

SOFT START / STOP

FDS-series



T.H. ELEMA ENG. CO., LTD.

TEL: +82-31-498-9270-4

FAX: +82-31-498-9275

1.

2.

3.

4.

5.

6.

7. LED

SOFT START / STOP

8.

9. TROUBLE SHOOT TABLE

10.

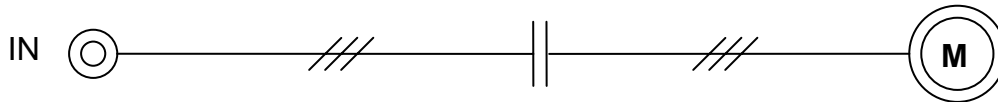
11.

1.

SOFT START / STOP (FDS-series)

가

2.



2-1.

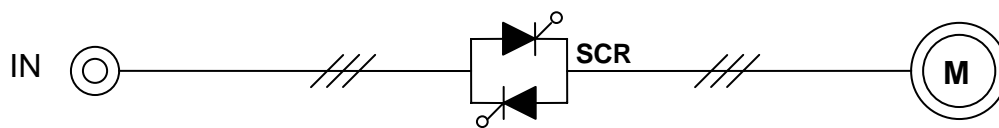
2-2.

2-3. di/dt

EMI

2-4.

3.



3-1.

3-2. SOFT STARTING

3-3. EMI

3-4. /

3-5.

3-5-1. (2)

3-5-2. (450%)

3-5-3. (200~400%)

3-5-4. (85°C)

3-5-5. (CT)

4.

4.1 ON/OFF

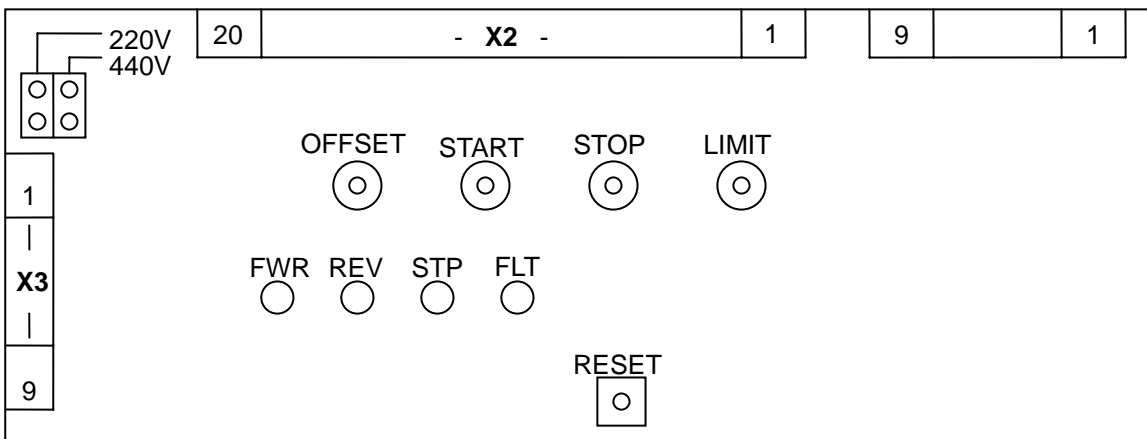
4.2 ON/OFF

4.3 ON/OFF

4.4 ON/OFF

5.

5-1. LAY OUT



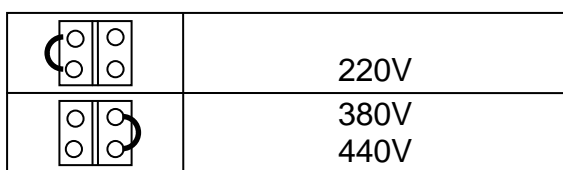
5-2. CONNECTION

	1	2	3	4	5	6	7	8	9
X1	AC3	AC4	Vbs	Vcs	IGND	OH	GND	lb	lc

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
X2	G2'	K2'	G5'	K5'	G6'	K6'	G3'	K3'	G2	K2	G5	K5	G6	K6	G3	K3	G4	K4	G1	K1

	1	2	3	4	5	6	7	8
X3	IGND	FWR	REW	RESET	FT1	FT2	BP1	BP2

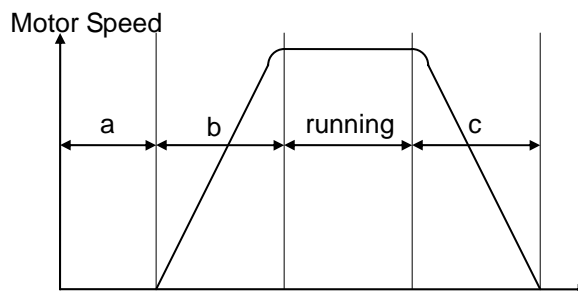
5-3. INPUT LINE VOLTAGE SETTING



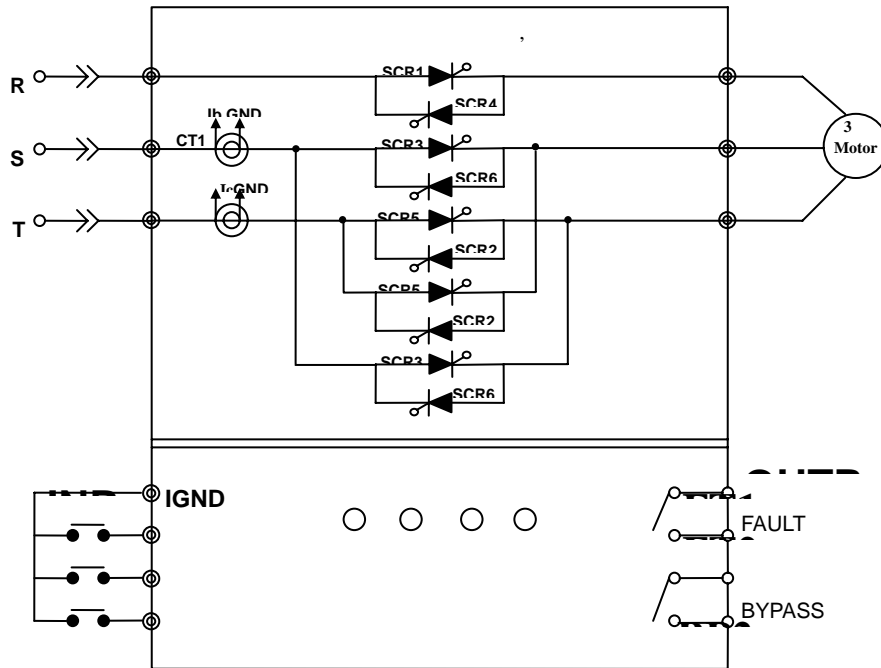
5-4. PARAMETER SETTING VOLUME

- 5-4-1. Offset : starting torque (0~50%)
- 5-4-2. Start : soft start time (0.4~12sec)
- 5-4-3. Stop : soft stop time (0.4~12sec)
- 5-4-4. Limit : current limit (200~400%)

* PARAMETER RESET
 , RESET
 PARAMETER



6.



* BYPASS BP1, BP2 . (OPTION)

7. LED SOFT START / STOP

● : LED ON ○ : LED OFF

LED	FWR	REV	STP	FLT
CT				

8.

8-1.

8-2. (R,S,T) 가

R-S-T LED FLT → STP → REV → FWR

R-T-S LED FWR → REV → STP → FLT

8-3.

가

60Hz LED FLT → STP → REV → FWR

50Hz LED FWR → REV → STP → FLT

8-4.

"IGND – FWR"

8-5.

"IGND – REW"

8-6.

"IGND – RST"

RESET

* FWR, REW ON STOP 가
FWR, REW

9. TROUBLE SHOOT TABLE

9-1.

: (U,V,W)

9-2.

: (U,V,W)

9-3.

: SOFT START / STOP UNIT

9-4.

:

가

가

가

RESET

9-5. CT

:

(S,T)

(CT1,CT2)

CT

9-5-1. CT1 IB X1-8 0() 가?

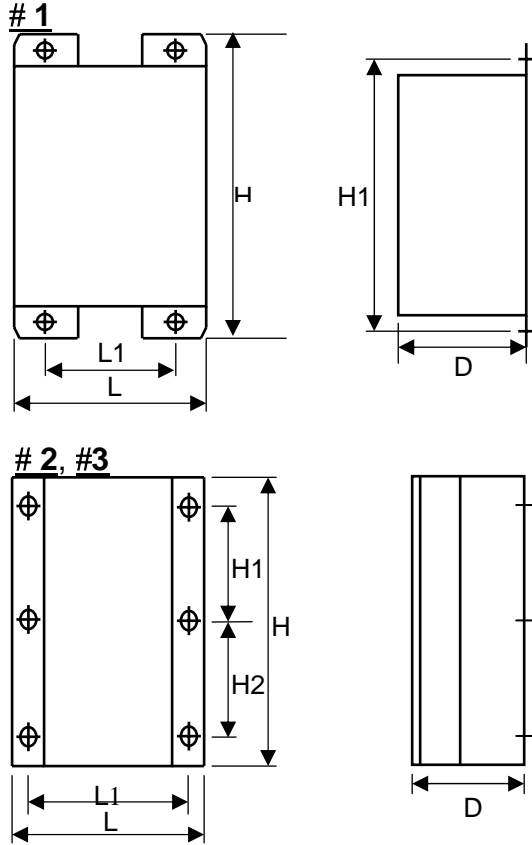
9-5-2. CT2 IC X1-9 0() 가?

* FT1,FT2 OPEN , 9-1 9-5 FAULT
FT1,FT2 CLOSE

10.

FDS-	37	45	100	200	250	300	500	700	1000	1							
	L: 220V M:380V H:440V																
(kW)	2.2	3.7	5.5	7.5	11	15	22	30	37	11	15	75	110	132	160	200	3
	3 220V/380V/440V/480V ±10%																
	50/60 HZ ±10%																
Start / Stop	0.4 – 12(sec)																
	200 – 400(%)																
	2[V rms]																
	-10 +50 (°C)																

11.



FDS-	TYP E						
		L	H	D	L1	H1	H2
37	#1	200	325	185	160	305	—
45							
100	#2	294	500	265	276	220	220
200							
250							
300							
400							
600	#3	390	500	330	370	220	220.5
700							
1000							
1200							

*