

Molded case circuit breakers

Susol MCCB 100AF to 800AF Series

			TE100	TE160	TD100	TD160
Frame size [AF]			100		160	
Rated current, In [*] [A]			16~100		100,125,160	16, 20, 25, 32, 40, 50, 63, 80, 100
No. of poles			3,4		2*, 3, 4	
Rated operational voltage, Ue		AC [V]	690		690	
		DC [V]	500		500	
Rated impulse withstand voltage, Uimp [kV]					8	
Rated insulation voltage, Ui [V]			8		750	
Rated ultimate short-circuit breaking capacity, Icu			S	N	N	H
AC 50/60Hz 220/240V		[kA]	50	85	85	100
		380/415V [kA]	37	50	50	85
		440/460V [kA]	25	37	50	70
		480/500V [kA]	18	25	30	65
		660/690V [kA]	6	8	5	10
DC		250V [kA]	37	50	42	65
		500V(2poles in series) [kA]	37	50	42	65
Rated service breaking capacity, Ics [%Icu]			100%	100%	100%	100%
Rated short-circuit making capacity Icm						
AC 50/60Hz 220/240V		[kA]	105	187	187	220
		380/415V [kA]	77.7	105	105	187
		440/460V [kA]	52.5	77.7	105	154
		480/500V [kA]	36	52.5	63	105
		660/690V [kA]	9.2	13.6	8	14
Category of utilization			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	●		●	
		rear-connection	●		●***	
		plug-in	-		●***	
		rear-connection	-		●***	
Mechanical life [operations]			25000		25000	
Electrical life @ 415 V AC [operations]			10000		10000	
Basic dimensions, W×H×D (front connection)		1-pole [mm]	-		35×140×86	
		3-pole [mm]	76×130×82		90×140×86	
		4-pole [mm]	101×130×82		120×140×86	
Weight (front connection)		1-pole [kg]	-		0.57	
		3-pole [kg]	1.05		1.5	
		4-pole [kg]	1.35		1.8	
Reference standard			IEC60947-2		IEC60947-2	

Note) ● applicable or available

* Applicable to MCCBs equipped with FTU, FMU, ATU
* 2 pole MCCB in 3pole frame size

** 700A only available for TS800FTU
*** Not applicable to 1pole

※ 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			700**, 800		
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		
750			750			750			750			750			750		
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
10	15	20	10	15	20	10	15	20	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%
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
17	30	40	17	30	40	17	30	40	17	40	74	17	40	74	17	40	74
A			A			A			A			A			A		
●			●			●			●			●			●		
●			●			●			●			●			●		
●			●			●			●			●			●		
-			●			●			●			●			●		
●			●			●			●			●			●		
●			●			●			●			●			●		
-			-			-			●			●			●		
-			-			-			●			●			●		
-			-			-			●			●			●		
-			-			-			●			●			●		
-			-			-			●			●			●		
●			●			●			●			●			●		
●			●			●			●			●			●		
●			●			●			●			●			●		
●			●			●			●			●			●		
25000			25000			25000			20000			20000			10000		
10000			10000			10000			6000			6000			3000		
-			-			-			-			-			-		
105 × 160 × 86			105 × 160 × 86			105 × 160 × 86			140 × 260 × 110			140 × 260 × 110			210 × 320 × 135		
140 × 160 × 86			140 × 160 × 86			140 × 160 × 86			186.5 × 260 × 110			186.5 × 260 × 110			280 × 320 × 135		
-			-			-			-			-			-		
2			2			2			5.4			5.4			15.1		
2.6			2.6			2.6			7.2			7.2			19.6		
IEC60947-2			IEC60947-2			IEC60947-2			IEC60947-2			IEC60947-2			IEC60947-2		

	Amb. Temp.	-5°C	0°C	10°C	20°C	25°C	30°C	35°C	40°C	45°C	50°C
Calibrated for 40°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%
	TS800	110.0%	109.0%	107.0%	105.0%	104.0%	103.0%	101.5%	100.0%	98.5%	97.0%
Calibrated for 50°C	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%

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Susol MCCB 1600AF Series

Electrical characteristics



Type				
Ampere frame				
Pole				
Rated current,(A)		In	-5~40℃ 50℃ 65℃	
Rated insulation voltage, (V)		Ui		
Rated impulse withstand voltage, (kV)		Uimp		
Rated operational voltage, (V)		Ue	AC50/60Hz DC	
Rated short-circuit breaking capacity				
IEC60947-2 AC50/60Hz (sym)	Rated ultimate short-circuit breaking capacity, (kA) (Icu)		220/240V 380/415V 440/460V 480/500V 660/690V	
		DC	250V 2P 500V 2P 750V 3P	
			Rated service breaking capacity (Ics)	%Icu
			Rated short-circuit making capacity (kA) (Icw)	AC50/60Hz 1s 3s
		Overriding instantaneous protection		kA peak
	Isolation			
	Category			
	(Life cycle)	Mechanical life (operations)		
		Electrical life (operations)	440V	In/2 In
				690V
Pollution degree				
Dimension (mm) (H×W×D)			3-pole 4-pole	
Weight (kg)			3-pole 4-pole	

TS1000			TS1250		TS1600	
TS1000			TS1250		TS1600	
1000			1250		1600	
3, 4			3, 4		3, 4	
800, 1000			1250		1600	
800, 1000			1250		1560	
800, 1000			1240		1420	
1000			1000		1000	
8			8		8	
690			690		690	
-			-		-	
N	H	L	N	H	N	H
55	75	200	55	75	55	75
50	70	150	50	70	50	70
50	65	130	50	65	50	65
40	50	100	40	50	40	50
35	45	-	35	45	35	45
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
100%	75%	100%	100%	75%	100%	75%
25		12	25		25	
-			-		-	
50		30	50		50	
○			○		○	
B		A	B		B	
10000		4000	10000		10000	
6000		4000	5000		5000	
5000		3000	4000		2000	
4000		3000	3000		2000	
2000		2000	2000		1000	
3			3		3	
327×210×152.5						
327×280×152.5						
13						
16.8						