

Product Specification

● Specification

Type			AE630-SW	AE1000-SW	AE1250-SW	AE1600-SW	
Frame size	(A)		630	1000	1250	1600	
Rated insulation voltage (Ui)	(50/60Hz)(AC.V)		1000				
Rated operational voltage (Ue)	(50/60Hz)(AC.V)		690				
Rated impulse withstand voltage (Uimp)	(kV)		12				
Utilization category			B				
Pollution degree			3				
EMC environment condition (environment A or B) (Note 14)			A				
Number of poles			3, 4				
Rated current In (CT rating)	(A)		630 (Note 5)	1000	1250	1600	
Current setting Ir (A) (40°C)	[WS] [WB] General use (Current rating adjustable 0.5 to 1.0 × In 0.05 step)		315-346.5-378-409.5- 441-472.5-504-535.5- 567-598.5-630 (Note 5)	500-550-600-650- 700-750-800-850- 900-950-1000	625-687.5-750-812.5- 875-937.5-1000-1062.5- 1125-1187.5-1250	800-880-960-1040- 1120-1200-1280-1360- 1440-1520-1600	
	[WM] Generator protection use (Current rating fixed) (Note 10)		160 ≤ Ir ≤ 630	400 ≤ Ir ≤ 1000	800 ≤ Ir ≤ 1250	1000 ≤ Ir ≤ 1600	
Rated current of neutral pole	(A)		630	1000	1250	1600	
IEC60947-2 EN60947-2 JIS C 8201-2-1	Ultimate breaking capacity Icu (kA rms)	690V AC	65				
		600V AC	65				
		240-500V AC	65				
		with MCR	690V AC	65			
			600V AC	65			
			240-500V AC	65			
	Bare + External relay	690V AC	25 (Note 1)				
		500V AC	25 (Note 1)				
	Rated service breaking capacity Ics (kA rms) %Icu		100%				
	Rated making capacity Icm (kA peak)	690V AC	143				
		600V AC	143				
		240-500V AC	143				
		with MCR	690V AC	143			
			600V AC	143			
240-500V AC			143				
Bare or Bare + External relay	690V AC	52.5					
	500V AC	52.5					
Rated short time withstand current Icw (kA rms)	1s	65					
	2s	60					
	3s	50					
Maximum total breaking time (ms)		40 (Note 6)					
Maximum closing time (ms)		80					
Number of operating cycles (Note 2) (Note 15)	With rated current	690V AC In (Note 16)	5,000				
		690V AC In (Note 17)	10,000				
	Without rated current (Note 17)		25,000 (Note 4)				
Connecting terminal (Note 11)	Horizontal terminal		○				
	Vertical terminal		○				
	Front terminal		○				
Outline dimension (mm) H×W×D	Fixed type	3-pole	410×340×290				
		4-pole	410×425×290				
	Drawout type	3-pole	430×300×375				
		4-pole	430×385×375				
Weight (kg) (without Accessory) (Note 12)	Fixed type	3-pole	35	35	35	35	
		4-pole	42	42	43	43	
	Drawout type (including cradle)	3-pole	56	56	56	56	
		4-pole	70	70	70	70	
	Cradle only	3-pole	24				
		4-pole	28				
Marking:CE/UKCA		Self-declaration					
CCC recognition (☆:Certified)		☆					
Marine approval (☆:Certified)		☆(NK, LR, DNV(DNV GL), BV, ABS, CCS)					
Automatic tripping device		Electronic (effective value detection)					

(Note 1) This is the Icu value when the bare main body and the external relay are combined.

(Note 2) The number of operating cycles without rated current also includes the number of operating cycles with rated current.

(Note 3) AE2000-SWA, AE4000-SWA and AE4000-SW-AE6300-SW apply for only vertical terminal of connecting terminal.

(Note 4) This value is max. operating cycle for just ACB body without any accessories.

(The max. operating cycles for the accessories like AX, MD,CC, SHT and UVT are half of this value.)

(Note 5) Products with low rating types are available. For AE630-SW low rating types (250A, 315A, 500A), DP3 is not available.

AE 630-SW 3 kinds of products with low rating types are available.

AE 2000-SW 2 kinds of products with low rating types are available.

· 250-275-300-325-350-375-400-425-450-475-500(CT 500A)
· 157.5-173.3-189-204.8-220.5-236.3-252-267.8-283.5-299.3-315(CT 315A)
· 125-137.5-150-162.5-175-187.5-200-212.5-225-237.5-250(CT 250A)

· 800-880-960-1040-1120-1200-1280-1360-1440-1520-1600(CT 1600A)
· 625-687.5-750-812.5-875-937.5-1000-1062.5-1125-1187.5-1250(CT 1250A)

	AE2000-SWA	AE2000-SW	AE2500-SW	AE3200-SW	AE4000-SWA	AE4000-SW	AE5000-SW	AE6300-SW	
	2000	2000	2500	3200	4000	4000	5000	6300	
			1000				1000		
			690				690		
			12				12		
			B				B		
			3				3		
			A				A		
			3, 4				3, 4 (HN, FN) (Note 7)		
	2000	2000 (Note 5)	2500	3200	4000	4000	5000	6300	
	1000-1100-1200-1300-1400-1500-1600-1700-1800-1900-2000	1000-1100-1200-1300-1400-1500-1600-1700-1800-1900-2000 (Note 5)	1250-1375-1500-1625-1750-1875-2000-2125-2250-2375-2500	1600-1760-1920-2080-2240-2400-2560-2720-2880-3040-3200	2000-2200-2400-2600-2800-3000-3200-3400-3600-3800-4000	2000-2200-2400-2600-2800-3000-3200-3400-3600-3800-4000	2500-2750-3000-3250-3500-3750-4000-4250-4500-4750-5000	3150-3465-3780-4095-4410-4725-5040-5355-5670-5985-6300	
	1250 ≤ Ir ≤ 2000	800 ≤ Ir ≤ 2000	1600 ≤ Ir ≤ 2500	2000 ≤ Ir ≤ 3200	2500 ≤ Ir ≤ 4000	2500 ≤ Ir ≤ 4000	3150 ≤ Ir ≤ 5000	4000 ≤ Ir ≤ 6300	
	2000	2000	2500	3200	4000	2000 (4000) (Note 8)	2500 (5000) (Note 8)	3150 (6300) (Note 8)	
			75				85		
			75				85		
			85				130 (Note 9)		
			75				85		
			75				85		
			75				100		
			45 (Note 1)				65 (Note 1)		
			45 (Note 1)				65 (Note 1)		
			100%				100%		
			165				187		
			165				187		
			187				286		
			165				187		
			165				187		
			165				220		
			94.5				143		
			94.5				143		
			75				100 (Note 13)		
			75				85		
			65				85		
			40 (Note 6)				50 (Note 6)		
			80				80		
	1,500	1,500		1,000	500		1,000		
	8,000	8,000		8,000	5,000		-		
			20,000 (Note 4)				10,000 (3P) / 5,000 (4P)		
	-		○		-		-		
	○ (Note 3)		○		○ (Note 3)		○ (Note 3)		
	-		○		-		-		
			410×475×290				414×874×290		
			410×605×290				414×1004(1134)×290 (Note 8)		
			430×435×375		430×439×375		480×889×375		
			430×565×375		430×569×375		480×1019(1149)×375 (Note 8)		
	44	51	52	54	73	141	141	148	
	54	64	64	67	92	159 (179)	159 (179)	166 (188)	
	62	81	81	85	101	194	194	208	
	75	101	101	106	127	223 (247)	223 (247)	238 (269)	
	27		33	34	46	98	98	107	
	32		40	42	58	113 (127)	113 (127)	121 (138)	
			Self-declaration				Self-declaration		
			☆				☆		
			☆(NK, LR, DNV(DNV GL), BV, ABS, CCS)				☆(NK, LR, DNV(DNV GL), BV, ABS)		
			Electronic (effective value detection)				Electronic (effective value detection)		

(Note 6) This value means the instantaneous breaking time at shortcircuit interruption. As for accessories (SHT, UVT), refer to page 13 and 14.

(Note 7) 4(HN) means the neutral poles current capacity is 50% of the rated current, for 4 poles. 4(FN) means the neutral poles current capacity is 100% of the rated current, for 4 poles.

(Note 8) () shows the value for 4P FN type.

(Note 9) Marine approval value is 138kA.

(Note 10) For WM relay, the current setting Ir can be set by 1A except AE630-SW low rating types "CT315A" and "CT250A". For AE630-SW with "CT315A" and "CT250A", it can be set by 0.1A.

(Note 11) As for selectable connection, please refer to page 13.

(Note 12) These weights include an electronic relay, but don't include other accessories.

(Note 13) For 600 ~ 690V AC, low at 1s is 85kA.

(Note 14) This product is designed on the basis of environment A. When used under environment B, it might cause electromagnetic interference, and the user would be asked to do countermeasures to reduce these interference.

(Note 15) The number of operating cycles is the guideline for the life of the open/close operation in the standard operation environment. These are not guaranteed values.

(Note 16) This is the guideline for the life of the open/close operation when periodic inspection and maintenance are performed and consumable parts are not replaced.

(Note 17) This is the guideline for the life of the open/close operation when periodic inspection and maintenance are performed and consumable parts are replaced.

(Remark) All models conform the isolating function according to IEC 60947-2. Reverse connection is possible.