


Ratings

Metasol

Circuit Breaker



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 operational voltage (V)	(Ue)	
Rated impulse withstand voltage (kV) (Uimp)		
Frequency (Hz)		
Number of poles (P)		
Rated breaking capacity (kA sym)		220V/230V/380V/415V
AC 50/60Hz	(Icu)	IEC 60947-2
		KS C 4620
		460V/480V/500V
		550V/600V/690V
Rated service breaking capacity (kA) (Ics)		... %×Icu
Rated making capacity (kA peak)		220V/230V/380V/415V
AC 50/60Hz	(Icm)	IEC 60947-2
		KS C 4620
		460V/480V/500V
		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) (3P/4P)	Draw-out type	Main body
		(With cradle)
		Cradle only
	Fixed type	
		Motor charging type
		Manual charging type
External dimensions (mm) (H×W×D)		Draw-out type
		3P
		4P
		Fixed type
		3P
		4P
Trip relay		
Certificate & Approval		
Marine classification		

Metasol				
AN-06D	AN-08D	AN-10D	AN-13D	AN-16D
630	800	1000	1250	1600
200	400	1000	1250	1600
400	630			
630	800			
0.4 ~ 1.0				
400	400	1000	1250	1600
630	630			
	800			
1,000				
690				
12				
50/60				
3/4				
65				
65				
50				
100%				
143				
143				
105				
50				
42				
36				
40				
80				
20,000				
5,000				
●				
○				
○				
○				
63/74				
61/72				
29/32				
34/44				
32/42				
430 × 334 × 375				
430 × 419 × 375				
300 × 300 × 295				
300 × 385 × 295				
N, A, P type				
KS / KEMA / KERI / GOST				
-				

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

Note) 1. Life time means not guarantee, but limitation.

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

2. The use of AN-D, AS-D and AS-F in IT systems is limited to 500 V network voltage.

3. AS-20D, AS-40E types are equipped with vertical-only terminals.

Metasol



Metasol					
AS-06D	AS-08D	AS-10D	AS-13D	AS-16D	AS-20D
630	800	1000	1250	1600	2000
200	400				
400	630	1000	1250	1600	2000
630	800				
0.4 ~ 1.0					
630	800	1000	1250	1600	2000
1,000					
690					
12					
50/60					
3/4					
70					
70					
65					
100%					
154					
154					
143					
65					
50					
42					
40					
80					
20,000					
5,000					
●			-		
○			●		
○			-		
○			-		
63/74			70/85		
61/72			63/83		
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					

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			
630, 800	2500	3200	4000
1000, 1250			
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-40F	AS-50F
4000	5000
4000	5000
0.4 ~ 1.0	
4000	5000
1,000	
690	
12	
50/60	
3/4	
100	
100	
85	
100%	
220	
220	
187	
85	
75	
65	
40	
80	
10,000	
2,000	
○	
●	
-	
-	
107/139	
102/145	
65/85	
61/81	
60/80	
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		
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		

※ Derating of the rated current is required according to the ambient temperature around the breaker in a panel if it is higher than the reference value. (See pages 123 to 126)

※ It is possible to connect power and load side reversely, but please use it for normal connection for maintenance and safety.