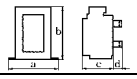
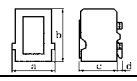
3. GENERAL
3-1. Types and Descriptions

TemPower2 is available in types shown in Tables 3 and 4.

Table 3 Standard types

Frame size (A)			800	1250	1600	2000	2500	3200	4000	4000
Type			AR208S	AR212S	AR216S	AR220S	AR325S	AR332S	AR440SB	AR440S
Max. rated current [I_n] (A) *1, *2	IEC, EN, AS JIS Marine use		800	1250	1600	2000	2500	3200	4000	4000
N-phase rated current (A)			800	1250	1600	2000	2500	3200	4000	4000
Number of poles *3, *4			3 | 4	3 | 4	3 | 4	3 | 4	3 | 4	3 | 4	3 | 4	3 | 4
Dielectric withstand voltage [U_i] (50/60Hz) *5			1000	1000	1000	1000	1000	1000	1000	1000
Operating voltage [U_e] (50/60Hz) *6			690	690	690	690	690	690	690	690
Rated breaking/making current [kA sym rms/kA peak]										
IEC ,EN, AS [$I_{cs} = I_{cu}$] JIS C 8201-2-1 Ann.1 Ann.2	AC 690V *8		50/105				65/143		85/187	75/165
	AC 440V		65/143 *10				85/187 *10		100/220	100/220
NK *7	AC 690V		50/115				65/153		*14	75/179
	AC 450V		65/153 *10				85/201 *10		*14	100/245
For DC	DC 600V *9 DC 250V		40/40							
Rated short-time current [I_{cw}] [kA rms] (1 sec.)			65				85		100	100
Rated latching current (kA)			65				85		85	100
Endurance in number of ON-OFF cycles *11	Mechanical	With maintenance	30000	30000	30000	25000	20000	20000	15000	15000
		Without maintenance	15000	15000	15000	12000	10000	10000	8000	8000
	Electrical	Without maintenance AC 460V	12000	12000	12000	10000	7000	7000	3000	3000
		Without maintenance AC 690V	10000	10000	10000	7000	5000	5000	2500	2500
Installation			Draw-out or fixed type							
Mass (kg) for draw-out type			73 | 86	73 | 86	76 | 90	79 | 94	105 | 125	105 | 125	126 | 158	139 | 176
External dimensions (mm)										
Fixed type *12 	a		360 | 445	360 | 445	360 | 445	360 | 445	466 | 586	466 | 586	- | -	- | -
	b		460						-	-
	c		290						-	-
	d		75						-	-
Draw-out type *13 	a		354 | 439	354 | 439	354 | 439	354 | 439	460 | 580	460 | 580	460 | 580	631 | 801
	b		460						460	460
	c		345						345	375
	d		40						140	53
Connection method	Line side		Vertical, horizontal or front terminals						Vertical terminals	Vertical terminals
	Load side		Vertical, horizontal or front terminals						Vertical terminals	Vertical terminals
Control circuit terminal type			screw terminals							
Spring charging method			Manual or motor charging							
Overcurrent release (OCR)			No OCR, or L-characteristic for general feeder protection							
Operation indication			Group indication							
Tripping device	Tripping coil (TC)		Standard equipment for OCR-equipped ACB							
	Shunt trip device (SHT)		Optional							
	undervoltage trip device (UVT)		Optional							
Auxiliary switches	Number of switches		4C (standard), 7C or 10C; available for general feeder or microload							
	Terminal type		screw terminals							
Rated voltage	Operation power		AC100 - 120V, AC200 - 240V, DC100 - 125V, DC200 - 250V, DC24V or DC48V							

*1: Ambient temperature: 40°C (45°C for marine used))
*2: With horizontal terminals for AR208S - 216S and vertical terminals for AR220S - 440S
*3: For 2-pole applications, use two poles at both ends.
*4: 4-pole ACBs are not applicable to power distribution IT systems unless N-phase protection is provided.
*5: Varies depending on applicable standards. AC1000V applies to ACBs conforming to IEC60947-2 and JIS C8201-2.
*6: Varies depending on applicable standards. AC690V applies to ACBs conforming to IEC60947-2 and JIS C8201-2.
*7: Applicable to 3-pole ACBs with INST or MCR.
*8: For applicability to power distribution IT systems, consult us
*9: Applicable under 3-pole serial connection scheme.
*10: For AC500V
*11: Expected service life based on endurance test. The service life of ACB depends on the working and environmental conditions. Refer to chapter 6 “Maintenance, Inspection and Parts Replacement”.
*12: For both vertical and horizontal terminals
*13: This manual covers draw-out type ACBs.
*14: In applying or going to apply.