

Top 100
Global
Innovator
for 10 years

Susol *Super Solution*

Metasol *Meta Solution*

Air Circuit Breakers



LS *ELECTRIC*

Ordering

Metasol

ACB & Accessories

AS	10	D	3	10	J
Type	Ampere * Frame	Frame sizes & phase array	No. of pole	Rated current ** (CT Spec.)	Connections
Circuit Breakers	06 630AF 08 800AF 10 1000AF 13 1250AF 16 1600AF 20 2000AF	D 630~2000AF 3P/4P Standard RST(N) W 630~2000AF 4P Reverse phase type (N)RST	3 3P(D) 4 4P(D, W)	00 Without OCR & CT 02 200A 04 400A 06 630A 08 800A 10 1000A 13 1250A 16 1600A 20 2000A	Draw-out type *** J Manual connection A Automatic connection Fixed type H Horizontal type V Vertical type Mixed type M Horizontal Vertical N Mixed type Vertical Horizontal P Front type
Switch Disconnector	20 2000AF 25 2500AF 32 3200AF 40 4000AF	E 2000~4000AF 3P/4P Standard RST(N) X 2000~4000AF 4P Reverse phase type (N)RST	3 3P(E) 4 4P(E, X)	02 200A 04 400A 06 630A 08 800A 10 1000A 13 1250A 16 1600A 20 2000A 25 2500A 32 3200A 40 4000A	
	40 4000AF 50 5000AF	F 4000/5000AF 3P/4P Standard RST(N) Y 4000/5000AF 4P Reverse phase type (N)RST	3 3P(F) 4 4P(F, Y)	40 4000A 50 5000A	
	40 4000AF 50 5000AF 63 6300AF	G 4000/5000/6300AF 3P/4P Standard RST(N) Z 4000/5000/6300AF 4P Reverse phase type (N)RST	3 3P(G) 4 4P(G, Z)	40 4000A 50 5000A 63 6300A	

* AN type: 630~1600AF

AS type: 630~2000AF, 2000~4000AF, 4000~5000AF, 4000~6300AF

** AN type offers rated current of 1600A when choosing 630~1600AF

*** Please, refer to cradle installation instruction for draw-in/out types.
(p.119~124)

Note) 1. AS-20D, AS-40E types are equipped with vertical-only terminals.

In case of F/Y/G/Z Frame size, front type & mixed type connection is not available.

2. In case of DN/DS type Switch Disconnector, the rated current (CT Spec.) will be applied 00 (without OCR & CT)

3. For the busbar installation method of draw-out type, please refer to the connection type of cradle which describes in page 20

4. Front connection terminals should be purchased separately (see Page 68.)

AT	20	D	3	00	U
Earthing product	20 2000AF 40 4000AF	D RST(N) W Reverse NRST E RST(N) X Reverse NRST	3 3P 4 4P		U Line earthed system L Load earthed system

* Rated short-circuit withstand current of the protective circuit in earthing product : 60kA/1s

* Please contact us to get more detail information of earthing product.

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ACB & Accessories

AS	10	D	3	10	J
Type	Ampere * Frame	Frame sizes & phase array	No. of pole	Rated current ** (CT Spec.)	Connections
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* AN type: 630~1600AF

AS type: 630~2000AF, 2000~4000AF, 4000~5000AF, 4000~6300AF

** AN type offers rated current of 1600A when choosing 630~1600AF

*** Please, refer to cradle installation instruction for draw-in/out types.
(p.119~124)

Note) 1. AS-20D, AS-40E types are equipped with vertical-only terminals.

In case of F/Y/G/Z Frame size, front type & mixed type connection is not available.

2. In case of DN/DS type Switch Disconnector, the rated current (CT Spec.) will be applied 00 (without OCR & CT)

3. For the busbar installation method of draw-out type, please refer to the connection type of cradle which describes in page 20

4. Front connection terminals should be purchased separately (see Page 68.)

AT	20	D	3	00	U
Earthing product	20 2000AF 40 4000AF	D RST(N) W Reverse NRST E RST(N) X Reverse NRST	3 3P 4 4P		U Line earthed system L Load earthed system

* Rated short-circuit withstand current of the protective circuit in earthing product : 60kA/1s


* Please contact us to get more detail information of earthing product.

Ratings

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Switch-Disconnecter



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 making capacity (kA peak)		(Icm)	IEC 60947-2 AC ~ 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	Motor charging type
		(With cradle)	Manual charging type
		Cradle only	
		Fixed type	
			Manual charging type
External dimensions (mm) (H×W×D)		Draw-out type	3P
			4P
		Fixed type	3P
			4P

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DH-06D	DH-08D	DH-10D	DH-13D	DH-16D	DH-20D
630	800	1000	1250	1600	2000
200, 400, 630	200, 400, 630, 800	630, 800, 1000	630, 800, 1000, 1250	800, 1000, 1250, 1600	1000, 1250, 1600, 2000
0.4 ~ 1.0					
630	800	1000	1250	1600	2000
1,000					
690					
12					
50/60					
3/4					
143					
65					
60					
50					
Less than 25ms under Icw/Less than 75ms over Icw					
80ms under					
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					

* 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 IEC60947-3 within the term of guarantee

2. In case of Marine ACB, please contact us.

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



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DH-06E	DH-08E	DH-10E	DH-13E	DH-16E	DH-20E	DH-25E	DH-32E	DH-40E
630	800	1000	1250	1600	2000	2500	3200	4000
200, 400, 630	400, 630 800, (800)	630, 800, 1000	630, 800, 1000, 1250	800, 1000, 1250, 1600, (1600)	1000, 1250, 1600, 2000	1250, 1600, 2000, 2500	1600, 2000, 2500, 3200	2000, 2500, 3200, 4000, (3200)
0.4 ~ 1.0								
630	800	1000	1250	1600	2000	2500	3200	4000
1,000								
690								
12								
50/60								
3/4								
187								
85								
75								
65								
Less than 25ms under Icw/Less than 75ms over Icw								
80ms under								
15,000								
5,000								
●								-
○								●
○								-
○								-
87/103								107/139
85/101								102/145
44/55								65/85
44/55								61/81
42/53								60/80
430×412×375								
430×527×375								
300×378×295								
300×493×295								

※ 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)

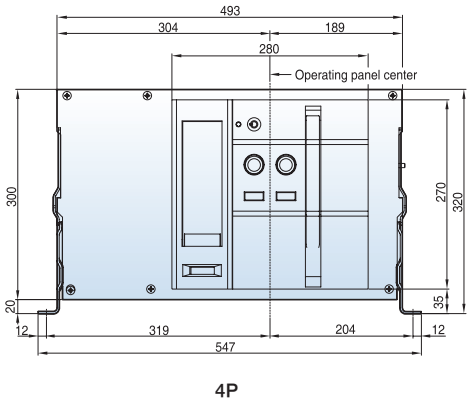
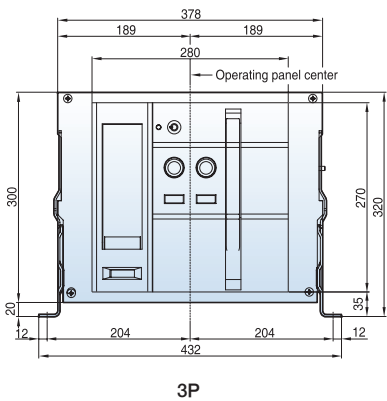
Dimensions

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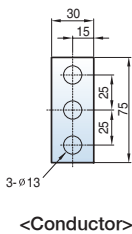
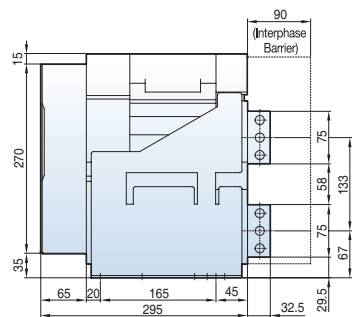
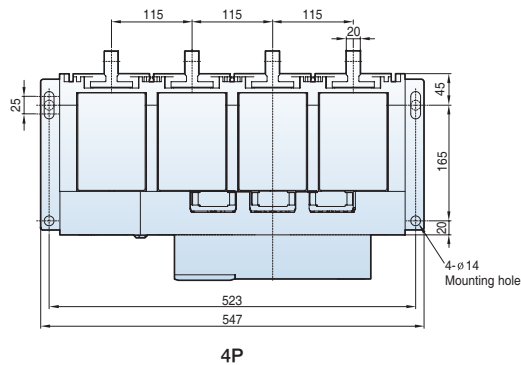
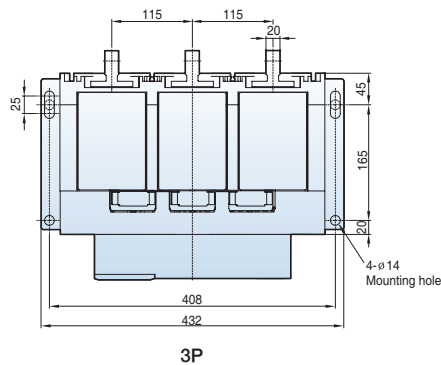
Fixed type 4000AF (2000~3200A: AH/AS-20~32E)

Dimensions: [mm]

Front view



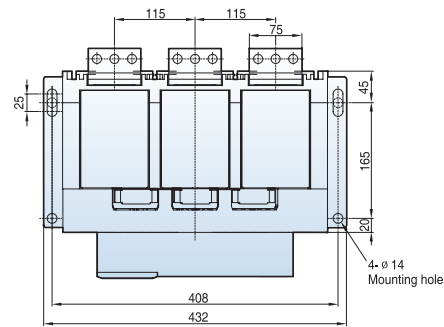
Vertical type



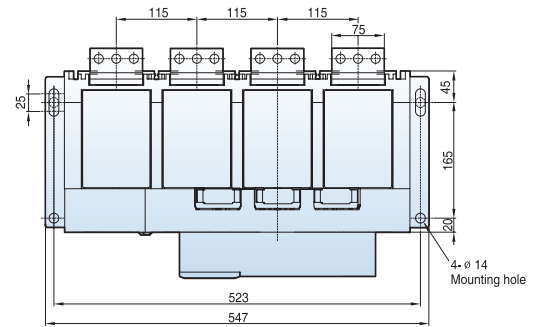
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Dimensions: [mm]

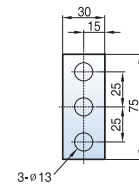
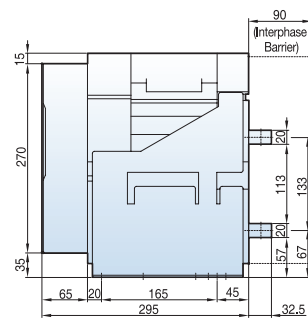
Horizontal type



3P

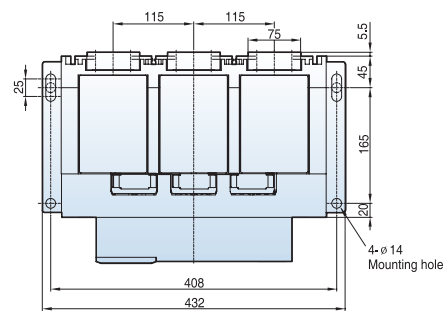


4P

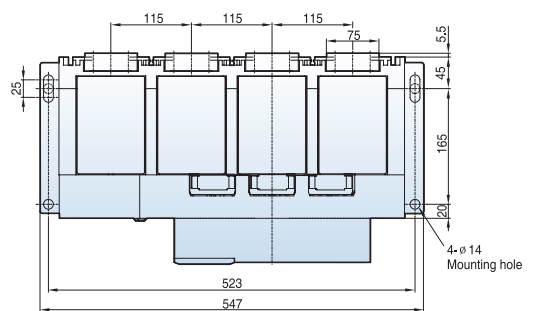


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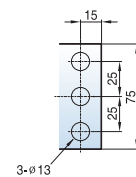
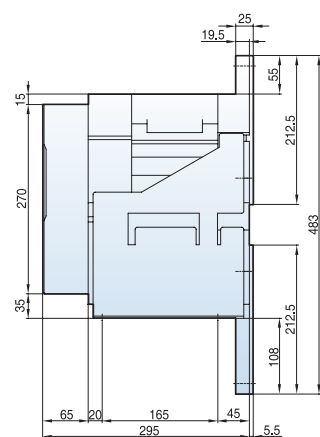
Front connection type



3P



4P



<Conductor>