

631.37:621.313

. . , . . ,

. . , . . .

: . . , . . ,

-

,

.

-

-

,

-

.

-

,

.

.

,

-

.

-

-

,

,

.

,

,

;

,

.

[1] -

-n

( 1) [2].

( 10 ).

VT2

(R 2>>R VT2).

I 2

I 2

VT2

[2]:

$$I_2 = \beta_2 I_2, \tag{1}$$

$$I_2 = \frac{1}{R_2}, \tag{2}$$

$\beta_2 -$

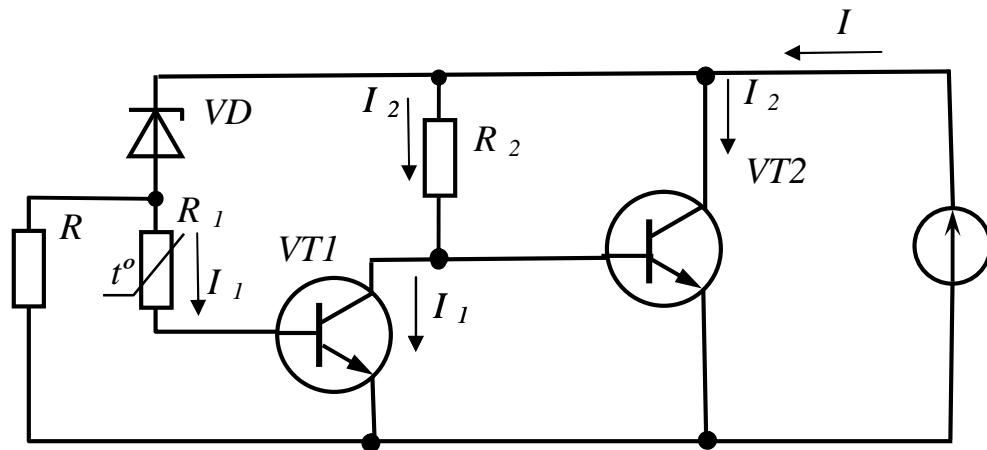
VT2.

(2)

(1)

:

$$I_2 = \beta_2 \frac{I_1}{R_2}, \quad (3)$$



1 -

-

(3)

U

VD.

$> U$  ,

$I_1$

$I_1$

VT1.

VT1

:

$$I_2 = \frac{-U_{CT}}{R_1}, \quad (4)$$

VT1

( $R_1 \gg R$ )

VT1)

$$I_1 = \beta_1 \frac{-U_{CT}}{R_1}, \quad (5)$$

VT2

:

$$I_2 = \frac{\beta_1}{R_2} \frac{-U_{CT}}{R_1}, \quad (6)$$

$$I_2 = \beta_2 \frac{\beta_1 \beta_2}{R_2} \frac{-U_{CT}}{R_1}. \quad (7)$$

(7):

$$I_2 = \frac{\beta_2 R_1 - \beta_1 \beta_2 R_2 (-U_{CT})}{R_1 R_2}. \quad (8)$$

$$I_2 = 0, \quad (8)$$

:

$$\beta_2 R_1 - \beta_1 \beta_2 R_2 (-U_{CT}) = 0, \quad (9)$$

$$E_0 = \frac{\beta_1 R_2 U_{CT}}{\beta_1 R_2 - R_1}, \quad (10)$$

$$U_0 = 2U$$

:

$$\frac{R_1}{R_2} = \frac{\beta_1}{2}. \quad (11)$$

$$R_1 = R_2 U,$$

[3].

1. 42932, <sup>7</sup> G01 7/16  
 . 2000020610 / . . . ( );  
 04.02.2000; .15.11.2001, . 10.
2. . . / . .  
 .-4- . .- .: , 1977.- 671 .

3. 22526 , (2006) G01 7/16.  
. u 2006 12431 / . . , . . , . . ( ) ;  
.27.11.2006; .25.04.2007, . 5.

## **DETERMINATION PARAMETER SENSOR OF THE CHECKING THE TEMPERATURE WINDINGS OF INDUCTION MOTOR**

I. Popova, A. Churakov

*Summary* - a work is dedicated to motivation parameter sensor of the checking the temperature of the induction motor on the base of the analogue lambda-diode on bipolar transistor, which can be used in device control and protection. The theoretical toolbox is offered for determinations parameter sensor for change the width volt-amper of the characteristic of the analogue lambda-diode and determination of the value of the voltage to stabilizations for regulation of the current, which flows through analogue lambda-diode in necessary limit.

,

«

», . 1.213,

,

.

, 18,

,

72315

.(0619) 42-32-63

“ . . . ”

, .

, -

:

. ,

20...25 % , .

,

, , , ,

, ,

..

,

. . . .



- “  
” 28 2009

∴ , . . . . . ∴ ∴ ∴  
“

”

∴

1.

∴ ∴ ∴ “

”

.

. . .



« »

... , \_\_\_\_\_ . . .  
«\_\_\_\_\_» \_\_\_\_\_ 2010 .

( - ) \_\_\_\_\_

\_\_\_\_\_

( ) \_\_\_\_\_

\_\_\_\_\_ . . . “

\_\_\_\_\_ ”

( . . . , , )

\_\_\_\_\_ , \_\_\_\_\_ ,

\_\_\_\_\_ ,

**419 21.06.92 . . 16**

( \_\_\_\_\_ ,  
419 21.06.92 . . 16)

\_\_\_\_\_ ( )

\_\_\_\_\_ ( \_\_\_\_\_ , \_\_\_\_\_ )

\_\_\_\_\_

( - ) \_\_\_\_\_ ( )

\_\_\_\_\_ , . . . , \_\_\_\_\_ ,

\_\_\_\_\_ ( . . . , )