

Molded Case Circuit Breakers

Susol MCCB 100AF to 800AF Series

Frame Size (AF)			TE100	TE160	TD100	TD160						
Frame size	[AF]		100	160	100	160						
Rated current, In *	[A]		16~100	100, 125, 160	16, 20, 25, 32, 40, 60, 63, 80, 100	100, 125, 160, 1P: 16~160						
No. of poles			3,4	3,4	2*, 3, 4	1, 2*, 3, 4						
Rated operational voltage, Ue	AC	[V]	690	690	690	690, 1P: 240						
	DC	[V]	500	500	500	500, 1P:250						
Rated impulse withstand voltage, Uimp	[kV]		8	8	8	8						
Rated insulation voltage, Ui	[V]		750	750	1000	1000						
Rated ultimate short-circuit breaking capacity, Icu			S	N	S	N	N	H	L	N	H	L
AC 50/60Hz	220/240V	[kA]	50	85	50	85	85	100	200	85 (1P:30)	100 (1P:50)	200
	380/415V	[kA]	37	50	37	50	50	85	150	50	85	150
	440/460V	[kA]	25	37	25	37	50	70	130	50	70	130
	480/500V	[kA]	18	25	18	25	30	50	65	30	50	65
	525V	[kA]	-	-	-	-	22	35	50	22	35	50
	660/690V	[kA]	6	8	6	8	10	10	10	10	10	10
DC	250V	[kA]	37	50	37	50	42	65	100	42 (1P:16)	65 (1P:25)	100
	500V (2poles in series)	[kA]	37	50	37	50	42	65	100	42	65	100
Rated service breaking capacity, Ics												
AC 50/60Hz	220~525V	[%Icu]	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
	660/690V	[kA]	-	-	-	-	5	5	5	5	5	5
DC		[%Icu]	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Rated short-circuit making capacity Icm												
AC 50/60Hz	220/240V	[kA]	105	187	105	187	187	220	440	187 (1P:105)	220 (1P:105)	440
	380/415V	[kA]	77.7	105	77.7	105	105	187	330	105	187	330
	440/460V	[kA]	52.5	77.7	52.5	77.7	105	154	286	105	154	286
	480/500V	[kA]	36	52.5	36	52.5	63	105	143	63	105	143
	525V	[kA]	-	-	-	-	46	74	105	46	74	105
	660/690V	[kA]	9.2	13.6	9.2	13.6	17	17	17	17	17	17
Category of utilization			A			A			A			
Isolation behavior			●			●			●			
Trip unit (release)												
Thermal-Magnetic												
● fixed-thermal, fixed-magnetic FTU			●			●			●			
● adjustable-thermal, fixed-magnetic FMU			●			●			●**			
● adjustable-thermal, adjustable-magnetic ATU			-			-			-			
● magnetic only MTU			-			-			-			
Electronic												
● LSI ETS			-			-			-			
● LSI ETM			-			-			-			
Option	Earth-fault protection, Ig	Zone selective interlocking, ZSI	-			-			-			
		Ammeter	-			-			-			
		Communication	-			-			-			
		Earth-leakage protection module	-			-			-			
				-			-			-		
Connection	fixed	front-connection	●			●			●			
		rear-connection	●			●			●**			
	plug-in	front-connection	-			-			●**			
		rear-connection	-			-			●**			
Mechanical life [operations]			25000			25000			25000			
Electrical life @ 415 V AC [operations]			10000			10000			10000			
Basic dimensions, W×H×D (front connection)	1-pole	[mm]	-			-			35×140×86			
	3-pole	[mm]	76×130×82			76×130×82			90×140×86			
	4-pole	[mm]	101×130×82			101×130×82			120×140×86			
Weight (front connection)	1-pole	[kg]	-			-			0.57			
	3-pole	[kg]	1.05			1.05			1.5			
	4-pole	[kg]	1.35			1.35			1.8			
Reference standard			IEC60947-2			IEC60947-2			IEC60947-2			

Note) ● applicable or available

* Applicable to MCCBs equipped with FTU, FMU, ATU ** Not applicable to 1pole
* 2 pole MCCB in 3pole frame size

※ The trip unit ATU is available from 125A



TS100			TS160			TS250			TS400			TS630			TS800		
100			160			250			400			630			800		
40, 50, 63, 80, 100			(100)*, 125, 160			125, 160, 200, 250			300, 400			500, 630			500, 630		
2*, 3, 4			2*, 3, 4			2*, 3, 4			2*, 3, 4			2*, 3, 4			2*, 3, 4		
690			690			690			690			690			690		
500			500			500			500			500			500		
8			8			8			8			8			8		
1000			1000			1000			1000			1000			1000		
N	H	L	N	H	L	N	H	L	N	H	L	N	H	L	N	H	L
100	120	200	100	120	200	100	120	200	100	120	200	100	120	200	100	120	200
50	85	150	50	85	150	50	85	150	65	85	150	65	85	150	65	100	150
50	70	130	50	70	130	50	70	130	65	85	130	65	85	130	65	100	130
42	65	85	42	65	85	42	65	85	42	65	85	42	65	85	42	85	100
22	35	50	22	35	50	22	35	50	22	35	50	22	35	50	22	35	50
10	10	10	10	10	10	10	10	10	10	20	35	10	20	35	10	20	35
50	85	100	50	85	100	50	85	100	50	85	100	50	85	100	50	85	100
50	85	100	50	85	100	50	85	100	50	85	100	50	85	100	50	85	100
100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
5	5	5	5	5	5	5	5	5	10	12	12	10	12	12	10	20	20
100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
220	264	440	220	264	440	220	264	440	220	264	440	220	264	440	220	264	440
105	187	330	105	187	330	105	187	330	143	187	330	143	187	330	143	220	330
105	154	286	105	154	286	105	154	286	143	187	286	143	187	286	143	220	286
88	143	187	88	143	187	88	143	187	88	143	187	88	143	187	88	187	220
46	74	105	46	74	105	46	74	105	46	74	105	46	74	105	46	74	105
17	17	17	17	17	17	17	17	17	17	40	74	17	40	74	17	40	74
A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
-	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
-	-	-	-	-	-	-	-	-	-	●	●	●	●	●	●	●	●
-	-	-	-	-	-	-	-	-	-	●	●	●	●	●	●	●	●
-	-	-	-	-	-	-	-	-	-	●	●	●	●	●	●	●	●
-	-	-	-	-	-	-	-	-	-	●	●	●	●	●	●	●	●
-	-	-	-	-	-	-	-	-	-	●	●	●	●	●	●	●	●
-	-	-	-	-	-	-	-	-	-	●	●	●	●	●	●	●	●
●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
25000	25000	25000	25000	25000	25000	25000	25000	25000	20000	20000	20000	20000	20000	20000	10000	10000	10000
10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	6000	6000	6000	6000	3000	3000	3000
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
105x160x86	105x160x86	105x160x86	105x160x86	105x160x86	105x160x86	105x160x86	105x160x86	105x160x86	140x260x110	140x260x110	140x260x110	140x260x110	140x260x110	140x260x110	210x320x135	210x320x135	210x320x135
140x160x86	140x160x86	140x160x86	140x160x86	140x160x86	140x160x86	140x160x86	140x160x86	140x160x86	186.5x260x110	186.5x260x110	186.5x260x110	186.5x260x110	186.5x260x110	186.5x260x110	280x320x135	280x320x135	280x320x135
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	2	2	2	2	2	2	2	2	5.4	5.4	5.4	5.4	5.4	5.4	15.1	15.1	15.1
2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	7.2	7.2	7.2	7.2	7.2	7.2	19.6	19.6	19.6
IEC60947-2	IEC60947-2	IEC60947-2	IEC60947-2	IEC60947-2	IEC60947-2	IEC60947-2	IEC60947-2	IEC60947-2	IEC60947-2	IEC60947-2	IEC60947-2	IEC60947-2	IEC60947-2	IEC60947-2	IEC60947-2	IEC60947-2	IEC60947-2
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						
	TD160	122.5%	120.0%	115.0%	110.0%	107.5%	105.0%	102.5%	100.0%	97.5%	95.0%						
	TS250	122.5%	120.0%	115.0%	110.0%	107.5%	105.0%	102.5%	100.0%	97.5%	95.0%						
	TS630	110.0%	109.0%	107.0%	105.0%	104.0%	103.0%	101.5%	100.0%	98.5%	97.0%						
Calibrated for 50°C	TS800	110.0%	109.0%	107.0%	105.0%	104.0%	103.0%	101.5%	100.0%	98.5%	97.0%						
	TD160	122.0%	120.0%	116.0%	112.0%	110.0%	108.0%	106.0%	104.0%	102.0%	100.0%						
	TS250	122.0%	120.0%	116.0%	112.0%	110.0%	108.0%	106.0%	104.0%	102.0%	100.0%						
	TS630	122.2%	112.0%	110.0%	108.0%	107.0%	106.0%	104.5%	103.0%	101.5%	100.0%						
TS800	112.2%	112.0%	110.0%	108.0%	107.0%	106.0%	104.5%	103.0%	101.5%	100.0%							

Molded Case Circuit Breakers





Susol MCCB 1600AF Series

Electrical characteristics



Frame Size (AF)			TS1000		TS1250		TS1600				
Type			TS1000		TS1250		TS1600				
Ampere frame			1000		1250		1600				
Pole			3, 4		3, 4		3, 4				
Rated current, I _n (A)		-5~40°C	800, 1000		1250		1600				
		50°C	800, 1000		1250		1560				
		65°C	800, 1000		1240		1420				
Rated insulation voltage, U _i	(V)		1000		1000		1000				
Rated impulse withstand voltage, U _{imp}	(kV)		8		8		8				
Rated operational voltage, U _e	(V)	AC50/60Hz	690		690		690				
		DC	-		-		-				
Rated short-circuit breaking capacity IEC60947-2 AC50/60Hz (sym)			N	H	L	N	H	N	H		
Rated ultimate short-circuit breaking capacity, (kA) (I _{cu})		220/240V	55	75	200	55	75	55	75		
		380/415V	50	70	150	50	70	50	70		
		440/460V	50	65	130	50	65	50	65		
		480/500V	40	50	100	40	50	40	50		
		660/690V	35	45	-	35	45	35	45		
DC		250V 2P	-	-	-	-	-	-	-		
		500V 2P	-	-	-	-	-	-	-		
		750V 3P	-	-	-	-	-	-	-		
Rated service breaking capacity (I _{cs})	%I _{cu}		100%	75%	100%	100%	75%	100%	75%		
Rated short-circuit making capacity (kA) (I _{cw})	AC50/60Hz	1s	25		12		25		25		
		3s	-		-		-		-		
Overriding instantaneous protection		kA peak	50		30		50		50		
Isolation			○		○		○		○		
Category			B		A		B		B		
(Life cycle)	Mechanical life (operations)		10000		4000		10000		10000		
	Electrical life (operations)	440V	In/2	6000		4000		5000		5000	
			In	5000		3000		4000		2000	
	690V	In/2	4000		3000		3000		2000		
In		2000		2000		2000		1000			
Pollution degree			3		3		3		3		
Dimension (mm)		3-pole	210×327×152.5								
(H×W×D)		4-pole	280×327×152.5								
Weight (kg)		3-pole	13								
		4-pole	16.8								

Overview

Classification	N type	A type	P type	S type
Externals				
Current protection	• L / S / I / G / Thermal	• L / S / I / G / Thermal • ZSI(Protective coordination)	• L / S / I / G / Thermal(Continuous) • ZSI(Protective coordination)	• P type
Other protection	-	• Earth leakage (Option)	• Earth leakage(Option) • Over/Under current • Over/Under frequency • Unbalance(Voltage/Current) • Reverse power	• P type
Measurement function	-	• Current (R / S / T / N)	• 3 Phase Voltage/Current RMS/Vector • Power(P, Q, S), PF(3-Phase) • Energy(Positive/Negative) • Frequency, Demand	• 3 Phase Voltage/Current RMS/Vector • Power(P, Q, S), PF(3-Phase) • Energy(Positive/Negative) • Frequency, Demand • Voltage/Current harmonics (1st-63th) • 3 Phase Waveforms • THD, TDD, K-Factor
Fine adjustment	-	-	• Fine adjustment for long/short time delay/instantaneous/ ground	• P type
Pre Trip Alarm	-	-	• Overload protection relays : DO (Alarm) (Ground fault is not available when using Pre trip alarm)	• P type
Digital Output	-	• 3DO (Fixed) • L, S/I, G Alarm	• 3DO (Programmable) • Trip, Alarm, General	• P type
IDMTL setting	-	-	• Compliance with IEC60255-3 SIT, VIT, EIT, DT	• P type
Communication	-	• Modbus/RS-485 • Profibus-DP	• Modbus / RS-485 • Profibus-DP	• Modbus / RS-485 • Profibus-DP
Power supply	• Self Power - Power source works over 25% of current of In (one pole)	• Self Power - Power source works over 25% of current of In (one pole) - External power source are required for comm. • AC/DC 100~250V • DC 24~60V	• AC/DC 100~250V • DC 24~60V * Basic protection function (L / S / I / G) is still under normal operation without control power.	• AC/DC 100~250V • DC 24~60V * Basic protection function (L / S / I / G) is still under normal operation without control power.
RTC timer	• Available	• Available	• Available	• Available
LED for trip info.	• Long time delay • Short time delay/Instantaneous • Ground fault	• N type	• N type	• N type
Fault recording	-	• 10 records (Fault/Current/Date and Time)	• 256 records (Fault/Current/Date and Time)	• 256 records • Last fault wave recording (3 Phase)
Event recording	-	-	• 256 records(Content, Status, Date)	• P type
Operating button	• Reset button	• Reset, Menu Up/Down, Left/Right, Enter	• A type	• A type

Molded Case Circuit Breakers

Metasol 30AF to 250AF Series

Frame Size (AF)		30	50			60	
Type		S-Type	N-Type	S-Type	H-Type	N-Type	S-Type
Type and Pole	2 pole	ABS32c	ABN52c	ABS52c	ABH52c	ABN62c	ABS62c
	3 pole	ABS33c	ABN53c	ABS53c	ABH53c	ABN63c	ABS63c
	4 pole	ABS34c	ABN54c	ABS54c	ABH54c	ABN64c	ABS64c
Rated current, I _n	(A)	(3, 5, 10) 15, 20, 30	15, 20, 30, 40, 50		15, 20, 30, 40, 50	15, 20, 30, 40, 50, 60	
Rated operational voltage, U _e	AC(V)	690	690	690	690	690	690
	DC(V)	500	500	500	500	500	500
Rated insulation voltage, U _i	(V)	1000	1000	1000	1000	1000	1000
Rated impulse withstand voltage, U _{imp}	(kV)	8	8	8	8	8	8
Rated short-circuit breaking capacity(I _{cu}) kA (Sym), KSC8321, IEC 60947-2							
AC	690V	2.5	2.5	5	10	2.5	5
	480/500V	7.5	7.5	10	35	7.5	10
	415/460V	14 (10)	14	18	50	14	18
	380V	18 (14)	18	22	50	18	22
	220/250V	30 (25)	30	35	100	30	35
DC	500V(3P)	5	5	10	30	5	10
	250V(2P)	5	5	10	30	5	10
Service breaking capacity(%I _{cu}), I _{cs}		100	100	100	100	100	100
Category of use		A	A	A	A	A	A
Endurance (Number of operations)	Mechanical	25,000	25,000	25,000	25,000	25,000	25,000
	Electrical	10,000	10,000	10,000	10,000	10,000	10,000
Type of trip unit							
Thermal-magnetic release		fixed	fixed	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	●	●	●	●	●	●
	Pad handle lock	●	●	●	●	●	●
	Plug-in device	●	●	●	●	●	●
Dimensions (mm)	W×H×D (3P)	75×130×60	75×130×60		90×155×60	75×130×60	
Weight(kg)	2 pole	0.5	0.5	0.5	0.7	0.5	0.5
	3 pole	0.7	0.7	0.7	1	0.7	0.7
	4 pole	0.9	0.9	0.9	1.2	0.9	0.9

Note) 1. ● applicable or available
 2. ▲ available as a separate breaker
 3. The I_{cs}(service breaking capacity) of ABN100e, ABL125/250AF are in ()



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, I _n	(A)	250, 300, 350, 400			
Rated operational voltage, U _e	AC(V)	690	690	690	690
	DC(V)	500	500	500	500
Rated insulation voltage, U _i	(V)	1000	1000	1000	1000
Rated impulse withstand voltage, U _{imp}	(kV)	8	8	8	8
Rated short-circuit breaking capacity(I _{cu}) 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(%I _{cu}), I _{cs}		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



	800			1000		1200		
	N-Type	S-Type	L-Type	S-Type	L-Type	S-Type		L-Type
	ABN802c	ABS802c	ABL802c	-	-	-	-	-
	ABN803c	ABS803c	ABL803c	ABS1003b	ABL1003b	ABS1203b	ABS1203bE	ABL1203b
	ABN804c	ABS804c	ABL804c	ABS1004b	ABL1004b	ABS1204b	-	ABL1204b
	500, 630, 700, 800			1000		1200		
	690	690	690	600	600	600	600	600
	500	500	500	-	-	-	-	-
	1000	1000	1000	690	690	690	690	690
	8	8	8	6	6	6	6	6
	8	10	14	-	-	-	-	-
	25	45	65	50	75	50	50	75
	37	65	85	65	85	65	65	85
	45	75	100	65	85	65	65	85
	50	85	125	100	125	100	100	125
	10	20	40	-	-	-	-	-
	10	20	40	-	-	-	-	-
	100	100	75	50	50	50	50	50
	A	A	A	A	A	A	A	A
	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500
	500	500	500	500	500	500	500	500
	fixed	fixed	fixed	fixed	fixed	fixed	-	fixed
	-	-	-	-	-	-	Adjustable	-
	-	-	-	-	-	-	-	-
	▲	▲	▲	-	-	-	●	-
	●	●	●	●	●	●	●	●
	●	●	●	●	●	●	●	●
	●	●	●	●	●	●	●	●
	●	●	●	●	●	●	●	●
	●	●	●	-	-	-	-	-
	●	●	●	-	-	-	-	-
	●	●	●	-	-	-	-	-
	●	●	●	●	●	●	●	●
	●	●	●	●	●	●	●	●
	●	●	●	-	-	-	-	-
	●	●	●	-	-	-	-	-
	210×280×109			220×400×105		220×400×105		
	11	11	11	-	-	-	-	-
	11.5	11.5	11.5	19.6	19.6	-	-	-
	18.2	18.2	18.2	-	-	25.7	25.7	25.7

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	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%