MOTOR CONTROLLER

GENERAL INFORMATION

The SMC 505 series is applied to the automatic changeover system. In this system, 2 or 3 motors are monitored their operations and the controllers communicate with each other, and in case some trouble occurs to the running motor, pressure or control system, the stand-by motor starts automatically and runs instead of the running motor or parallel with running motor.

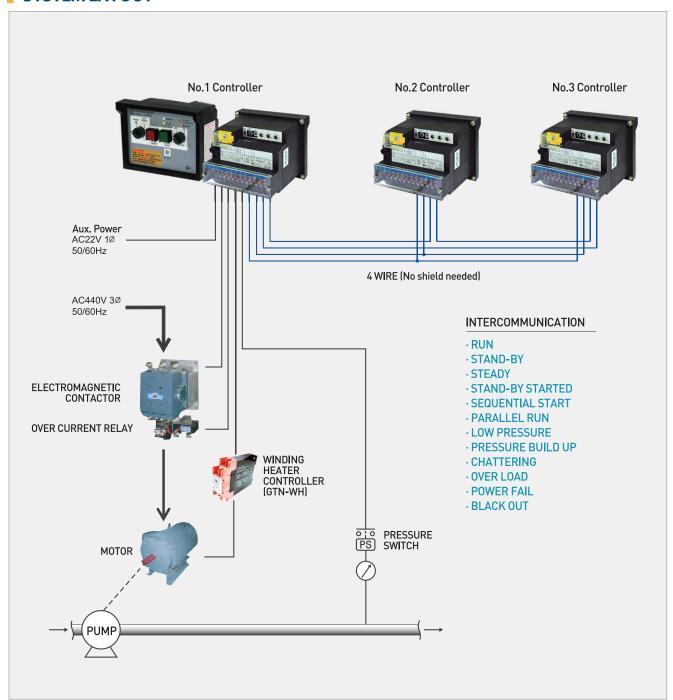
As the major point, SMC 505 series has common circuit to 2 or 3 stand-by, so design and maintenance can be done economically. And it has interlock device and auto-changeover function (by 4 wires hardware intercommunication function between running, stand-by and steady state which is not under influence of noise.) for various abnormal conditions.

As a result, SMC 505 series can expansively applied to the special function.

And also, it has sequential start function (UVP / UVR), self diagnosis, alarm signal output, remote control and manual emergency control function.

Note.) Refer to the technical manual to see the detail description of function.

SYSTEM LAYOUT



SMC-505H



REAR VIEW



SIDE VIEW



SMC-505



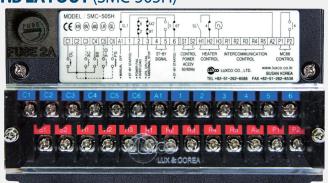
REAR VIEW



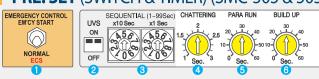
FRONT VIEW LAYOUT

1 NAME OF PRODUCT	SMC-505 OR 505H LIGHT UP IN GREEN LIGHT UP IN YELLOW Ø18 SELECTOR SWITCH 18 x 18 RED 18 x 18 GREEN TACT SWITCH LIGHT UP IN WHITE DUAL COLOR LED
	- HEALTH: LIGHT UP IN GREEN - ABNORMAL: ① LIGHT UP STEADILY IN "RED" WITH ALARM SIGNAL OUTPUT.(SYSTEM ABNORMAL) ② FLICKERING IN "RED" WITH ALARM SIGNAL OUTPUT.(SELF DIAGNOSIS SYSTEM: CPU FAIL)
11 STAND-BY INDICATOR	LIGHT UP IN YELLOW
2 HEATER SWITCH	Ø18 SELECTOR SWITCH
(8) HEATING INDICATOR	

T.B LAYOUT (SMC-505H)



PRE. SET (SWITCH & TIMER) (SMC-505 & 505H)



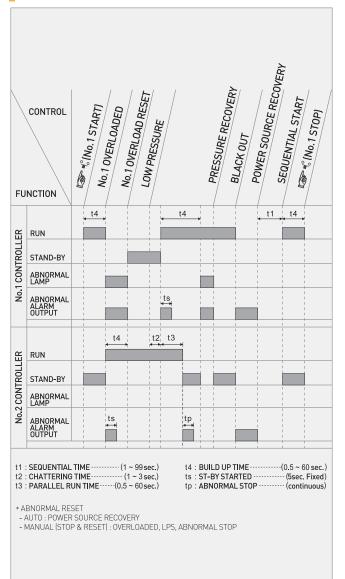
- 1 ECS SWITCH ----- EM'CY START BY TOGGLE SWITCH 2 UVS SWITCH ----- SEQUENTIAL START BY DIP SWITCH
 - UVR UNDER VOLTAGE RELEASE : (SEQUENTIAL START ACTION) UVS SET "ON" POSITION
 - UVP UNDER VOLTAGE PROTECTION : (NO SEQUENTIAL START ACTION UVS SET "OFF" POSITION
- 3 SEQUENTIAL TIMER ---- 1~99 SEC. ADJUSTABLE BY DIGITAL SWITCH 0~1 (SEC.) IN THE SETTING RANGE OF 0~99 (SEC.) IS SET FOR 1(SEC.)
- 4 CHATTERING TIMER ---- 1~3 SEC. ADJUSTABLE BY V / R 5 PARA RUN TIMER ----- 0.5~60 SEC. ADJUSTABLE BY V / R
- 6 BUILD UP TIMER ------ 0.5~60 SEC. ADJUSTABLE BY V / R

T.B LAYOUT (SMC-505)

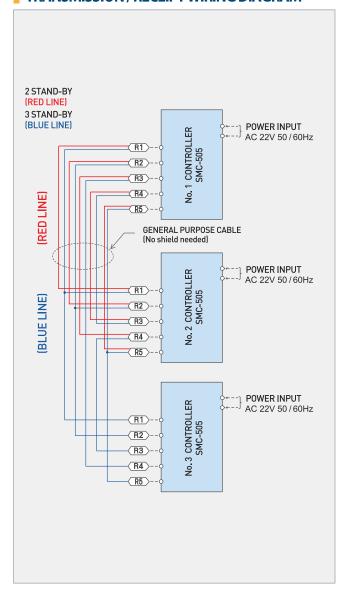


MOTOR CONTROLLER

FUNCTION TIMING FLOW CHART FOR 2 STAND-BY



TRANSMISSION / RECEIPT WIRING DIAGRAM



FUNCTION TABLE

_							
MODE			CONDITION				
No.1 STARTER	No.2 STARTER	No.3 STARTER	No.1 MOTOR	No.2 MOTOR	No.3 MOTOR		
AUTO AUTO CHANGE CHANGE		AUTO	RUN	STAND-BY	STEADY		
			STEADY	RUN	STAND-BY		
			STAND-BY	STEADY	RUN		
	ALITO		RUN	ABNORMAL	STAND-BY		
	CHANGE	STAND-BY	RUN	ABNORMAL			
	OTHUVOL	OT IN TIVOL	ABNORMAL	STAND-BY	RUN		
			RUN	RUN	STAND-BY		
		STAND-BY	RUN	RUN			
		RUN	STAND-BY	RUN			
AUTO	AUTO	MANUAL or	RUN	STAND-BY			
CHANGE CHANGE	EMERGENCY CONTROL	STAND-BY	RUN				
MANUAL or AUTO EMERGENCY CONTROL CHANGE	AUTO	AUTO AUTO		RUN	STAND-BY		
	CHANGE		STAND-BY	RUN			
AUTO CHANGE	MANUAL or EMERGENCY CONTROL	AUTO CHANGE	STAND-BY		RUN		
			RUN		STAND-BY		

SMC-505H CONNECTION DIAGRAM

FH1 U CPT-H U <u>888H</u> 1300014 V1 1300014 V1 1300014 V1 440/15 ξ∛**:}(**Μ) FC1 0 0 A1(88)A2 FC2 FC2 A1 (4X) A2 (HM) GTN-WH Ð FØ INTERLOCK BETWEEN L.O PUMP AND L.O CAMSHAFT PUMP SOURCE WAS ABNORMAL COMMENT OF THE ATTING COMMENT OF THE ATTING CHANGE COMMENT OF THE ATTING CHANGE COMMENT OF THE ATTING CHANGE COMMENT OF THE ATTING COM (2) TO L.O CAMSHAFT PUMP STARTER ST-BY STARTED MANUAL : OFF POWER FAIL OVERLOAD GTN-WH AX2 9T 3 LPS, CPU FAIL ABNORMAL STOP -(5)--ST-BY STARTED AUTO CHANGE / A HEATER SWITCH 6 🙀 O GND(U 3C(START) 4C) 7 (LP:ON) _9→) IF REQUIRED FOR 2 ST-BY POWER FAIL OVERLOAD UVP.UVR SELECTOR AX2 9T LPS, CPU FAIL ABNORMAL STOP MANUAL : OFF SL1 ST-BY STARTED NTERCOMMUNICATION WITH OTHER UNIT

SMC-505 CONNECTION DIAGRAM

