

TOSHIBA

Toshiba Current Relay RC803A-HP1 Instruction Manual

Toshiba current relay instruction manual

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Summary of Contents for Toshiba Current Relay RC803A-HP1

[Page 1](#) TOSHIBA I NSTRUCTI O N M A N U A L C U R R E N T R E L A Y RC803A-HP1 TOSHIEA C
O R P O R A T I O N...

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TOSHIBA G e n e r a l D e s c r i p t i o n ----- C h e c k B e f o r e U s i n g -
----- 2 . 1 2 . 2 D e s c r i p t i o n o f A p p l i c a t i o n s M o u n t i n g A d j u s t
a e n t s ----- 6 .

[Page 3: GENERAL Description](#)

=rosHI=A Please thoroughly read this instruction manual RC803A Current SensinD Relay. 1. General DescriDtion This current relay is designed to detect current in AC circuits with a wide range of aDDiications, e.t., detection of abnoraai current of VariOUS electrical eauiement c i r c u i t s (e.g., heater circuits), detection of starting current to autoaatiaaiy advance the secondary resistance on induction wound rotor motor controllers.

[Page 4](#) T O S H I B A Specifications _____ - - _____ -----
--- ITEH Rated Current Range of current sensing Inout c i r c u i t voltage Type of Current delay
ReSDOnSe time-adjustable range Detection delay t i l e - a d j u s t a b l e range Operating volt.

[Page 5](#) TOSHIEA ITEH A m b i e n t temp. range Temp. e r r o r Dielectric with - s t a n
d v o l t a g e I m g u l s e w i t h - s t a n d v o l t a g e I n s u l a t i o n...

[Page 6: Specifications](#)

TOSHIBA WEHA AC Rating Designation B300 ITEH Hysteresis Power consumption Height 3 .
DescriDtion o f Oeration When the detected current exceeds the detection circuit o p e r a t i n
g l e v e l , t h e d e t e c t i o n d e l a y t i m e r i s a c t u a t e d . I f o v e r - c u r r e n t i s
continuously detected for more then the detection delay time set value, the overcurrent
response delay timer is actuated.

[Page 7: Overcurrent Detection On Hotors](#)

TOSHIBA Detection delay .pL1 mrellt level (0.3-0.b5A) Undercurrent detect img APDI ication 4.1
Overcurrent Detection on Hotors An aDDiication example Is shown in Fig. 2. In this clrcult. an
excessive load is detected by detecting the overcurrent of a motor and the lain circuit is oened
to Protect FiD.

[Page 8](#) TOSHIBA the uotor from being damaged. !iA. and in case of a high voltage circuit, use
an external CT and connect the secondary side of CT to the relay as shown in the following AC3-
Phase Power SuDDly TiD. 2 ADDiication ExaaDle using An External CT...

[Page 9](#) T O S H I B A detection delay timer should be set lonfler than the startinv time (about
120%) so that this relay is not actuated by inrush current. after the tiee Deriod of the detection
delay timer has elapsed. the relay is actuated when the set tiue of the response delay tiler i s o
v e r .

[Page 10](#) TOSHIBA ACJ-Phase Power SUDDIY 4 . 3 Limiting S t a r t i n o c u r r e n t o f R o t o r s
Many eotors of uedia and large capacity use a aethod to s t a r t b y l i m i t i n g s t a r t i n g c
u r r e n t . 8 y d e t e c t i n o t h e l a i n...

[Page 11: Transformers](#)

ToSHIEA 4 . 4 Transformers To use this current relay for detecting overcurrent on transformers.
it is necessary to set the detection delay tiler with the inrush current of transforeer 4 . 5 H e a t
e r s , L a u D s a n d o t h e r C i r c u i t s This relay can be used to detect the disconnection of
circuits by sensing the existence of current flow.

[Page 12](#) TOSHISA 6F9E0090 3-\$7 Hole Hountino holes Fig. 4 Dimensions - II-...

[Page 13: Current Setting](#)

T O S H I B A 6 . AdjustDents 6.1 Current setting (1) When detected current is in a range of 0.5 -
5A: After confirming that the current value under noraal load condition is in a range of 0.5 - SA,
set the current adjusting knob to the desired detecting value.

[Page 14](#) TOSHIEA 6.3 Setting the ResDonse delay time Adjust the set tile according to the
ourgose of detection (l.e. overcurrent or undercurrent). delay varies ger aDDiication. any delay
tile. (ride through) by ignoring aoentary load gliches. 7 . Ooerational l e s t (1) Check both the
control and detection circuits to confirm there is no eis-wiring.

[Page 15: SETTING THE RESPONSE DELAY Tiae](#)

TOSHIBA (4) When the Dower source is aDDlied. OutDut contact's states are reversed. The
relationshiD the input signal end the outDut contacts are shown in Table 2. Check this

relationship during the test. (5) If no Droblea is found when the Dower source is aDDlied.

[Page 16](#) T O S H I B A (b) When undercurrent or disconnection is detected At the sale time the lain circuit switch is turned OH, the starting current and rated current flows, and the relay is picked U the undercurrent State is detected and the relay drops out. (Refer to Fig.

[Page 17](#) Toshiba. Power Source - Detected current Overcurrent...

[Page 18](#) T O S H I B A 6F9E0090 8. Cover Reroval To adjust the current and time settings the cover must be raaoved. Reaove the cover by amlYing a force in the direction of the arrow as shown below. To replace the cover, place the projection of the cover in the slip out oreventive hole and then insert the bosses of the cover into the 2 holes at the uoer left and right.

[Page 19](#) T O S H I B A C O R P O R A T I O N . . .