

SEROUN STR-UNIT

STR-UNIT

HEATER CONTROL



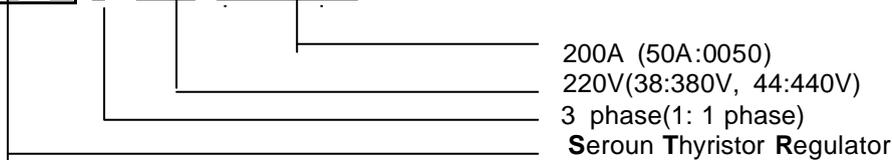
- 가. : 가?
가?
가?
- 가. PANEL 가 (FAN)
HIGH SPEED FUSE SCR 가
30 % S.L LED)
UNIT 1

3. STR-UNIT

- 가. CONTACT가
가
PROGRAM 가 가
가
COMPACT SCR , RIPPLE
가 LOCAL/REMOTE
OPERATION PARTS
UNIT SENSOR ALARM ()
STR-UNIT) @ PANEL FAN

MODEL

S I R - 3 2 2 - 0 2 0 0



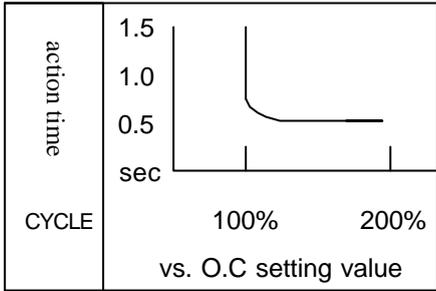
Type	•3 (3ø) STR • (1ø)STR.		:4~20mA@ :1~5V
	Heater control		DC B10K 가 . 0~100%
	3 Unit Unit : 220/380/440V. @		0~100 % ().
	50 /60 Hz. @ STR-UNIT		1) 2) 3) 4)
	25, 35, 40, 60, 70, 90, 110, 150, 200, 250 300, 350, 400, 500, 600, 800 1000A		Soft start
	-20~85 [], : 90% ().		Fan cooling:• 90A • 3 60A
	• Heater • 1 :		earth • 220V: 2000V, •380V/440V: 2500V
	(Local/Remote).		10 M

STR-UNIT

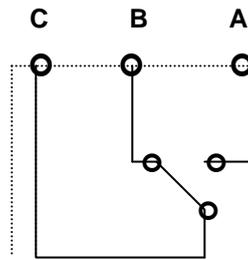
1.

STR-UNIT (E.O.C.R)
 LOADAMP VOLUME SETTING UNIT SETTING 가
 가 THYRISTOR GATE THYRISTOR 가 OFF
 UNIT PANEL O.C LED가 RELAY 가
 ALARM
 @ POWER SWITCH OFF RESET BUTTON

(cycle display)



(relay contacts)



()

@ : AC 250V 2A

CA	open	close
CB	close	open

@ UNIT LOADAMP VOLUME
 THYRISTOR

2.

UNIT MAXAMP VOLUME SETTING 가
 가 가

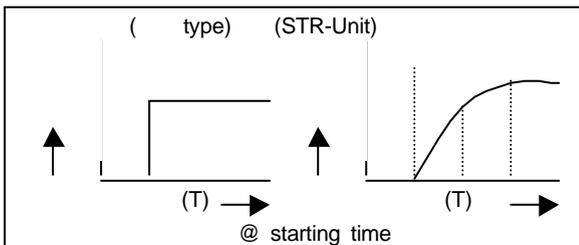
LOCAL/REMOTE

3.

3 UNIT S.P LED가
 UNIT S.L LED 가

4. SOFT START

(@ heater)



1

ON/OFF
 FLICKER
 THYRISTOR
 SOFT START TIME 2.5 SEC

5.

OVER- TEMP. (3 STR-UNIT)
 UNIT SENSOR 가 ALARM

STR-UNIT

1. 가. 2 ()
 . UNIT
 . UNIT case
 . 1 UNIT 가

가. UNIT AUTO/HAND SWITCH HAND . UNIT LOCAL/REMOTE SWITCH LOCAL . UNIT PW(POWER) SWITCH OFF . UNIT RUN OPEN @ . HEATER PANEL POWER SWITCH ON/OFF UNIT RUN	. MAXAMP VOLUME . LOADAMP VOLUME 90% @ O.C LED . HEATER N.F.B ON . HEATER PANEL B10 K VOLUME UNIT VR
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Note 1 : _____ (INTERLOCK) SETTING
 HEATER 가 LOADAMP VOLUME O.C LED 가 10%
 SETTING @ 가 mode
Note 2 : REMOTE UNIT MAXAMPVOLUME

2. : 2 " " 가 OPERATION MODE 가

3.1 HAND-LOCAL OPERATION

가. UNIT LOCAL/REMOTE SWITCH LOCAL ,
 HAND/AUTO SWITCH HAND
 @ , 50A 3 4 (Local Mode), 15 16 (Hand Mode)
 . UNIT POWER SWITCH ON HEATER
 PANEL POWER SWITCH ON
 . UNIT MAXAMP VOLUME 가
 HEATER
 @MAXAMP VOLUME HEATER
 1
 SETTING

3.2 HAND-REMOTE OPERATION

가. UNIT LOCAL/REMOTE SWITCH REMOTE ,
 HAND/AUTO SWITCH HAND
 @ , 50A 4 5 (Remote Mode),
 15 16 (Hand Mode)
 . 3-1. .
 .. B10 K VOLUME HEATER
 (B10 K VOLUME UNIT MAXAMP
 VOLUME)
 @ HEATER PANEL B10 K VOLUME
 3.1 " HAND-LOCAL MODE
 SETTING

3.3 AUTO-LOCAL OPERATION

가. UNIT LOCAL/REMOTE SWITCH LOCAL ,
 HAND/AUTO SWITCH AUTO
 @ , 50A 3 4 (Local Mode), 14 15 (Auto Mode)
 . 3-1. .
 . HEATER PANEL TIC 4~20mA SIGNAL
 CABLE UNIT (+,-)
 . UNIT MAXAMP VOLUME HEATER
 SETTING
 . HEATER PANEL TIC 4~20A controller

3.4 AUTO-REMOTE OPERATION

가. UNIT LOCAL/REMOTE SWITCH REMOTE ,
 HAND/AUTO SWITCH AUTO
 @ , 50A 4 5 (Remote Mode),
 14 15 (Auto Mode)
 . 3-1. .
 . HEATER PANEL TIC 4~20mA SIGNAL
 CABLE UNIT (+,-)
 . HEATER PANEL B10 K VOLUME
 @ HEATER PANEL B10 K VOLUME
 3.1 " HAND-LOCAL" MODE
 SETTING
 . TIC 4~20A controller

2. OPERATION PARTS

가. OPERATION PARTS

- 1) **POWER(PW) LED** : UNIT PW SWITCH가 ON
- 2) **OVER CURRENT (O.C) LED** :
2 (HEATER) , EARTH
@2 (HEATER) 가 LED가
- 3) **SINGLE PHASE (S.P) LED** :
2 (HEATER) FUSE 가 1
- 4) **SINGLE LOAD (S.L) LED** :
2 (HEATER) 가 2 (HEATER)
- 5) **OVER TEMPERATURE (O.T) LED** :
UNIT @ FAN
- 6) **RESET BUTTON** : LED가 BUTTON
- 7) **LOCAL/REMOTE SWITCH** :
가) LOCAL :
UNIT MAX.AMP VOLUME SWITCH.
) REMOTE
HEATER PANEL 가 (B10K Ω) HEATER
PANEL TIC4~20mA SWITCH.
- 8) **AUTO/HAND SWITCH** :
가) AUTO : TIC (4~20mA, 1~5V)
) HAND : UNIT MAX.AMP VOLUME
- 9) **PW ON/OFF SWITCH** : UNIT SWITCH.
- 10) **MAX.AMP VOLUME** : 2 TOGGLE SWITCH.

() MAX.AMP



100 %



75 %



50 %



25 %



0 %

- 11) **LOADAMP VOLUME** : ALARM SETTING TOGGLE SWITCH

- 1) **VR** : HEATER PANEL UNIT MAXAMP
PANEL 가 (B10K Ω)
- 2) **RUN** : HEATER PANEL POWER SWITCH UNIT ON/OFF
SIGNAL CABLE UNIT POWER SWITCH
OFF ..
- 3) **4~20mA** : AUTO TIC 4~20mA
- 4) **ALARM** : ALARM



1. SINGLE PHASE (S.P) LED

가. HIGH SPEED FUSE 가

- 1) (HEATER) :
가) 100%가 (HEATER)
) (U.V.W)
)
- 2) (TRANSFORMER) : 1 NOISE

. CONTROL FUSE 가 :

- 1) UNIT CONTROL TRANSFORMER가
- 2) UNIT FAN

2. OVER CURRENT (O.C) LED

가. LOAD.AMP VOLUME O.C

.LOADAMP VOLUME

@ O.C LED (INTERLOCK).

@ UNIT가 RUN SOFT START

3. SINGLE LOAD (S.L) LED

가. 가 가 30%

. UNIT C.T (CURRENT TRANSFORMER)가

@ S.P S.L LED

4.

가. (HAND) 100 % AUTO(TIC 4~20mA)

UNIT 4~20mA (+, -) TIC

.TIC SETTING 가 5

. @ 가

.UNIT FAN 가 SCR 가

.HEATER SCR 가 P.C.B

5. UNIT

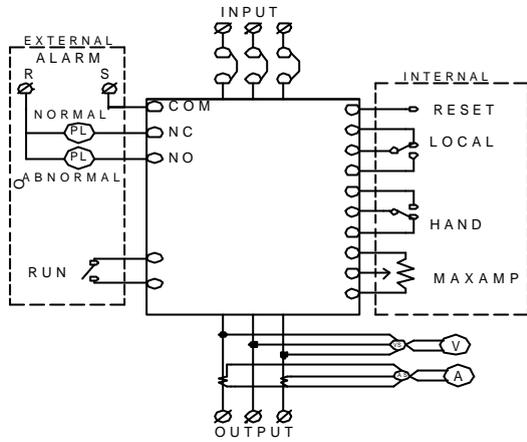
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COOLING FAN

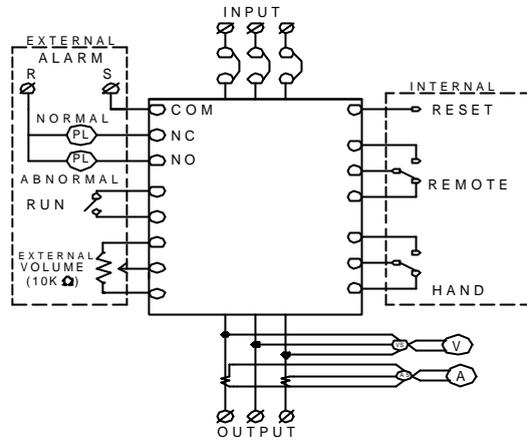
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1. (ON/OFF TYPE)

(volume)

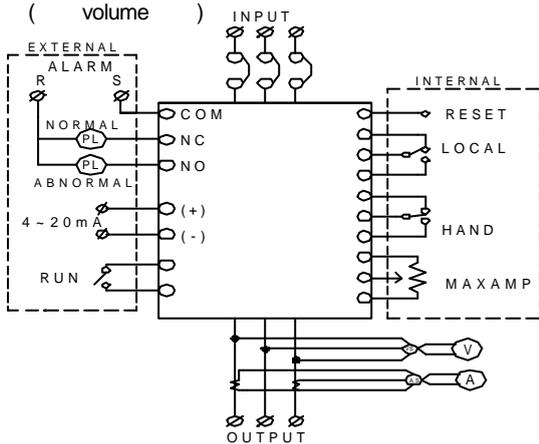


(volume)

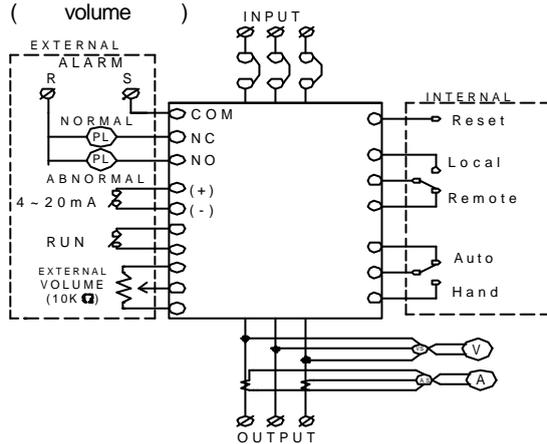


2. (4~20mA TYPE)

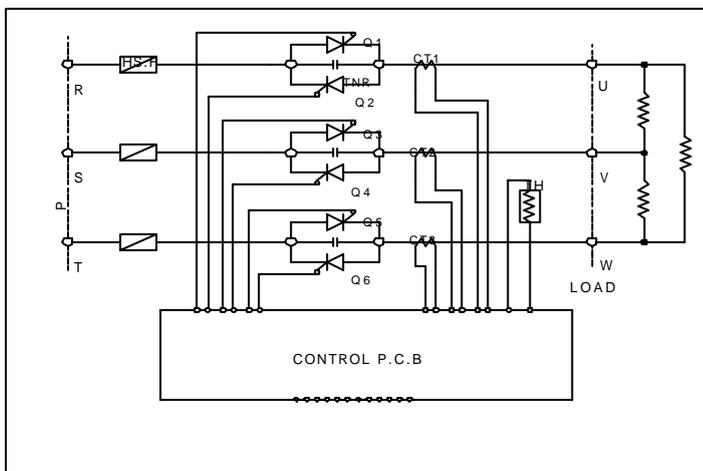
(volume)



(volume)



3 UNIT

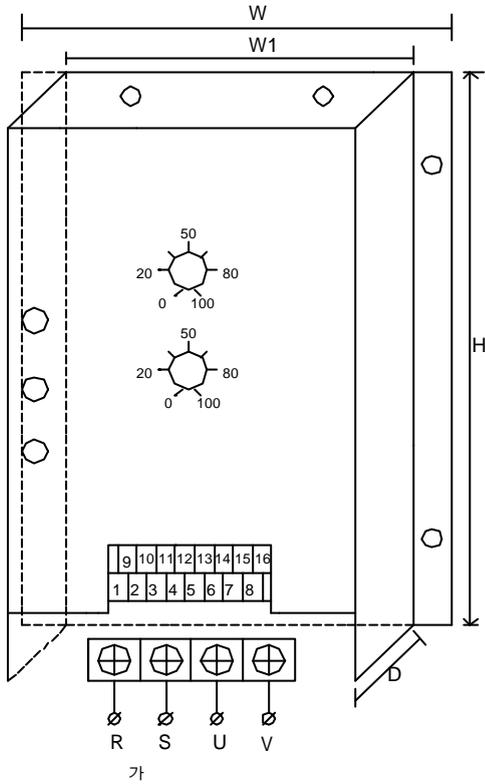


DIODE Q2, Q4, Q6

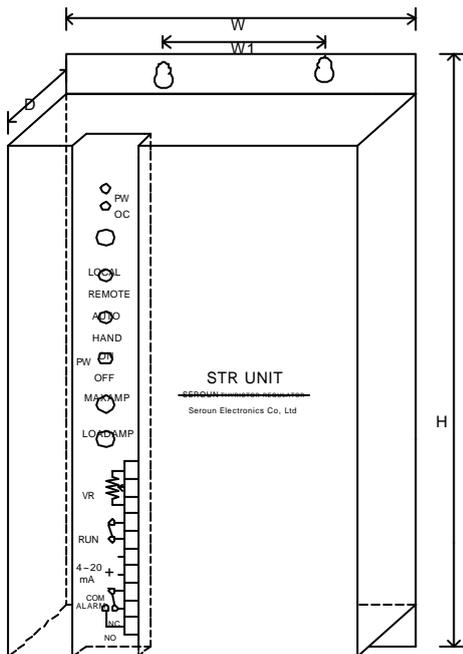
(0) 가

(1 Ø) STR - UNIT

1. 50A

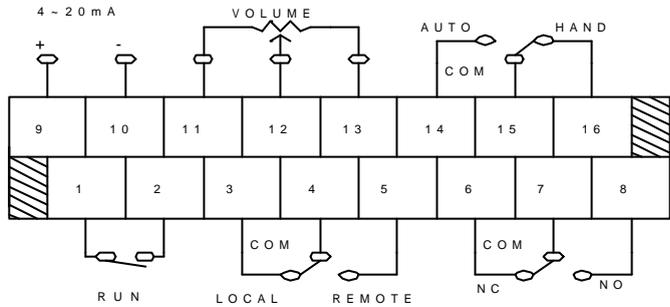


2. 60A



OPERATION PARTS

- 가. R,S : MAIN POWER
- . U,V :
- . MAXAMP : SWITCH
- . LOADAMP : SWITCH
- . SFT : HEATER BUTTON
- ()
- . PWR : POWER LED
- . OC: LED
- RED : LED
- GREEN : -4~20mA
- YELLOW : HEATER



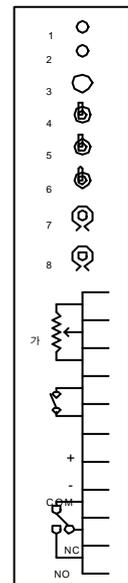
OPERATION

#. OPERATION

- 1 : POWER LED(PW)
- 2 : ALARM
가. LED : O.C
. LED : 4~20mA
. LED : HEATER
- 3 : RESET BUTTON
- 4 : LOCAL / REMOTE SELECTION SWITCH
- 5 : AUTO / HAND SELECTION SWITCH
- 6 : POWER ON / OFF SELECTION SWITCH
- 7 : MAX AMP VOLUME
- 8 : LOAD AMP VOLUME

#. TERMINAL BLOCK

- 가 : SWITCH가 REMOTE VOLUME
- : STR-UNIT POWER RUN
- : CONTROLLER (4 - 20mA)
- : ALARM
COM : ALARM COMMON
NO : ALARM A
NC : ALARM B



Current(A) \ Size(mm)	H	W	W1	D
~35	160	126	106	100
~50	205	126	106	100
~80	350	180	120	150
~150	350	185	120	196
200~250	450	210	150	250
300~350	470	240	210	265
400~600	520	240	210	265
800				

OPERATION PARTS ()

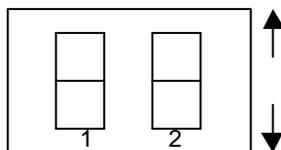
1. OPERATION PARTS

- 가. **POWER (PW) LED** : UNIT POWER SWITCH ON
- . **OVER CURRENT (O.C) LED** :
 - 2 (HEATER) EARTH 가
 - 2 가
- . **LOCAL/REMOTE SWITCH**:
 - 1) LOCAL :UNIT MAXAMP VOLUME SWITCH.
 - @COM LOCAL
 - 2) REMOTE :HEATER PANEL 가 (B10KΩ)
 - HEATER PANEL TIC4~20mA SWITCH.
 - @COM REMOTE
- . **AUTO/HAND SWITCH** :
 - 1) AUTO : TIC (4~20mA, 1~5V)
 - @COM AUTO
 - 2) HAND : UNIT MAX.AMP VOLUME
 - @COM HAND
- . **MAXAMP VOLUME** : (LOCAL, REMOTE) TOGGLE SWITCH.
- . **LOADAMP VOLUME** : SETTING TOGGLE SWITCH.

2.

- 가. **VR** : UNIT
- @HEATER PANEL 가 (B10 KΩ)
- . **RUN** :
 - HEATER PANEL POWER SWITCH UNIT ON/OFF SIGNAL CABLE
 - @ 60A UNIT UNIT POWER SWITCH OFF
 - 50A UNIT ON/OFF 1 2
 - . **4~20mA** : AUTO TIC 4~20mA
 - 4~20mA UNIT 가 UNIT LED가
 - RELAY 가
- . **ALARM** : ALARM

STR-UNIT



- 1. UNIT 1 SWITCH " " (PHASE CONTROL) " "
- (CYCLE CONTROL)
- @
- 2. UNIT () 2 SWITCH HEATER " / "

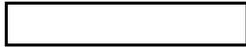
- @ HEATER " "
- 3. TIC4~20mA (GREEN LED) 4~20mA +, -
UNIT OPERATION
- 4. HEATER SETTING 20 % 가 (YELLOW LED)
- 5.. 50 HZ 60 HZ



- 가. (PHASE CONTROL)
- AC 50HZ, 60HZ 가 60HZ 1/2 CYCLE 8.33ms
0~180 AC 1/2 CYCLE
- 8.33ms 0~180
AC AC

(CYCLE CONTROL)

- ON/OFF ON/OFF AC ZERO ON
- OFF NOISE
- @ , 가



1. HIGH SPEED FUSE

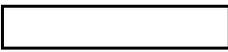
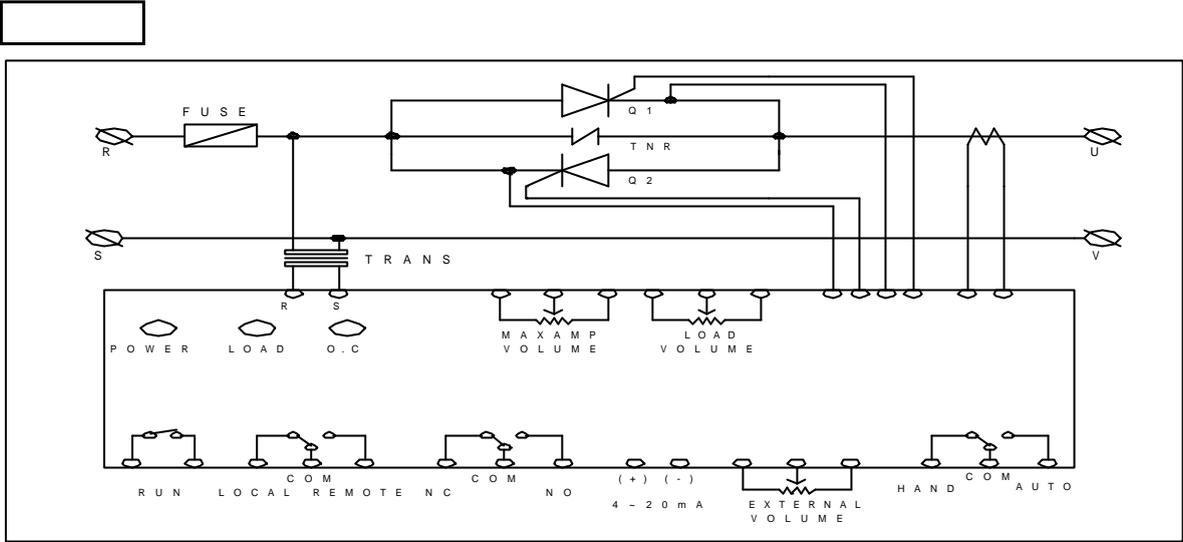
- 가. (HEATER) :
- 1) 100%가 (HEATER)
- 2) (U.V)
- 3)
- (TRANSFORMER) : 1 NOISE

2. (O.C LED)

- 가. GREEN LED : 4~20mA 가
- . RED LED :
- 1) LOAD.AMP VOLUME O.C
- 2)
- 3) LOAD.AMP VOLUME
- @ O.C LED
- @ UNIT 가 RUN SOFT START
- . YELLOW LED 가 : HEATER 가 20 %

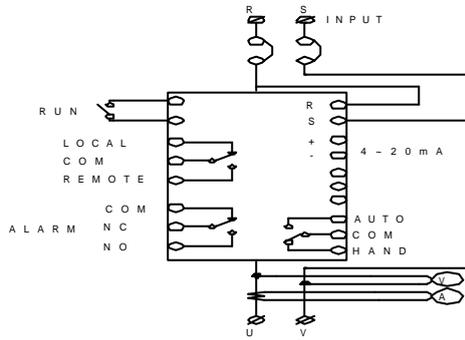
3. _____

- 가. (HAND) 100 % AUTO(TIC 4~20mA)
- UNIT 4~20mA (+, -) 4~20mA 가
- .TIC SETTING 가 5 가
- @ 가
- .UNIT FAN 가 SCR 가
- .HEATER SCR 가 P.C.B
- . OPERATION PARTS
- . CONTROL TRANSFORMER 가

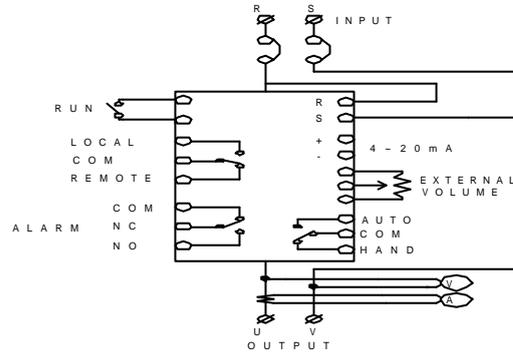


가. (ON/OFF)

(volume)

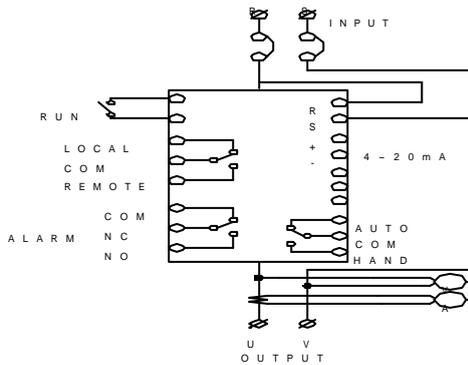


(volume)



나. (4~20mA)

(volume)



(volume)

