

Air circuit breakers

Metasol ACB Series



Type		
Ampere frame	(AF)	
Rated current(A)	(In max)	at 40°C
Setting current (A) *	Control trip relay (... × In max)	
Rated current of neutral pole (A)		
Rated insulation voltage (V)	(Ui)	
Rated operating voltage (V)	(Ue)	
Rated impulse withstand voltage (kV)	(Uimp)	
Frequency (Hz)		
Number of poles (P)		
Rated breaking capacity (kA sym)	220V/230V/380V/415V	
IEC 60947-2	(Icu)	460V/480V/500V
AC 50/60Hz	550V/600V/690V	
Rated service breaking capacity (kA)	(Ics)	... % × Icu
Rated making capacity (kA peak)	220V/230V/380V/415V	
IEC 60947-2	(Icm)	460V/480V/500V
AC 50/60Hz	550V/600V/690V	
Rated short-time withstand current (kA)	(Icw)	1 sec
		2 sec
		3 sec
Operating time (ms)	Maximum total breaking time	
	Maximum closing time	
Life cycle (time)	Mechanical	
	Electrical	
Connections **	Draw-out / Fixed	Horizontal connection
		Vertical connection
		Front connection
		Mixed connection
Weight (kg)	Draw-out type	Main body
(3P/4P)		(With cradle)
		Cradle only
	Fixed type	Motor charging type
		Manual charging type
External dimensions (mm)		
(H×W×D)		
		3P
		4P
		3P
		4P
Trip relay		
Certificate & Approval		
Marine classification		

Metasol					
AN-06D	AN-08D	AN-10D	AN-13D	AN-16D	AS-20D
630	800	1000	1250	1600	2000
200	400				
400	630	1000	1250	1600	2000
630	800				
(0.4 ~ 1.0) × In max					
400	400				
630	630	1000	1250	1600	2000
	800				
1000					
690					
12					
50/60					
3, 4					
					70
					70
					65
					100%
					100%
					143
					143
					105
					143
					50
					65
					42
					55
					36
					50
40					
80					
20,000					
5,000					
					-
					●
					-
					-
					63/74
					70/85
					61/72
					68/83
					29/32
					33/40
					34/44
					38/47
					32/42
					36/45
430 × 334 × 375					
430 × 419 × 375					
300 × 300 × 295					
300 × 385 × 295					
N, A, P type					
KS / KEMA / KERI / GOST					
LR, ABS, DNV, KR, BV, GL, RINA, NK					

* Refer to trip relay specification. ** ●: Standard, ○: Option

※ Life time means not guarantee, but limitation.

Quality guarantee: On/Off frequency on the basis of IEC60947-2 within the term of guarantee



Metasol			
AS-20E	AS-25E	AS-32E	AS-40E
2000	2500	3200	4000
630, 800			
1000, 1250	2500	3200	4000
1600, 2000			
(0.4 ~ 1.0) × In max			
630, 800			
1000, 1250	2500	3200	4000
1600, 2000			
1,000			
690			
12			
50/60			
3, 4			
85			
85			
85			
100%			
187			
187			
187			
85			
75			
65			
40			
80			
15,000			
5,000			
●			○
○			●
○			-
○			-
87/103			104/147
85/101			102/145
44/50			58/70
44/55			63/100
42/53			61/98
430×412×375			
430×527×375			
300×378×295			
300×493×295			
N, A, P type			
KS / KEMA / KERI / GOST			
LR, ABS, DNV, KR, BV, GL, RINA, NK			

Metasol	
AS-50F	
4000	5000
4000	5000
(0.4 ~ 1.0) × In max	
4000	5000
1000	
690	
12	
50/60	
3, 4	
100	
100	
85	
100%	
220	
220	
187	
85	
75	
65	
40	
80	
10,000	
2,000	
○	●
-	-
-	-
145/173	
143/171	
78/90	
76/94	
74/92	
460×629×375	
460×799×375	
300×597×295	
300×767×295	
N, A, P type	
KS / KEMA / KERI / GOST	
LR, ABS, DNV, KR, BV, GL, RINA, NK	

Metasol		
AS-40G	AS-50G	AS-63G
4000	5000	6300
4000	5000	6300
(0.4 ~ 1.0) × In max		
4000	5000	6300
1,000		
690		
12		
50/60		
3, 4		
120		
120		
100		
100%		
264		
264		
220		
100		
85		
75		
40		
80		
10,000		
2,000		
○	●	
-	-	
-	-	
181/223		186/230
179/221		184/228
97/117		102/124
98/123		103/130
96/121		101/128
460×785×375		
460×1015×375		
300×751×295		
300×981×295		
N, A, P type		
KS / KEMA / KERI / GOST		
LR, ABS, DNV, KR, BV, GL, RINA, NK		