



100		125			250			
N-Type		S-Type	H-Type	L-Type	N-Type	S-Type	H-Type	L-Type
ABN102c	ABN102e	ABS102c	ABH102c	ABL102c	ABN202c	ABS202c	ABH202c	ABL202c
ABN103c	ABN103e	ABS103c	ABH103c	ABL103c	ABN203c	ABS203c	ABH203c	ABL203c
ABN104c	ABN104e	ABS104c	ABH104c	ABL104c	ABN204c	ABS204c	ABH204c	ABL204c
15, 20, 30, 40, 50, 60, 75, 100		15, 20, 30, 40, 50, 60, 75, 100, 125			100, 125, 150, 175, 200, 225, 250			
690		690	690	690	690	690	690	690
500		500	500	500	500	500	500	500
1000		1000	1000	1000	1000	1000	1000	1000
8		8	8	8	8	8	8	8
5	7.5 (5)	8	10	10 (10)	8	8	10	10 (10)
10	14 (10)	25	35	35 (35)	18	26	35	35 (35)
18	31 (18)	37	50	60 (50)	26	37	50	60 (50)
22	31 (22)	42	50	60 (50)	30	42	50	60 (50)
35	50 (35)	85	100	100 (100)	65	85	100	100 (100)
10	15 (10)	20	30	30 (30)	10	20	30	30 (30)
10	15 (10)	20	30	30 (30)	10	20	30	30 (30)
100	()	100	100	()	100	100	100	()
A	A	A	A	A	A	A	A	A
25,000	25,000	25,000	25,000	25,000	25,000	25,000	25,000	25,000
10,000	10,000	10,000	10,000	10,000	5,000	5,000	5,000	5,000
fixed	fixed	fixed	fixed	fixed	fixed	fixed	fixed	fixed
-	-	-	-	-	-	-	-	-
75 × 130 × 60		90 × 155 × 60			105 × 165 × 60			
0.5	0.5	0.7	0.7	0.7	1.1	1.1	1.1	1.1
0.7	0.7	1	1	1	1.2	1.2	1.2	1.2
0.9	0.9	1.2	1.2	1.2	1.6	1.6	1.6	1.6

Calibrated for 40°C	Amb. Temp.	-5°C	0°C	10°C	20°C	25°C	30°C	35°C	40°C	45°C	50°C
	In=15 to 30	111.9%	111.3%	110.0%	108.0%	106.6%	104.9%	102.7%	100.0%	96.8%	93.3%
	In=40 to 100	110.2%	109.8%	108.7%	107.0%	105.8%	104.3%	102.4%	100.0%	97.2%	94.0%
	In=100 to 225	114.3%	113.2%	110.6%	107.5%	105.8%	104.0%	102.0%	100.0%	97.9%	95.6%
	In=250 to 800	110.0%	109.0%	107.0%	105.0%	104.0%	103.0%	101.5%	100.0%	98.5%	97.0%

Molded Case Circuit Breakers

Metasol 400AF to 1200AF Series

Frame Size (AF)		400			
Type		N-Type	S-Type	H-Type	L-Type
Type and Pole	2 pole	ABN402c	ABS402c	ABH402c	ABL402c
	3 pole	ABN403c	ABS403c	ABH403c	ABL403c
	4 pole	ABN404c	ABS404c	ABH404c	ABL404c
Rated current, In	(A)	250, 300, 350, 400			
Rated operational voltage, Ue	AC(V)	690	690	690	690
	DC(V)	500	500	500	500
Rated insulation voltage, Ui	(V)	1000	1000	1000	1000
Rated impulse withstand voltage, Uimp	(kV)	8	8	8	8
Rated short-circuit breaking capacity(Icu) kA (Sym), KSC8321, IEC 60947-2					
AC	690V	5	8	10	14
	480/500V	18	35	50	65
	415/460V	37	50	65	85
	380V	42	65	70	100
	220/250V	50	75	85	125
DC	500V(3P)	10	20	40	40
	250V(2P)	10	20	40	40
Service breaking capacity(%Icu), Ics		100	100	100	75
Category of use		A	A	A	A
Endurance (Number of operations)	Mechanical	4,000	4,000	4,000	4,000
	Electrical	1,000	1,000	1,000	1,000
Type of trip unit					
Thermal-magnetic release		fixed	fixed	fixed	fixed
Hydraulic-magnetic release		-	-	-	-
Magnetic release only without thermal trip		-	-	-	-
Earth leakage protection for 3 pole					
Accessories					
Electrical auxiliaries	Auxiliary switch				
	Alarm switch				
	Shunt trip				
	Undervoltage trip				
External accessories	Direct rotary handle				
	Extended rotary handle				
	Terminal shield				
	Insulation barrier				
	Rear connection				
	Mechanical interlock				
	Plug-in device				
Dimensions (mm)	W× H× D (3P)	140 × 257× 109			
Weight(kg)	2 pole	5.2	5.2	5.2	5.2
	3 pole	6.2	6.2	6.2	6.2
	4 pole	7.8	7.8	7.8	7.8

Note) 1. applicable or available
2. available as a separate breaker