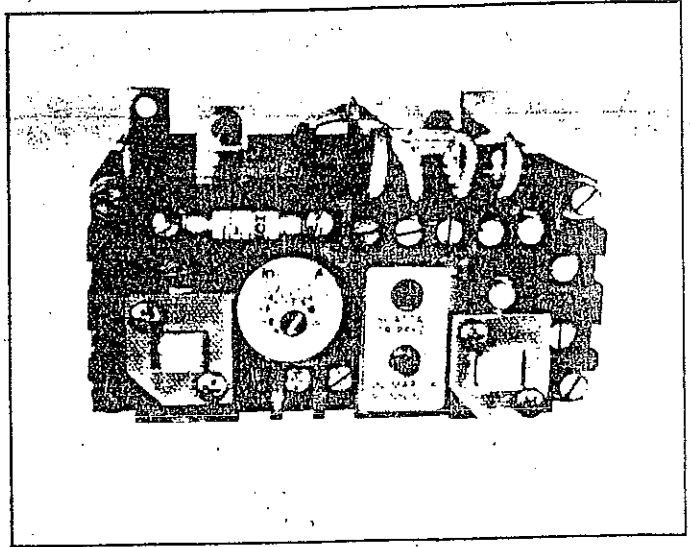


**DESCRIPTION**

This thermal, electronic type, fully static relay was planned for protecting a.c. motors on one-phase and three-phase systems. It can be rated for meeting the intervention features prescribed by the European and United States Standard IEC 292 and MIL-2212; therefore it meets CEI 337 and DA-218-NAV-13-AO95 Specs. The various ratings of the relay are adjustable between 90 and 110% of the rated current.

**STANDARD FEATURES**

- Supply voltage 115V 50 ÷ 60 Hz
- Static output contact of 120V - 5A permanent and 30A peak for 100 ms.
- Protection of the output contact through fuse.
- Electronic system separated by the supply through feeding transformer.
- Input on electronic system through ammeter transformers.
- Intervention time regulation through potentiometer for protecting normal or heavy duty motors
- Manual or automatic reset, direct on the relay or by means of a remote push-button or switch.
- Pilot lamp for live relay and for tripped relay
- Insensitiveness to ambient temperature-variations in the field as prescribed by MIL-2212 Standards.

**OPTIONAL FEATURES**

- DC analogic signal proportional to the current absorbed by the motor equal to 1.5V as to the rated current, maximum voltage of the signal 12V, internal resistance 4,7 K.
- Static contact with NC energized relay through NPN transformer with one pole in common with the cold point of the analogic signal for the remote signaling of: tripped relay. Working capacity 40V - 100 mA on resistive load.
- As alternative: galvanically separated contact, realized through optoelectric insulator with working capacity of 30V - 10mA.

**INSTRUCTIONS FOR ORDERING**

- Indicate the rating of the relay chosen in the list of page 2 referred to the current absorbed by the motor.
- Indicate the data useful for forming the catalogue number as shown at page 2.

# RELAY SELECTION TABLE

FOR  
The

TRANSFORMER TYPE	TYPE OF ELECTRONIC CIRCUIT and RATINGS in AMPS.														
	EL.A - 10% Rtd I + 10%			EL.B - 10% Rtd I + 10%			EL.C - 10% Rtd I + 10%			EL.D - 10% Rtd I + 10%			EL.E - 10% Rtd I + 10%		
TA - 01	0,27	0,31	0,34	0,32	0,36	0,39	0,38	0,43	0,47	0,46	0,52	0,57	0,56	0,62	0,68
TA - 02				0,65	0,73	0,80	0,78	0,87	0,95	0,93	1,04	1,14	1,12	1,25	1,38
TA - 03				1,35	1,5	1,65	1,58	1,76	1,93	1,89	2,1	2,31	2,25	2,5	2,8
TA - 04				2,65	2,95	3,24	3,15	3,5	3,85	3,78	4,2	4,62	4,5	5	5,6
TA - 05				5,3	5,93	6,5	6,3	7	7,7	7,5	8,36	9,2	9	10	11,2
TA - 06				10,6	11,8	12,9	12,6	14	15,4	14,9	16,6	18,2	18	20	22,4
TA - 07				21,6	24	26,4	25,6	28,5	31,3	30,6	34	37,4	36	40	44,8
TA - 08				42,7	47,5	52,2	50,8	56,5	62,1	60,7	67,5	74,2	72	80	88
TA - 09				85,5	95	104	101	113	124	121	135	148	144	160	176
TA - 10				171	190	209	203	226	248	243	270	297	288	320	360

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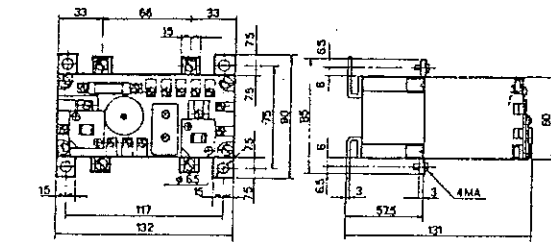
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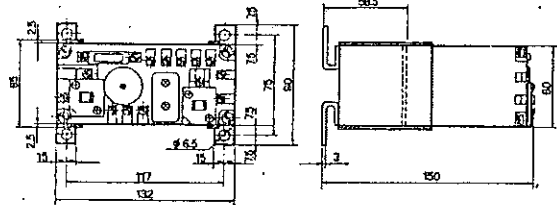
OVER

Overall and fastening dimensions  
Types from TA01 ÷ TA08  
Types from TA09 ÷ TA10

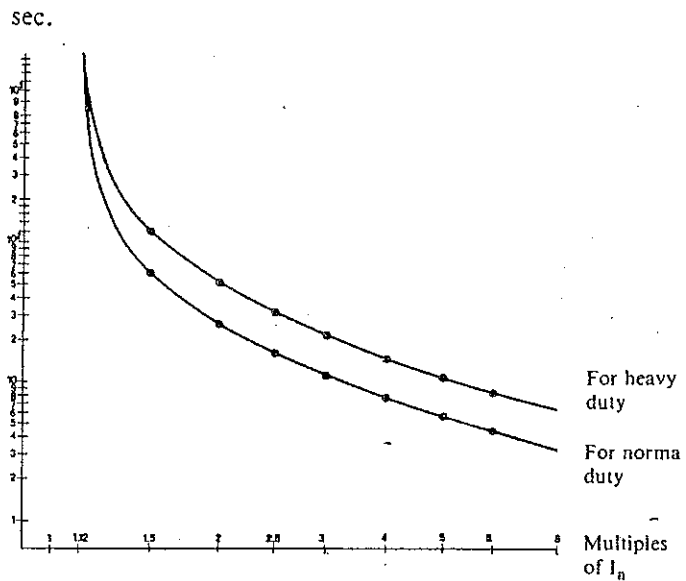
TA01 - TA08



TA09 ÷ TA10



INTERVENTION CURVE ON THE BASIS  
OF THE EUROPEAN STANDARDS



THERMAL, ELECTRONIC RELAY

TYPE: RT - NOL

TA... EL... X X X X

CURRENT REGULATION FIELD:  
AMPS.....

example: 24 RATED AMPS. RELAY:  
RT-NOL-TA07 - EL.B-1111  
CURRENT REGULATION FIELD:  
21,6-24-26,4 A

SIGNALINGS

- 1 - Without tripped NC signal
- 2 - With tripped NC signal through transformer
- 3 - With tripped NC signal through optoelectric sy

OUTPUT

- 1 - Without 1,5 V analogic output
- 2 - With 1,5V analogic output

WORKING VOLTAGE of the NC Contact:

- 1 - 120V - 50 ÷ 60 Hz
- 2 - 440V - 50 ÷ 60 Hz (only upon request)

SUPPLY VOLTAGE:

- 1 - 115V - 50 ÷ 60 Hz
- 2 - 440V - 50 ÷ 60 Hz (only upon request)

TYPE OF ELECTRONIC CIRCUIT shown in t  
relay selection table: EXAMPLE: EL.B

TYPE OF TRANSFORMER shown in the relay  
selection table: EXAMPLE TA 07