FO Fuji Electric

To All Customers

Rep No.B14036 December 10, 2014 Fuji Electric FA Components & Systems CO., Ltd. Business Planning Division Business Operations Department

Protective Relay QHA Series Notice of Changing a Part of Specification for Undervoltage Relay

We would like to thank you for your continued patronage of Fuji products. We will be changing some products as described below. Please review the following information and take appropriate actions. Please inform all related sections of your company.

Product names	Undervoltage relay				
Series and series name	QHA Series				
Types	QHA-UV1				
Changed parts	The output contact specification is changed				
Details of the change	The tripping contact and alarming contact are changed from NC contact to C contact. * For changes details, see "QHA-UV1 Change Details".				
Reason for change	For improving operability				
Date of production change	Changed products scheduled to be produced from February 2015.				
Attachments	Attachment 1: "QHA-UV1 Change Details" Attachment 2: "Specifications and Outline Drawing"				
Notes concerning the change	Please note that the terminal numbers of the wiring have been changed. This change does not have any effect on the output contact capacity and external and mounting dimensions of the product.				

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[Attachment 1]

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QHA-UV1 Change Details

<Change of appearance>



The tripping contact, alarming contact, and terminal name plate are changed

<Comparing examples of tripping contact and alarming contact>

Example: Circuit when turning ON the switch again after the recovery of this product (automatic recovery)



Note: The circuit above is simplified in order to give a clear explanation. When using the example as a reference, take care with regards to the power supply, interlock, and others.

overvoltage and undervoltage Specifications of protective relays

Description Type Tripping sys Rated voltage Rated freques Setting Characteris- tics	voltage	*1,*2 *2 *2 :tuated voltage	QHA- 115-120-125	DC shu 110 50/	Undervoltage relay QHA-UV1 Int trip V AC 60(Hz)		
Tripping sys Rated voltage Rated frequen Setting Characteris-	Voltage Time Accuracy of ac Accuracy of ac	*2 *2 tuated voltage	115-120-125 -145-	DC shu 110 50/	unt trip V AC		
Rated voltage Rated freques Setting Characteris-	Voltage Time Accuracy of ac Accuracy of ac	*2 *2 tuated voltage	-145-	110 50⁄	V AC		
Rated frequen Setting Characteris-	Voltage Time Accuracy of ac Accuracy of ac	*2 *2 tuated voltage	-145-	50/			
Setting Characteris-	Voltage Time Accuracy of ac Accuracy of ac	*2 *2 tuated voltage	-145-	-	00 (112)		
Characteris-	Time Accuracy of ac Accuracy of ac	*2 tuated voltage	-145-		$\begin{array}{c c c c c c c c c c c c c c c c c c c $		
	Accuracy of ac	tuated voltage	0.1 - 0.2 - 0.5 -	-150(V) - Lock[L]	-100(V) - Lock[I]		
	Accuracy of ac		1				
				Within $\pm 5~\%$ of setting voltage			
	Reset voltage	tuated time	0.1 \sim 0.5s:Within 50ms 1 \sim 10s:Within \pm 5% of setting time				
	Reset Voltage		95% or more of setting voltage 105% or less of setting voltag				
	Run		Green-LED lamp				
1	Start		Red-LED lamp				
	Operation	Operation		Magnetic reversal type (Orange) - manual reset			
		Start *3			00		
		Ratio of elapsed time *3	10-20-30-40-50-60-70-80-90 (%))-60-70-80-90 (%)		
		Voltage *4	$75{\sim}160$ (V) ,	160(V)over""	$55{\sim}130$ (V) , $130(V)$ over"		
		Setting value *5		Setting volta	ge, Setting time		
Indicator	7-segment LED	7-segment LED Setting frequency *1,*2 indication: Reset system*1,*2		50, 60 (Hz)			
	indication:			O : Automatic, 1 : Manual			
	Red	Test	OP: It indicates that it is a selective state of compulsiv operation.				
	, .	Self-checking	CH:Start of self-checking , go:Normal Error code indication if it becomes abnormal				
	Record		Automatic display about the operating voltage up to the past 5 times.				
		Lights out	Indicator is off				
Reset system	Output contacts	Automatic reset	At the voltage setting voltage		At the voltage more than a setti voltage.		
		*1,*2 Manual reset		Reset by reset lever operation			
	Operation indi	icator	Manual	l reset :Reset 1	by reset lever operation		
Output contac	cts		Trip:1NO, Alar	rm: 1 NO	Trip: 1 NC, Alarm: 1 NC "Normally excited type, Undervoltage/power failure: 01		
	Trip (QHA-OV1:T ₁ , T ₂)		Make : 100V DC	•15A (L/R=0ms)	Break : 100V DC • 0. 25A (L/R=7m		
Contact	(QHA	A-UV1:Ta, Tb, Tc)	220V DC		220V AC • 2.2A $(\cos \phi = 0.$		
rating	Alarm (QHA *6 (QHA						
Power failur	e compensation c	perating time			10(s)		
		Run		2VA	4VA		
Consumption		Operation	3	BVA	3VA		
Operating te	mperature range	•	-20 to +50°C (no icing or no condensation) Max. operating temperature : +60°C				
Standard			JEC - 2511				
Test button			Built-in (For compulsive operation)				
Outline draw	ing			F810 03 38 (4)			
Mass	3			1 kg			
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*1) Set it by "FUNCTION SWITCH".

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*2) It is displayed approx. 2 seconds when "FUNCTION SWITCH", "VOLTAGE(V)" or "TIME(s)" is set.

- *3) It is displayed when the indicator selection switch is set to "ELAPSED TIME(%)".
- *4) It is displayed when the indicator selection switch is set to "VOLTAGE(V)".
 - Accuracy of the indication is $\pm 5\%$ (FS).
- *5) It is displayed when the indicator selection switch is set to "VOLTAGE SET(V)" or "TIME SET(s)".
- *6) The alarm contact will be reset in the following conditions.
 - i) The control power supply is shut off after the voltage relay is actuated. (Automatic reset, Manual reset.) QHA-OV1 : The alarm contact is reset automatically after about 150ms which a voltage relay is actuated. QHA-UV1 : The closed condition of the alarm contact is maintained.
 - ii) The control power supply is continuous supply after the voltage relay is actuated. (Automatic reset) The alarm contact is reset automatically after about 200ms which a voltage relay is actuated.
 - iii) The control power supply is continuous supply after the voltage relay is actuated. (Manual reset) The closed condition of the alarm contact is maintained.

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