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Susol ACB UL type digital trip relay P, S-Type manual instruction

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Safety precaution

🖄 WARNING

- 1. Please do not operate. inspect, and install by yourself.
- 2. Please do not wiring operation during power-on or under operation; it may result in electric shock.
- 3. Please do not wiring operation with the live bus bar; it may result in electric shock or a fire and property damage by charging voltage of current transformer.
- 4. Please do not attempt to disassemble even when the power not applied; it may result in electric shock by charging current remained in the product.
- 5. Please do not wire or operate with wet hands; it may result in electric shock.
- 6. Please do not use any damaged cable; it may result in electric shock.
- 7. Please work after wearing safety gear.
- 8. Please work after setting up the safety caution sign.
- 9. Please disconnect all Input/output wires when measuring HI POT or meger.

- Safety caution for installation & terminal wiring
- 1. Apply the rated voltage to the power supply terminal; it may result in property damage or fire.
- 2. Please keep away product from screws, metals, water, or oil; it may result in fire.
- 3. Please keep the rated load and polarity of input & output contacts; it may result in property damage or fire.
- 4. Specialist help shall be sought for the installation and maintenance of product; it may result in malfunction or accident.
- Inspection item before power supply being applied
- 1. Check the voltage or polarity of control power supply.
- 2. Check the wiring condition of input/output terminal.
- Caution for storage and handling
- 1. Please store at dry and clean place.
- 2. Please do not throw or put force on it during transport.
 - It may result in malfunction or faulty operation.
- Caution for disposal
- 1. Please dispose of it in accordance with industrial waste regulation.

A. P type, S type relay setting

1. Setting the rated current

ACautions

UL type OCR can set various rated current by inserting the Rating Plug.

■ Only the Rating Plug within the range 45~100% of ACB Ampere Frame can be used.

■ When not inserting the Rating Plug or inserting it which is out of the range, Error-1/2 will occur and LED will flicker.

Rating plug setting example



- L
 1) When Ampere Frame of ACB is 800A, and Rating Plug is 400A,
 2) Rating Plug rated In = 400A and is 45% of 800A, will operate normally.
 - 1) When Ampere Frame of ACB is 800A, and Rating Plug is 1600A,
 - 2) Rating Plug rated In = 1600A and is out of the proper range, Error-2 will show up.
 - 3) Disconnect the Rating Plug and insert proper Rating Plug to operate it normally.
 - 1) When not inserting the Rating Plug regardless of Ampere Frame of ACB,
 - 2) Error-1 will show up on the screen.
 - 3) If inserting proper Rating Plug, it will operate normally.



2. Fine adjustment of relay setting current - OCR

1 Cautions

Current setting of OCR and OCGR is basically done by using Knob.

■ Minute current value which can not be set with Knob, ▲ ▼ button can be used to fine control.

■ Fine adjustment is able within the range between current Knob and the next Knob setting, and if Knob is moved, all fine controlled data will be initialized.

OCR and OCGR is separated, so if the Knob(long, short, instantaneous timing) related to OCR is changed, fine control of OCGR is not changed.

Example of using fine adjustment



3. Fine adjustment of relay setting current - OCGR

Cautions

■ Relay setting of OCR and OCGR is basically performed with setting value of Knob.

Control unit of Knob is gradation.

■ When using the current value which can not be controlled accurately with gradation of Knob, use fine controlling function.

OCGR detail setting



Cautions When initial Password is not entered, press the Enter key after moving the cursor to far right (press key 3 times) to pass the Password screen. If the Password is already entered, you can't pass with above steps. Display Button Contents

Display		Dutton	Contents
ent	OCGR		 Use ▲ ▼ button to move to control position. Control part will flicker if you press Enter(<-) button.
ie Adjustm∈	401 A 200 ms I2T Off	Reset ESC	 3) Fine control with ▲ ▼ button then press Enter (<-), and will switch to above menu after saving the data 4) Press Reset/Esc button and will return to the above menu without saving the data.
Fir	Setting Change P		
	Enter-YES Esc-NO		

4. Over voltage / Under voltage relay (OVR / UVR)

1Cautions

■ If overvoltage, low voltage occur on any phase among the 3 phases voltage, only TRIP/None/DO1/DO2/DO3/Fault is available.

■ Low voltage relay operates when the Max voltage of 3 phase voltage is over 60V. When all 3 phase voltage is under 60V, low voltage relay is Disable.

■ Overvoltage/low voltage relay is applied individually on each phase. When 3phase voltage is low at the same time, all 3 of Fault Event will be recorded.

OVR, UVR Setting



Display		Button	Contents
istment	OVR/UVR SetPick Up Delay725 VColor1.2 sActionNonePick Up Delay150 VDelay1.2 sActionD01	Reset ESC	 Use ▲ ▼ button to move to control position. Control part will flicker if pressing the Enter(<┘) button. Fine control with ▲ ▼ button then press Enter (<┘), and will switch to above menu after saving the data Press Reset/Esc button and will return to the above menu without saving the data.
Fine Adju	Setting Change ?		* OVR Setting range:151V ~ 900V * UVR Setting range: 80V ~ 899V
	Enter-YES Esc-NO		

4. Over voltage / Under voltage relay (OVR / UVR)

Display	Contents
OVR/UVR Set Pick Up : 724 V Delay : 1.2 s Action : None Pick Up : 150 V Delay : 1.2 s Action : D01	 Pick Up OVR Pick-up : UVR Pickup Setting value ~ 900V UVR Pick-up : 80V ~ OVR Pickup Setting value -1V Delay : 1.2s ~ 40s Action None : Not using relay function. Fault : When OVR, UVR operating condition, only Fault Event is recorded. DO1 : When OVR, UVR operating condition, only Fault Event is recorded and D01 Relay is Closed. DO2 : When OVR, UVR operating condition, only Fault Event is recorded and D02 Relay is Closed. DO3 : When OVR, UVR operating condition, only Fault Event is recorded and D03 Relay is Closed. TRIP : When OVR, UVR operating condition, records the Fault Event and trips ACB. The upper part of screen composition is OVR Setting, and the bottom part is UVR setting.

5. Voltage / Current unbalance type relay (Vunbal / Iunbal)



6. Reverse/Over power relay (rP / OPR)



7. Over / Under frequency relay (OFR, UFR)



1. Measurement display arrangement



2. Initial display and measurement outline

🚹 Cautions

If there isn't any operation and key input over a minute on the setting screen or other measurement screen, (not initial screen) it automatically moves to initial screen. (Backlight will turn off after 40 seconds.)

	Display	Button	Contetnts
Initial display	1000 A L R S T N	▼ Δ	Indicates the % load based on the current of Ir. Ex) If setting 0.4 of the Ir knob on the 2000AF, 100% Ir means 800A(0.4*2000).
	$\begin{tabular}{ c c c c } \hline Metering Overview \\ \hline VR & 220 & V < 0.0 \\ \hline VR & 1000 & A < 330.0 \\ \hline P & 986 & kW \\ \hline Q & 569 & kVar \\ \hline Q & 569 & kVar \\ \hline Pf & 0.866 & F & 60.0 \\ \hline EP & 56 & kWh \\ \hline EQ & 32 & kVarh \\ \hline \end{tabular}$	C	 P : 3 phase active power Q : 3 phase reactive power Pf : Synthetic power factor EP : Indicates forward energy EQ : Indicates power consumption energy
Display setting	Demand Current[A] R : 1000 S : 1000 T : 1000 Max Demand [kW] 986 2012/02/14 11:15:00	C	 Demand Current[A] Max Demand size and occurrence time information
	Max Power [kW] 987 2012/02/14 10:00:00 <u>Ground Curr [A]</u> 10:00:00		 Maximum power size and occurrence time information Occurrence time information of earth current

3. Vector diagram display Cautions ■ Indicates 3 phase voltage current vector and analysis value of symmetrical component. All values are updated once in every second. Vector diagram should be drawn in phase voltage when 3phase 4 wire mode, and line voltage when 3 phase 3 wire mode. ■ When 3 phase 4 wire mode, the value of vector should be indicated in phase voltage and line voltage on shifts in every 3 seconds. Display Button Contents 1. When 3 phase 4 wire mode, the phase voltage should be Vector Diagram indicated in vector. 2. When 3 phase 3 wire mode, the line voltage should be indicated in vector. 1. When 3 phase 4 wire mode, phase voltage and line voltage U setting VOLTGAE [V] should be indicated on shifts in every 3 seconds. VR : 220 VS : 220 VT : 220 0.0 2. When 3 phase 3 wire mode, only the line voltage is ∠**240.0** indicated. ∠**120.0** Display **CURRENT** [A] IR : 1000 2330.0 IS : 1000 ∠**210.0** IT : 1000 IN : 0 ∠ 90.0 U Vunbal 3Ph Vpos : 220 V Vneg : 0 V Unbal : 0.0% lunbal 3Ph loos : 1000 A ineg : 0 A Unbal : 0.0 % **VOLTGAE** [V] 0.0 VRS :380 ∠ ∠240.0 ∠120.0 : 380 : 380 CURRENT [A] : 1000 ∠ 330.0 is It ∠210.0 ∠ 90.0 1000 1000 IN

4. Power diagram display

Cautions

■ Indicates 3 phase voltage current vector and symmetrical component analysis value.

All values are updated once every second.

Decimal place is not indicated so there may be a slight difference when adding all 3 phase values.

The scale of the screen is automatically regulated.

Energy measurement display



5. Energy measurement display

1 Cautions

Indicates the energy measurement on each phase of 3 phases or compound energy(normal direction valid, invalid, reverse direction valid, invalid).

■ All values are updated once every second.

There may be difference between energy addition of each phase and compound energy addition, (refer to 1)





Sometimes when phase current appears like picture on the left, the combined power is 200.

R phase accumulates 100 on forward energy, as for S phase, it accumulates 100 on the reverse energy and T phase accumulates 200 on the forward energy. Combined power is 200 so the compound energy is accumulated by 200 on the forward energy. After an hour in this circumstance, 1.Forward efficient energy : Total : 200 (R:100, S: 0, T:200) 2.Reverse efficient energy: Total : 0 (R: 0, S:100, T: 0) Therefore, there may be difference,

6. Waveform and harmonics analysis display

Cautions

Harmonic wave is analyzed after achieving the wave form of 3phase voltage/current with 128 sample/cycle.

- It is a function only for S type.
- TDD and K-Factor value is indicated on the analysis of Current harmonic wave.
- It is performed once every 30 seconds.
- Harmonic wave is measured up to 63rd.

Waveform and harmonics analysis



1. Menu arrangement



2. Device H/W setting - wiring setting

Cautions

P type and S type supports 3phase 4 wire type and 3phase 3 wire type.

Connection of voltage module should be conducted according to wiring type.

H/W setting – Connecting type should be set properly on the wiring setting.

Wiring setting



3. Device H/W setting - communication setting

🔨 Cautions

- P type and S type supports MODBUS RS-485 communication.
- It is composed of Multi-Drop type on the RS-485 line.
- Terminal deals 150 ohm.



4. Device H/W setting - password setting

🕂 Cautions

P type and S type provides password function to protect the device. The initial password is [0000]. It may be changed through setting new password.



5. Device H/W setting - time setting

Cautions

P type and S type include precise clock inside of them.

Time may be changed by remote controlling or on the device.



6. Device H/W setting – PT ratio setting

Cautions

P type and S type provide PT proportion setting function.

It make it as a rule to connect directly in VDM and set proportion when conducting VDM after using PT.



7. Device H/W setting- demand setting

Cautions

P type and S type provide demand measuring function,

Demand cycle can be set in minutes, dividing 60 minutes without decimal point.



8. Device H/W setting - data reset

🔨 Cautions

■ P type and S type constantly records the maximum power, maximum demand, energy, number of operation cycle of circuit breaker, operating time of circuit breaker. User may initialize the data and restart.



9. Device H/W setting - DO setting

🚹 Cautions

There are 3 Relay Output on P type and S type. You may set to fit in the purpose. Setting can be used in relay operation, OCR/OCGR operation alarm, overload alarm.



9. Device H/W setting – DO setting

	DO does not operate in any event.
LTD	Closes the related DO [Relay] when long timing trip occurs.
S,I	Closes the related DO [Relay] when short timing, instantaneous trip occurs.
GND	Closes the related DO [Relay] when ground trip occurs.
PTA	Closes the related DO [Relay] when Pre-Trip Alarm occurs.
AL	Closes the related DO [Relay] when overload [over 95% of rated current] occurs.



10. Device H/W setting – language setting



10. Device H/W setting – option setting

Cautions

P type and S type provide option function.

May set ground Blocking time, Action, HOT start, ZSI in option.



12. Event information display

🔨 Cautions

P type and S type record the events which occur in the device.

Records the information of occurred event up to 256 hourly.

When the event occurs more than 256, it deletes the earliest data and records the newest data.

Event information

	Change wiring	Records the Event when the user wants to change the wiring type.		
	Change communication condition	Records communication environment modification (Speed, Address, Swap)		
	Change password	Records the information when changing the password		
	Change time	Records when changing the time information of inside		
	Change demand setting	Records when changing the demand setting (demand cycle)		
	Change DO setting	Records when changing the setting of DO1~DO3		
	OCR fine control	Records when fine controlling long, short, instantaneous relay current of OCR		
	OCGR fine control	Records when fine controlling the relay current of OCGR		
Device setting Alternation	Change OVR/UVR	Records when changing the setting of OVR/UVR relay		
Alternation	Change imbalance relay setting	Records when changing the setting of voltage/current imbalanced relay.		
	Change reverse power relay setting	Records when changing the setting of reverse power relay.		
	Change over power relay setting	Records when changing the over power relay setting.		
	Chang option	Records when changing the option		
	Change language	Records when changing the language		
	Change PT proportion	Records when changing the PT proportion of OCR		
	Change frequency relay setting	Records when changing the setting of low/high frequency relay		
	Change OCR knob	Records when changing the long/short/instantaneous knob of overall device		
	Change OCGR knob	Records when changing the knob which is related with ground of overall device.		
	Interior communication faulty	Records when communication between the inner CPU is bad.		
	MTD wire is fall out/disconnected	Records when MTD (Magnetic Trip Device) wire connection is bad.		
Device faulty occurrence	Memory faulty	Records when the record memory of the inside is bad		
	Not inserting Rating Plug	Records when Rating Plug is not inserted.		
	Rating Plug misinsertion	Records when Rating Plug is misinserted.		
	Change Local / Remote	Records when changing the device mode into Local↔Remote		
	Power on	Records after initial Booting of P type/S type.		
Device status	Fault Reset	Records if Reset when fault has occurred.		
Alternation	DO1 control (Close/Open)	Records when changing the output of DO1 OFF \rightarrow ON, ON \rightarrow OFF		
	DO2 control (Close/Open)	Records when changing the output of DO2 OFF \rightarrow ON, ON \rightarrow OFF		
	DO3 control (Close/Open)	Records when changing the output of DO3 OFF \rightarrow ON, ON \rightarrow OFF		

12. Event information display

	Initialize maximum power	Records when initializing the maximum power
	Initialize maximum demand	Records when initializing the maximum power
Change device information	Initialize energy	Records when initializing the energy(wattage)
	Initialize event information	Records when initializing all of the event information
	Initialize Fault information	Records when initializing all of the fault information



12. Event information display

Display indication

	Change wiring type	"Wiring"
	Change communication condition	"Comm Setup"
	Change password	"Password"
	Change time	"Time Change"
	Change demand setting	"Demand"
	Change DO setting	"OCR DO Config"
	OCR fine control	"OCR Fine Set"
Change	OCGR fine control	"OCGR Fine Set"
device setting →	Change OVR/UVR	"OVR/UVR"
"Cfg Change"	Change unbalance relay setting	"Unbal RY"
	Change reverse/overpower relay setting	"rP/OPR RY"
	Change frequency relay setting	"OFR/UFR"
	Change option	"OCR Options"
	Change language	"Language"
	Change PT proportion	"PT Ratio"
	Change OCR knob	"OCR Knob"
	Change OCGR knob	"OCGR Knob"
	Inner communication faulty	"Inter Comm"
Device faulty	MTD wire is fall out/disconnected	"MTD Wire"
\rightarrow	Memory faulty	"Memory"
Error	Rating Plug not inserted	"Miss-Rate Plug"
	Rating Plug misinserted	"Mismatch Plug"
	Change Local / Remote	"Local 2 Remote" "Remote 2 Local"
Change	Power on	"Power On"
device status	Fault Reset	"Trip Reset"
"Sta Change"	DO1 control (Close/Open)	"DO#1 CTRL"
	DO2 control (Close/Open)	"DO#2 CTRL"
	DO3 control (Close/Open)	"DO#3 CTRL"
	Initialize maximum power	"Reset Max P"
Change Device	Initialize maximum demand	"Reset Max Demand"
→	Initialize energy	"Reset Energy"
"Rst Data"	Initialize event information	"Clear Sys Event"
	Initialize Fault information	"Clear Trip Event"

13. Fault information display

Cautions

■ P type and S type record the fault (Trip & selective relay operation) up to 256 in order to notify the operation information and cause when trip or relay have operated

■ When the event occurs more than 256, it deletes the earliest data and records the newest data.

Fault information				
	Long timing	Records when over current relay operates		
	Short timing	Records when short timing fault relay operates		
OCR	Instantaneous	Records when instantaneous fault relay operates		
OCGK	Ground	Records when trip occurs due to earth current		
	Ground-ZCT	Records when trip occurs due to earth[outer CT] current		
	Leakage	Records when trip occurs due to leakage current		
	PTA (Pre Trip Alarm)	Records when Pre Trip Alarm relay operates		
	OVR	Records when OVR relay operates		
	UVR	Records when UVR relay operates		
	Voltage Unbalance	Records when Voltage unbalance relay operates		
Selective relay	Current Unbalance	Records when current unbalance relay operates		
	Reverse Power	Records when Reverse power relay operates		
	Over Power	Records when Overpower relay operates		
	OFR	Records when Over frequency relay operates		
	UFR	Records when Under frequency relay operates		

Measurement display status

Configuration status

Enter password



13. Fault information display

Display indication-Fault information

OCR		Long timing		"OCR-Long"	
		Short timing		"OCR-Short"	
		Instantaneous		"OCR-Ins"	
	OCGR	Ground		"OCGR"	
		Ground-CT (outer CT)		"OCGR-ZCT"	
		Leakage		"Leakage"	
		PTA (Pre Trip Alarm)		"PTA"	
		OVR		"OVR"	
		UVR		"UVR"	
		Voltage Unbalance		"Vunbal"	
	Selective relay	Current Unbalance		"lunbal"	
		Reverse Power		"rP/OPR"	
		Over Power		"rP/OPR"	
		OFR		"OFR"	
		UFR		"UFR"	
٥	Display indication-I	ndication of fault pha	se a	and trip value	
		long timing	"DF		
			PI	Iase-R XXX A"	
		Short timing	"Pl "Pl	lase-K XXX A" lase-S XXX A"	
	OCB	Short timing	"Pi "Pi "Pi "Pi "Pi	nase-K XXX A" nase-S XXX A" nase-T XXX A" nase-N XXX A"	
	OCR OCGR	Short timing Instantaneous IDMTL	"Pi "Pi "Pi "Pi	iase-R XXX A" iase-S XXX A" iase-T XXX A" iase-N XXX A"	
	OCR OCGR	Short timing Instantaneous IDMTL Ground	19" 19" 19" 19" XX"	nase-R XXX A" nase-S XXX A" nase-T XXX A" nase-N XXX A"	
	OCR OCGR	Short timing Instantaneous IDMTL Ground Leakage	۲۹ ۲۹" ۲۹" ۲۹" ۲۷ ۲۷	nase-R XXX A" nase-S XXX A" nase-T XXX A" nase-N XXX A" xX A"	
	OCR OCGR	Short timing Instantaneous IDMTL Ground Leakage PTA (Pre Trip Alarm)	rq tq" tq" tq" xx" xx" xx"	nase-R XXX A" nase-S XXX A" nase-T XXX A" nase-N XXX A" xX A" xX A"	
	OCR OCGR	Short timing Instantaneous IDMTL Ground Leakage PTA (Pre Trip Alarm) OVR	rq rq" rq" rq" xx" xx" rq"	nase-R XXX A" nase-S XXX A" nase-T XXX A" nase-N XXX A" xX A" xX A" xX A" nase-R XXX V"	
	OCR OCGR	Short timing Instantaneous IDMTL Ground Leakage PTA (Pre Trip Alarm) OVR	19 19 19 19 19 XX XX XX 19 19	nase-R XXX A" nase-S XXX A" nase-T XXX A" nase-N XXX A" xX A" xX A" xX A" nase-R XXX V" nase-S XXX V"	
	OCR OCGR	Short timing Instantaneous IDMTL Ground Leakage PTA (Pre Trip Alarm) OVR UVR	*Pt *Pt *Pt *XX *XX *XX *XX *XX	Iase-RXXX A"Iase-SXXX A"Iase-TXXX A"Iase-NXXX A"Iase-NXXX A"Ix A"Iase-RIx A"Iase-RIase-RXXX V"Iase-SXXX V"	
	OCR OCGR	Short timing Instantaneous IDMTL Ground Leakage PTA (Pre Trip Alarm) OVR UVR Voltage Unbalance	"Pt "Pt "Pt "Pt "XX "XX "XX "XX "XX "Pt "Pt "Pt "XX	Tase-R XXX A" Tase-S XXX A" Tase-T XXX A" Tase-N XXX A" Tase-N XXX A" Tase-R XXX V" Tase-S XXX V" Tase-T XXX V" Tase-T XXX V"	
	OCR OCGR	Short timing Instantaneous IDMTL Ground Leakage PTA (Pre Trip Alarm) OVR UVR UVR Voltage Unbalance Current Unbalance	"Pt "Pt "Pt "Pt "XX "XX "XX "XX "Yt "Pt "Pt "XX	Tase-R XXX A" Tase-S XXX A" Tase-T XXX A" Tase-N XXX A" Tase-N XXX A" Tase-R XXX V" Tase-S XXX V" Tase-T XXX V" Tase-T XXX V"	
	OCR OCGR	Short timing Instantaneous IDMTL Ground Leakage PTA (Pre Trip Alarm) OVR UVR UVR Voltage Unbalance Current Unbalance Reverse Power	PT PP PP PP XXX XXX PP PP XXXX XXXX XXXXX XXXXX XXXXX XXXXX XXXXXX	Tase-R XXX A" Tase-S XXX A" Tase-T XXX A" Tase-N XXX A" Tase-N XXX A" Tase-R XXX V" Tase-R XXX V" Tase-S XXX V" Tase-T XXX V" Tase-T XXX V" Tase-T XXX V"	
	OCR OCGR	Short timing Instantaneous IDMTL Ground Leakage PTA (Pre Trip Alarm) OVR UVR Voltage Unbalance Current Unbalance Reverse Power	"Pr "Pr "Pr "XX "XX "XX "Yr "Pr "Yr "XX "XX "XX	Tase-R XXX A" Tase-S XXX A" Tase-T XXX A" Tase-N XXX A" Tase-N XXX A" Tase-R XXX V" Tase-S XXX V' Tase-S XXX V' Tas-S X	
	OCR OCGR	Short timing Instantaneous IDMTL Ground Leakage PTA (Pre Trip Alarm) OVR UVR UVR Voltage Unbalance Current Unbalance Reverse Power Over Power	"Pt "Pt "Pt "Pt "Pt "XX "XX "XX "XX "XX "XX "XX "XX	Tase-R xxx A" Tase-S xxx A" Tase-T xxx A" Tase-N xxx V" Tase-S xxx V" Tase-S xxx V" Tase-S xxx V" Tase-T xxx V" Tase-T xxx V" Tase-S xxx V" <t< td=""></t<>	

14. Event information / fault information deletion

🔨 Cautions

P type and S type can record event information and fault information up to 256 of each.

- The user may delete the event and Fault list as one wishes.
- Deleted information remains in the event information.



15. System information display





System Info.		
Date Time		
2012/03/1	5 21:23:30	
Rating	1000 A	
Ex-Func	4POCGR	
T-OPER	220 h	
T-CB ON	180 h	
Ver-Msp 4.01UL		

Rating	Rated current of ACB
EX-Func	Extended functions of ACB
Freq	Rated frequency
CB ON#	Breaking/Closing numbers of a circuit breaker
T-OPER	OCR(P/S type) operating time
T-CB ON	Operating time of ACB under closed condition
Version	Firmware version

16. Local / Remote setting

For P and S type, one can set whether to control locally or remotely. .

When device is set to local, every operation is available through the Key of OCR..

When device is set to Remote, it is locked not to be controlled from the local site.

