Ratings

Metasol

Circuit Breaker



				Metasol				
Type				AN-06D	AN-08D	AN-10D	AN-13D	AN-16D
Ampere frame	(AF)			630	800	1000	1250	1600
Rated current (A)	(In max)		at 40℃	200 400 630	400 630 800	1000	1250	1600
Setting current (A)*	Control trip relay (... × In max)			0.4 ~ 1.0				
Rated current of neutral pole (A)				400 630	400 630 800	1000	1250	1600
Rated insulation voltage (V)	(Ui)			1,000				
Rated operational voltage (V)	(Ue)			690				
Rated impulse withstand voltage (kV)	(Uimp)			12				
Frequency (Hz)				50/60				
Number of poles (P)				3/4				
Rated breaking capacity (kA sym) AC 50/60Hz	(Icu)	IEC 60947-2 KS C 4620	220V/230V/380V/415V	65				
			460V/480V/500V	65				
			550V/600V/690V	50				
Rated service breaking capacity (kA)	(Ics)		... %×Icu	100%				
Rated making capacity (kA peak) AC 50/60Hz	(Icm)	IEC 60947-2 KS C 4620	220V/230V/380V/415V	143				
			460V/480V/500V	143				
			550V/600V/690V	105				
Rated short-time withstand current (kA)	(Icw)		1 sec	50				
			2 sec	42				
			3 sec	36				
Operating time (ms)			Maximum total breaking time	40				
			Maximum closing time	80				
Life cycle (time)		Mechanical		20,000				
		Electrical		5,000				
Connections**	Draw-out / Fixed		Horizontal connection	●				
			Vertical connection	○				
			Front connection	○				
			Mixed connection	○				
Weight (kg) (3P/4P)	Draw-out type	Main body (With cradle)	Motor charging type	63/74				
			Manual charging type	61/72				
		Cradle only		29/32				
	Fixed type		Motor charging type	34/44				
			Manual charging type	32/42				
External dimensions (mm) (H×W×D) 		Draw-out type	3P	430×334×375				
			4P	430×419×375				
		Fixed type	3P	300×300×295				
			4P	300×385×295				
Trip relay				N, A, P type				
Certificate & Approval				KS / KEMA / KERI / GOST				
Marine clasiflcation				-				

* 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						Metasol				Metasol		Metasol		
AS-06D	AS-08D	AS-10D	AS-13D	AS-16D	AS-20D	AS-20E	AS-25E	AS-32E	AS-40E	AS-40F	AS-50F	AS-40G	AS-50G	AS-63G
630	800	1000	1250	1600	2000	2000	2500	3200	4000	4000	5000	4000	5000	6300
200 400 630	400 630 800	1000	1250	1600	2000	400, 630, 800, 1000, 1250, 1600, 2000	2500	3200	4000	4000	5000	4000	5000	6300
0.4 ~ 1.0						0.4 ~ 1.0				0.4 ~ 1.0		0.4 ~ 1.0		
630	800	1000	1250	1600	2000	630, 800, 1000, 1250, 1600, 2000	2500	3200	4000	4000	5000	4000	5000	6300
1,000						1,000				1,000		1,000		
690						690				690		690		
12						12				12		12		
50/60						50/60				50/60		50/60		
3/4						3/4				3/4		3/4		
70						85				100		120		
70						85				100		120		
65						85				85		100		
100%						100%				100%		100%		
154						187				220		264		
154						187				220		264		
143						187				187		220		
65						85				85		100		
50						75				75		85		
42						65				65		75		
40						40				40		40		
80						80				80		80		
20,000						15,000				10,000		10,000		
5,000						5,000				2,000		2,000		
●					-	●			-	○		○		
○					●	○			●	●		●		
○					-	○			-	-		-		
○					-	○			-	-		-		
63/74					70/85	87/103			104/147	107/139		181/223		186/230
61/72					63/83	85/101			102/145	102/145		179/221		184/228
29/32					33/40	44/50			58/70	65/85		97/117		102/124
34/44					38/47	44/55			63/100	61/81		98/123		103/130
32/42					36/45	42/53			61/98	60/80		96/121		101/128
430×334×375						430×412×375				460×629×375		460×785×375		
430×419×375						430×527×375				460×799×375		460×1015×375		
300×300×295						300×378×295				300×597×295		300×751×295		
300×385×295						300×493×295				300×767×295		300×981×295		
N, A, P type						N, A, P type				N, A, P type		N, A, P type		
KS / KEMA / KERI / GOST						KS / KEMA / KERI / GOST				KS / KEMA / KERI / GOST				
LR, ABS, DNV, KR, BV, GL, RINA, NK						LR, ABS, DNV, KR, BV, GL, RINA, NK				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.