

Digital Type Undervoltage Relay

DUT□UH, DUT□UT

DUT□UN, DUT□UM (Noise immunity conforming to standard of B-402)

★Information required with your inquiry or order. The pitch in parentheses need not be specified

Application		Detection of undervoltage						
Principle and name		Digital type undervoltage relay						
Classification	Auxiliary energizing source	★Type *17						
Unit standard structure type	DC	DUTUUHAS-2	DUTUUHAK-2	DUTUUHAA-2	DUTUUTAS-2	DUTUUTAK-2	DUTUUTAA-2	
	AC	DUTAUHAS-2	DUTAUHAK-2	DUTAUHAA-2	DUTAUTAS-2	DUTAUTAK-2	DUTAUTAA-2	
DQ series replacement type *11	DC	DUTRUHAS-2	DUTRUHAK-2	DUTRUHAA-2	DUTRUTAS-2	DUTRUTAK-2	DUTRUTAA-2	
	AC	DUTBUHAS-2	DUTBUHAK-2	DUTBUHAA-2	DUTBUTAS-2	DUTBUTAK-2	DUTBUTAA-2	
Unit standard structure type *16	DC	DUTUUNAS-2	DUTUUNAK-2	DUTUUNAA-2	DUTUUMAS-2	DUTUUMAK-2	DUTUUMAA-2	
	AC	DUTAUNAS-2	DUTAUNAK-2	DUTAUNAA-2	DUTAUMAS-2	DUTAUMAK-2	DUTAUMAA-2	
Ratings	★Frequency [Hz]	50, 60						
	★Voltage (one input) [V] AC	63.5, 110 *18						
	Element	Inverse time-lag			Independent time-lag			
	Setting range *12	★Setting value [V] AC	63.5V rated : 10 to 60 (1) 110V rated : 15 to 100 (1)					
		Time setting	n=0.5 to 50 (n=0.1)			0 to 30s (0.1s) *13		
	Output duration *14 [s]	1±0.1	0.2±0.1	0.2±0.1	1±0.1	0.2±0.1	0.2±0.1	
	Rated burden [VA]	0.8						
	Continuous withstand voltage	130% of rated value						
	Auxiliary energizing source *15	★Voltage [V]	DC 100, 110, 125, 200, 220, 250 AC 100, 110, 127, 200, 220, 250 50, 60Hz					
		Rated burden	DC 100, 110, 125V rated : 6.5W 200, 220, 250V rated : 8.5W					
AC 100, 110, 127V rated : 15VA 200, 220, 250V rated : 20VA								
Operation indicators	Display hold function *19	With	With	-	With	With	-	
	Auxiliary energizing source	DC LED: Operation x 1 AC LED: Operation x 1, Magnetic inversion: Operation x 1 LED: Operation x 1 LED: Operation x 1, Magnetic inversion: Operation x 1 LED: Operation x 1						
Contacts	Arrangement	Trip: 1NO ("a" make contact), Alarm: 1NC ("b" break contact), External output: 1NO						
	Limiting making capacity [A]	15 (R-load, 0.5s, 110V DC)						
	Continuous current carrying capacity [A]	5						
	Limiting breaking capacity [VA] DC	10 (L-load, L/R=0.04, 110V DC)						
Characteristics	Operate time	Refer to "Operate time characteristics"						
	Operate value accuracy [%]	±5						
	Holding factor [%]	5						
Mass [kg]	2							
Outline drawing	Unit standard structure type	Fig. DUT1						
	DQ series replacement type	Fig. DUT2						
Previous relay type	DQVJD1HH	DQVJD1HB	DQVJD1HA	DQVRB1HH, DQVWB2HH,G	DQVRB1HB, DQVWB2HB,D	DQVRB1HA, DQVWB2HA,N		

Notes

*11 : DQ series replacement relay having the same external terminal arrangement with DQ series relay. DQ series replacement relay with panel mounting adapter that has the same depth with DQ series relay, is also available. For details, contact Fuji.

*12 : The value in parentheses indicates the pitch.

*13 : Zero represents instantaneous operate time (70ms max.).

*14 : The output duration of 1±0.1s is used in the case of the circuit breaker tripping, and that of 0.2±0.1s is used on other occasions.

*15 : Power interruption guarantee time of AC auxiliary energizing source is 2s. However, it may exceed 2s depending on input or operating conditions.

*16 : Noise immunity per B-402 (Digital Protective Relays and Protective Equipment).

*17 : Refer to the identifications on page 8 for the tenth digit or later of the code symbol.

*18 : Relays of rated voltage of 220 V (operation setting: 50 to 200 V) can also be manufactured.

*19 : If "S" or "K" is selected for the 8th digit of the code symbol, both LED and magnetic inversion operation indicators are provided with a display hold