

# 3 Ratings

Series	Standard	Standard	High fault	Standard	High fault	High fault	Standard	High fault
AMPERE RATING(A)	800	1250	1250	1600	1600	1600	2000	2000
<b>TYPE</b>	<b>AR208S</b>	<b>AR212S</b>	<b>AR212H</b>	<b>AR216S</b>	<b>AR216H</b>	<b>AR316H</b>	<b>AR220S</b>	<b>AR220H</b>
RATED CURRENT (max) [ $I_n$ ](A)	800	1250	1250	1600	1600	1600	2000	2000
① ②								
JIS <sup>⑫</sup> , IEC, EN, AS								
NEMA, ANSI								
Marine								
NEUTRAL POLE AMPERES FRAME (A)	800	1250	1250	1600	1600	1600	2000	2000
NUMBER OF POLES	3 4	3 4	3 4	3 4	3 4	3 4	3 4	3 4
RATED PRIMARY CURRENT OF OVER-CURRENT RELEASE [ $I_{CT}$ ](A)	200	400	200	400	1600	200	400	2000
400	800	400	800	400	800	400	800	2000
800	1000	800	1000	800	1000	800	1000	2000
• for general feeder circuit use		1250	1000	1250	1600	1250	1250	1600
			1250	1600		1600		
RATED CURRENT OF OVER-CURRENT RELEASE (A)	100 $\leq I_n \leq 200$	200 $\leq I_n \leq 400$	100 $\leq I_n \leq 200$	200 $\leq I_n \leq 400$	800 $\leq I_n \leq 1600$	100 $\leq I_n \leq 200$	200 $\leq I_n \leq 400$	1000 $\leq I_n \leq 2000$
• for generator protection use	200 < $I_n \leq 400$	400 < $I_n \leq 800$	200 < $I_n \leq 400$	400 < $I_n \leq 800$		200 < $I_n \leq 400$	400 < $I_n \leq 800$	
$I_n$ is generator rated current.	400 < $I_n \leq 800$	500 < $I_n \leq 1000$	400 < $I_n \leq 800$	500 < $I_n \leq 1000$		400 < $I_n \leq 800$	500 < $I_n \leq 1000$	
		630 < $I_n \leq 1250$	500 < $I_n \leq 1000$	630 < $I_n \leq 1250$		630 < $I_n \leq 1250$	630 < $I_n \leq 1250$	
			630 < $I_n \leq 1250$	800 < $I_n \leq 1600$		800 < $I_n \leq 1600$	800 < $I_n \leq 1600$	
							1000 < $I_n \leq 2000$	
AC RATED INSULATION VOLTAGE [ $U_i$ ](V. 50/60Hz)	1000	1000	1000	1000	1000	1000	1000	1000
RATED OPERATIONAL VOLTAGE [ $U_o$ ](V. 50/60Hz)	690	690	690	690	690	690	690	690
AC RATED BREAKING CAP [kA sym rms]/MAKING CAP [kA peak]								
JIS <sup>⑫</sup> , IEC, EN, AS	AC 690V	50/105 ⑤	55/121	50/105 ⑤	55/121	85/187	50/105 ⑤	55/121
[ $U_{cs} = I_{cu}$ ]	440V	65/143 ⑥	80/176	65/143 ⑥	80/176	100/220	65/143 ⑥	80/176
NEMA	AC 635V	42/96.6	42/96.6	42/96.6	42/96.6	50/115	42/96.6	42/96.6
ANSI	508V	50/115	50/115	55/127	50/115	55/127	80/184	50/115
	254V	65/149.5	65/149.5	80/184	65/149.5	80/184	100/230	65/149.5
⑦ ⑧	DC 250V	40/40	40/40	40/40	40/40	40/40	40/40	40/40
NK ⑨	AC 690V	50/115	50/115	55/128	50/115	55/128	85/201	50/115
	450V	65/153 ⑥	65/153 ⑥	80/186	65/153 ⑥	80/186	100/233	65/153 ⑥
LR, AB, ⑨	AC 690V	50/115	50/115	55/128	50/115	55/128	85/201	50/115
GL, BV	450V	65/153 ⑥	65/153 ⑥	80/186	65/153 ⑥	80/186	100/233	65/153 ⑥
REVERSE CONNECTED	⑮	⑮	⑮	⑮	⑮	⑮	⑮	⑮
RATED IMPULSE WITHSTAND VOLTAGE [ $U_{imp}$ ](kV)	12	12	12	12	12	12	12	12
RATED SHORT TIME WITHSTAND	1s	65	65	80	65	80	100	65
CURRENT [ $I_{cw}$ ](kA rms)	3s	50	50	55	50	55	75	50
LATCHING CURRENT (kA)		65	65	65	65	65	85	65
TOTAL BREAKING TIME (s)		0.03	0.03	0.03	0.03	0.03	0.03	0.03
CLOSING OPERATION TIME								
SPRING CHARGING TIME (s) max.		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
No. of operating cycles								
Mechanical life with maintenance		30000	30000	30000	30000	30000	25000	25000
without maintenance		15000	15000	15000	15000	15000	12000	15000
Electrical life without maintenance	AC460V	12000	12000	12000	12000	12000	10000	10000
	AC690V	10000	10000	10000	10000	10000	7000	7000
Draw-Out Body (kg)	⑩	45 51	45 51	46 52	46 52	46 52	56 68	46 52
Draw-Out Chassis (kg)	⑩	28 35	28 35	33 42	30 38	33 42	49 57	33 42
Total Draw-Out Weight (kg)	⑩	73 86	73 86	79 94	76 90	79 94	105 125	79 94
Fixed (kg)	⑩	53 59	53 59	54 60	54 60	54 60	80 92	54 60
OUTLINE DIMENSION (mm)								
FIXED TYPE								
	a	360 445	360 445	360 445	360 445	360 445	466 586	360 445
	b	460	460	460	460	460	460	460
	c	290	290	290	290	290	290	290
	d	75	75	75	75	75	75	75
DRAW-OUT TYPE ⑩								
	a	354 439	354 439	354 439	354 439	354 439	460 580	354 439
	b	460	460	460	460	460	460	460
	c	345	345	345	345	345	345	345
	d	40	40	40	40	40	40	40

- ①: Values in open air at 40°C (45°C for marine applications).
- ②: Values of AR208S, AR212S, AR216S for draw-out type with horizontal terminals, Values of the other ACBs for draw-out type with vertical terminals.
- ③: For 2 pole ACBs use outside poles of 3 pole ACB.
- ④: 4poles ACBs without Neutral phases protection can not apply IT earthing system.
- ⑤: Cannot apply IT earthing system, i.e., insulated from earth.
- ⑥: For 500V AC.
- ⑦: ARG OCRs can not be used for DC. Please contact TERASAKI for DC application.
- ⑧: A special version of the breaker is available to use above 250V DC. Applicable to only draw-out ACBs. Contact Terasaki for details.
- ⑨: Applicable to only 3 pole ACBs.

- ⑩: For vertical terminals or horizontal terminals.
  - ⑪: These weights are based on normal specifications with the OCR and standard accessories.
  - ⑫: Comply with JIS C 8201-2-1 Ann.1 Ann.2
  - ⑬: Values for ACBs with INST. 100/220kA for ACBs with MCR.
  - ⑭: Can apply IT system with special specification. Contact TERASAKI for the detail.
  - ⑮: Available as standard.  
When ordering ACB with reverse power trip function OCRs (AGR-22B or AGR-31B) that this function needs information of normal or reverse connection.  
※: Contact TERASAKI for the ratings.
- Note:** When the INST trip function is set to NON, the MCR function should be enabled, otherwise, the rated breaking capacity is reduced to the rated latching current.

High fault 2000	High fault 2000	Standard 2500	High fault 2500	Standard 3200	High fault 3200	Standard 4000	Standard 4000	High fault 4000	Standard 5000	Standard 6300	High fault 6300
AR320H	AR420H	AR325S	AR325H	AR332S	AR332H	AR440SB	AR440S	AR440H	AR650S	AR663S	AR663H
2000	2000	2500	2500	3200	3200	4000	4000	4000	5000	6300	6300
2000	2000	2500	2500	3200	3200	3310	3700	3700	4700	5680	5680
2000	2000	2500	2500	3200	3200	4000	4000	4000	5000	6300	6300
2000	2000	2500	2500	3200	3200	4000	4000	4000	5000	6300	6300
3   4	3	3   4	3   4	3   4	3   4	3   4	3   4	3	3   4	3   4	3   4
2000	800	2500	2500	3200	3200	4000	4000	4000	5000	6300	5000
	2000										6300

$1000 \leq I_n \leq 2000$	$400 \leq I_n \leq 800$ $1000 \leq I_n \leq 2000$	$1250 \leq I_n \leq 2500$	$1250 \leq I_n \leq 2500$	$1600 \leq I_n \leq 3200$	$1600 \leq I_n \leq 3200$	$2000 \leq I_n \leq 4000$	$2000 \leq I_n \leq 4000$	$2000 \leq I_n \leq 4000$	$2500 \leq I_n \leq 5000$	$3150 \leq I_n \leq 6300$	$2500 \leq I_n \leq 5000$ $3150 \leq I_n \leq 6300$
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1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
690	690	690	690	690	690	690	690	690	690	690	690
85/187	75/165 ⑤	65/143 ⑤	85/187	65/143 ⑤	85/187	85/187	75/165 ⑤	75/165 ⑤	85/187 ⑭	85/187 ⑤	85/187 ⑤
100/220	120/264 ⑬	85/187 ⑥	100/220	85/187 ⑥	100/220	100/220	100/220	120/264 ⑬	120/264	120/264	135/297
50/115	65/149.5	50/115	50/115	50/115	50/115	50/115	65/149.5	65/149.5	65/149.5	65/149.5	65/149.5
80/184	75/172.5	65/149.5	80/184	65/149.5	80/184	80/184	75/172.5	75/172.5	80/184	80/184	80/184
100/230	120/276	85/195.5	100/230	85/195.5	100/230	100/230	100/230	120/276	100/230	100/230	100/230
40/40	40/40	40/40	40/40	40/40	40/40	40/40	40/40	40/40	40/40	40/40	40/40
85/201	75/179	65/153	85/201	65/153	85/201	—	75/179	75/179	85/201	85/201	85/201
100/233	120/287	85/201 ⑥	100/233	85/201 ⑥	100/233	—	100/245	120/287	120/287	120/287	138/322
85/201	75/179	65/153	85/201	65/153	85/201	85/198	75/179	75/179	85/201	85/201	85/201
100/233	120/287	85/201 ⑥	100/233	85/201 ⑥	100/233	100/233	100/245	120/287	120/287	120/287	138/322
⑮	⑮	⑮	⑮	⑮	⑮	⑮	⑮	⑮	⑮	⑮	⑮
12	12	12	12	12	12	12	12	12	12	12	12
100	100	85	100	85	100	100	100	100	120	120	135
75	85	65	75	65	75	75	85	85	85	85	85
85	100	85	85	85	85	85	100	100	120	120	120
0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.05	0.05	0.05
10	10	10	10	10	10	10	10	10	10	10	10
0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.1	0.1	0.1
25000	15000	20000	20000	20000	20000	15000	15000	15000	10000	10000	10000
12000	8000	10000	10000	10000	10000	8000	8000	8000	5000	5000	5000
10000	3000	7000	7000	7000	7000	3000	3000	3000	1000	1000	1000
7000	2500	5000	5000	5000	5000	2500	2500	2500	500	500	500
56   68	71	56   68	56   68	56   68	56   68	58   71	71   92	71	125   160	140   180	140   180
49   57	76	49   57	49   57	49   57	49   57	68   87	68   84	76	75   100	80   105	80   105
105   125	147	105   125	105   125	105   125	105   125	126   158	139   176	147	200   260	220   285	220   285
80   92	—	80   92	80   92	80   92	80   92	—   —	—   —	—	—   —	—   —	—   —
466   586	—	466   586	466   586	466   586	466   586	—   —	—   —	—	—   —	—   —	—   —
460	—	460	460	460	460	—	—	—	—	—	—
290	—	290	290	290	290	—	—	—	—	—	—
75	—	75	75	75	75	—	—	—	—	—	—
460   580	631	460   580	460   580	460   580	460   580	460   580	631   801	631	799   1034	799   1034	799   1034
460	460	460	460	460	460	460	460	460	460	460	460
345	375	345	345	345	345	345	375	375	380	380	380
40	53	40	40	40	40	140	53	53	60	60	60