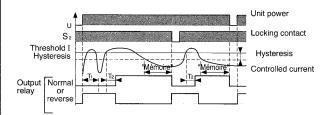
Changing the hysteresis value (via front panel) does not change the value of the preset threshold.



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.

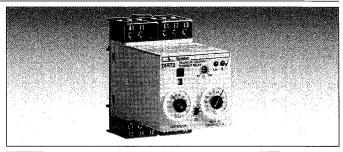


Note:

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).



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	

24 V ~			04 093 212	04 093 222			
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 isolat	ion	230V , 110	V,48 V,			
voltage	by transformer	24 V ~ 50/					
Un	No galvanic iso	plation ⁽¹⁾	24 V				
(1) In this cas	se, the "negative" pol						
power supply	(terminal A2 or 10) a	and the measurement					
circuit (termin	nal M or 0) are connec	cted inside the unit.					
Caution: This	connection should n	ot cause drift of the					
	ent measured.						
Supply tole			0.85 • 1.15	x Un			
	ower consumption		3 VA 10 Hz • 500 Hz				
	of measured signa	<u>l</u>	10 Hz • 500 Hz				
Adjustable	hysteresis		5 • 50% of	f displayed			
			threshold				
	turacy of preset thr		±10%				
	accuracy with cons		± 0.1 %				
Drifts	with voltage va		± 0.1 % (±10% Un)				
	with	range 100 mA	± 0.01 % /				
	temperature	range 1 A	± 0.03 % /				
	variations	range10 A	± 0.05 % /				
	energization T1		0.1 s • 10 s	s ± 30%			
	oward crossing of t						
(including re	elay's own respons	se time)	0.1 s • 3s,	0±20%			
Availability			500 ms				
	y (to meet AC1 red	quirements,	-	switch, 10 A			
resistive loa			\sim max.				
Temperatu			10 °C • + 0				
limits	Sto	red	-20 °C • +	70 °C			
Weight			200 g				

120 s Note:

Measurement

ranges -

current

overload.

Duration:

Authorized

overloads

(*) Transient

Inputs

current

Overload

DC or AC (rms)

Input resistance

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)

Permanent to 20 °C

Permanent to 60 °C

< 1 s peak 20 °C *

E1-M

(5-8)

100mA

5mA

 1Ω

1A

5 A

1.5A

E2-M

(6-8)

50mA

 0.1Ω

3.5 A

3 A

17 A

Е3-М

(7-8)

0.5A

10A

14A

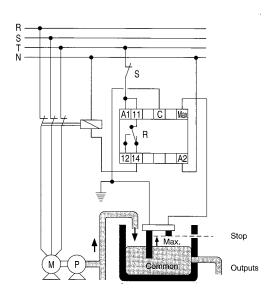
12A

55 A

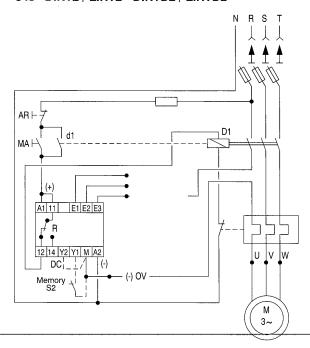
 0.01Ω

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

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

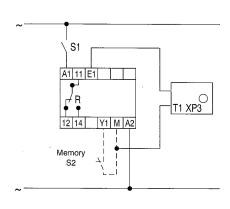
LNRT2 2 10 1 4 3 6 5

A1 A2 11 12 14 C

Max

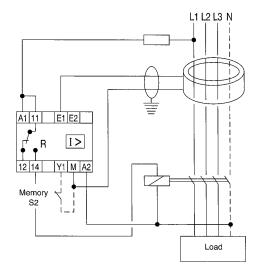
DNRT2

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