

Air Circuit Breakers for DC350V-800V

Frame size (A)	800	1250	1600	2000	2500	2500	3200	4000	
Type	AR208S	AR212S	AR216S	AR220S	AR325S	AR325-NDH	AR332S	AR440S	
Rated current (max.) [I_n] A	800	1250	1600	2000	2500	2500	3200	4000	
Number of poles	3	3	3	3	3	4	3	3	
Rated insulation voltage [U_i] V	1000	1000	1000	1000	1000	1000	1000	1000	
Rated operational voltage [U_e] V	DC 600	600	600	600	600	800	600	600	
Rated impulse withstand voltage [U_{imp}] kV	12	12	12	12	12	12	12	12	
Rated breaking cap, kA									
JIS C 8201-2-1 Ann.1 Ann.2	DC 800V	—	—	—	—	30/30	—	—	
IEC 60947-2	600V	40/40	40/40	40/40	40/40	—	40/40	40/40	
I_{cu}/I_{cs} ①②	500V	40/40	40/40	40/40	40/40	—	40/40	40/40	
	350V	40/40	40/40	40/40	40/40	—	40/40	40/40	
Rated short time withstand current [I_{cw}] kA	1s 40	40	40	40	40	30	40	40	
Latching current kA	65	65	65	65	85	85	85	100	
Total breaking time (s)	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	
Closing operation time									
Spring charging time (s) max.	10	10	10	10	10	10	10	10	
Close time (s) max.	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	
No. of operating cycles									
Mechanical life	with maintenance	30000	30000	30000	25000	20000	20000	15000	
	without maintenance	15000	15000	15000	12000	10000	10000	8000	
Electrical life	without maintenance DC 600V	1000	1000	1000	1000	500	500	500	
Outline dimension mm									
Draw-out type	a	354	354	354	354	460	580	460	631
	b	460	460	460	460	460	460	460	460
	c	345	345	345	345	345	345	345	375
	d	40	40	40	40	40	40	40	53
Weight kg	76	76	76	79	105	125	105	139	
Reverse connection	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	

Notes:

— : "no" or "not available".

① : AGR over-current release can not be used for DC. Please prepare DC over-current relay and connect with shunt trip device.

② : The time constant (L/R) of the circuit should be,

less than 2.0ms nearby rated current
less than 15ms for short circuit

(1) Shunt trip device is Instantaneously rated type. Continuously rated shunt trip device is not applicable.

(2) Undervoltage trip device is not applicable.

(3) Test jumper is not applicable.

For further details please contact TERASAKI.