

(19)  
(12)

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2 102 301

1가 696 12-603

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1314-182

:

(54) DC-

DC- DC- .

DC- ,

DC- , 3

DC- , 가 3 ,

가 , 환 환 DC- 가 ,

가 가 DC-

4

, DC- , , ,

- [ 1] DC- .
  - [ 2] DC- (V<sub>load</sub>)  
(I<sub>In</sub>) (I<sub>coil</sub>).
  - [ 3] DC- (20[ ] 10[ ] 20[ ] )  
(V<sub>load</sub>) (I<sub>In</sub>) (I<sub>coil</sub>).
  - [ 4] DC- ( 1 )  
(HTSC Coil, High Temperature Superconducting Coil) ,  
DC- .
  - [ 5] DC- (I<sub>1</sub>, I<sub>2</sub>, I<sub>3</sub>)  
(I<sub>In</sub>), (I<sub>b</sub>), 1 2 , 3
  - [ 6] , DC- .
- < >
- T1, T2 :
- D1, D2 :
- V<sub>s</sub> :
- I<sub>In</sub> : (= )
- I<sub>Coil</sub> :
- L<sub>Coil</sub> :
- V<sub>load</sub> :
- V1 : 1
- V2 : 2
- V3 : 3
- V<sub>sc</sub> :
- I1 : 1
- I2 : 2

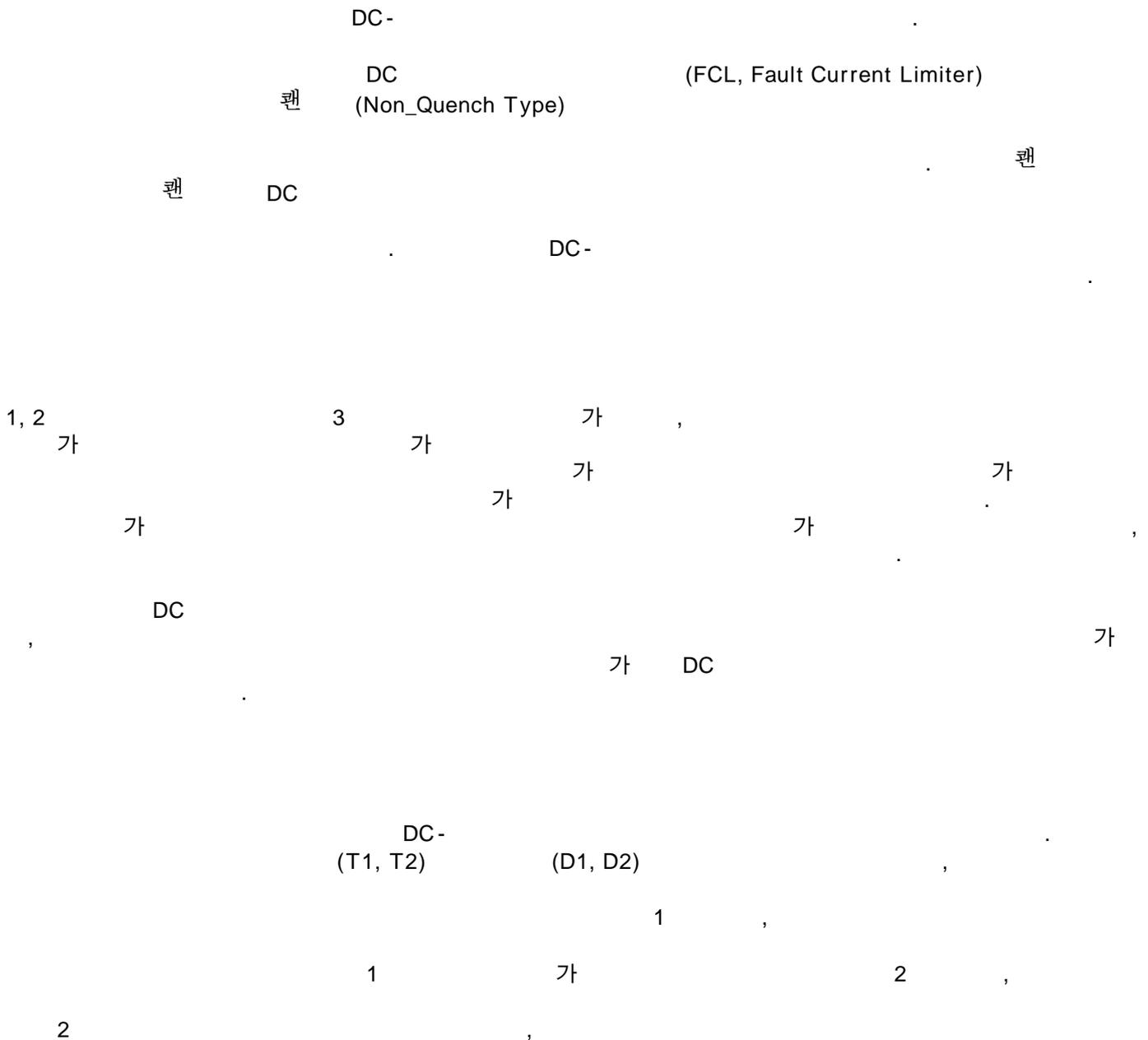
I<sub>3</sub> : 3

I<sub>b</sub> : I<sub>1</sub> + I<sub>2</sub>

C<sub>r</sub> :

R<sub>3</sub> : 가

G<sub>1</sub> G<sub>6</sub> : GTO



1 2 3 ,  
 3 ,  
 3 , 3 3 ,  
 , 2 가 ,  
 3 가 ,  
 가 ,  
 , 3 , 3 가  
 .

[ 1] DC- 가 DC DC-  
 (T1, T2) (D1, D2) T1 D1 T2  
 D2 가 가

[ 2] DC- 0.666[s] 가 (V<sub>load</sub>) 가 0.533[s] (I<sub>in</sub>) 가 (I<sub>c</sub>  
 oil) 8 가 [ 1]

[ 3] DC- (20[ ] 10[ ] 20[ ] )  
 가 (V<sub>load</sub>), (I<sub>in</sub>) 가 (I<sub>coil</sub>) 가 가 가  
 가 가 [ 2]

[ 4] DC- ( 1 )  
 (HTSC Coil, High Temperature Superconducting Coil)  
 DC- DC- 환 가

[ 5] DC- (I<sub>in</sub>), (I<sub>b</sub>), 1 2, 3 가 (I<sub>1</sub>, I<sub>2</sub>, I<sub>3</sub>)  
 DC- 3 가 3

[ 6] DC- DC- 가 3

, 환 환 DC- 가 가

가 DC- 3 ,

(57)

1.

(T1, T2) (D1, D2) ;

1 ;

1 가 2 ;

2 ;

1 2 3 ;

3 ;

3 , 3 3 ;

3 가 ;

가 ,

DC- .

2.

1 , 3 가 가 , 3 , DC- 가

3.

1 , DC- ,

DC-

환 가 , DC- DC-

DC-

4.

1 , 1 , 2 , 3 ,

DC-

5.

1 , 가 가 ,

DC-

6.

6 (Rod) GTO(Gate Turn off) 3

DC-

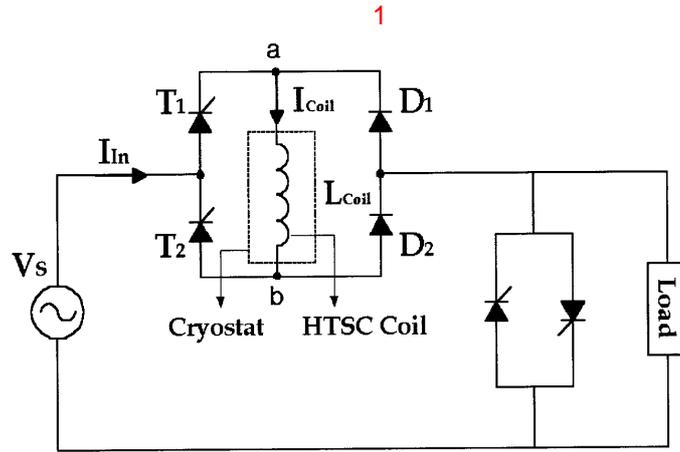
7.

GTO(Gate Turn off)

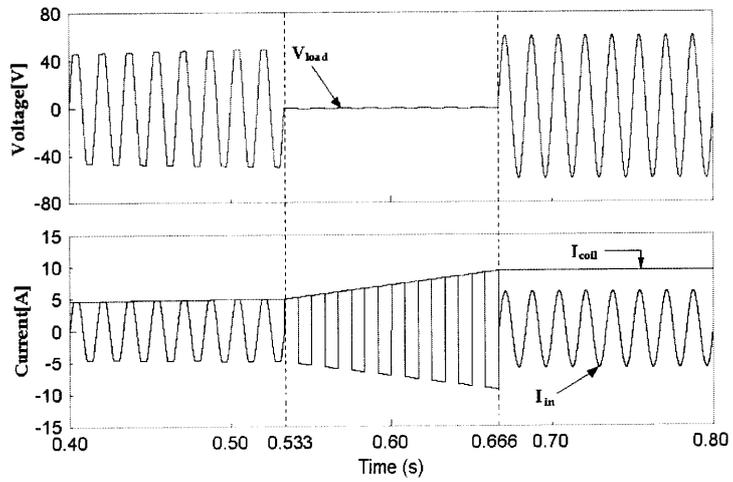
GTO(Gate Turn off)

DC-

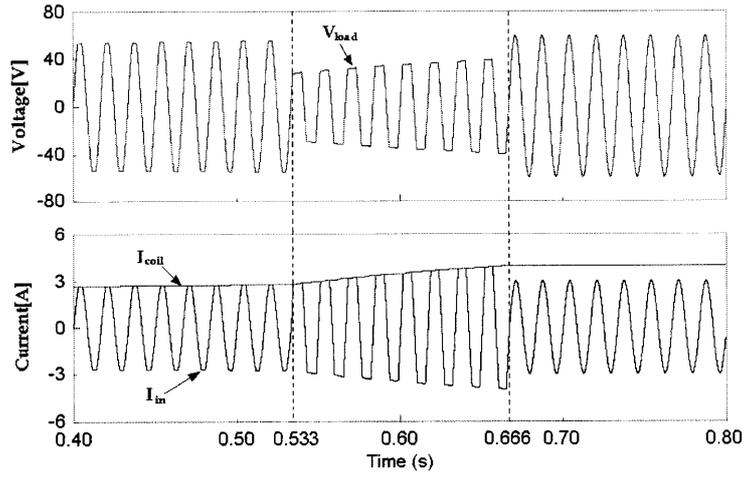
DC-



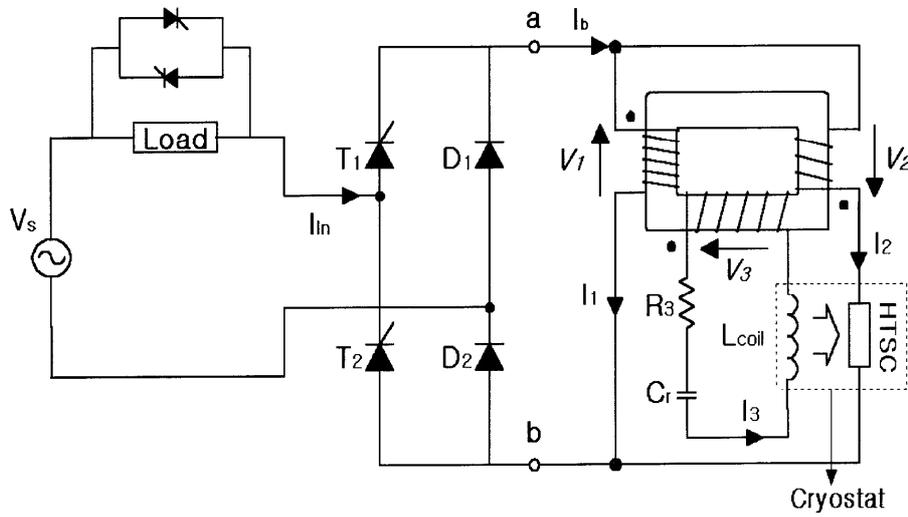
2



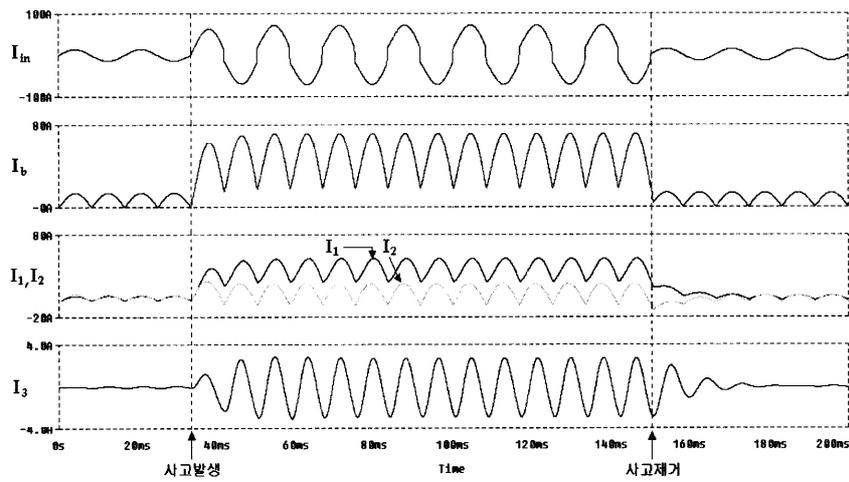
3



4



5



6

