

Molded case circuit breakers

Susol MCCB 100AF to 800AF Series

			TE100	TE160	TD100	TD160						
Frame size [AF]			100	160	100	160						
Rated current, In *			16~100	100,125,160	16, 20, 25, 32, 40, 50, 63, 80, 100	1P: 16, 20, 25, 32, 40, 50, 63, 80,100,125, 160 2, 3P: 100, 125, 160						
No. of poles			3,4	3,4	2*, 3, 4	1, 2*, 3, 4						
Rated operational voltage, Ue	AC	[V]	690	690	690	240(1P), 690						
	DC	[V]	500	500	500	250(1P), 500						
Rated impulse withstand voltage, Uimp [kV]			8	8	8	8						
Rated insulation voltage, Ui [V]			750	750	750	750						
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	30(1P) 85	50(1P) 100	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
	660/690V [kA]		6	8	6	8	5	8	10	5	8	10
DC	250V [kA]		37	50	37	50	42	65	100	16(1P) 42	25(1P) 65	100
	500V(2poles in series) [kA]		37	50	37	50	42	65	100	42	65	100
Rated service breaking capacity, Ics [%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	105(1P) 187	105(1P) 220	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
	660/690V [kA]		9.2	13.6	9.2	13.6	8	14	17	8	14	17
Category of utilization			A	A	A	A	A	A	A	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	25000	25000	25000	25000	25000	25000	25000
Electrical life @ 415 V AC [operations]			10000	10000	10000	10000	10000	10000	10000	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	76×130×82	76×130×82	90×140×86	90×140×86	90×140×86	90×140×86	90×140×86	90×140×86
	4-pole [mm]		101×130×82	101×130×82	101×130×82	101×130×82	120×140×86	120×140×86	120×140×86	120×140×86	120×140×86	120×140×86
Weight (front connection)	1-pole [kg]		-	-	-	-	-	-	-	0.57	-	-
	3-pole [kg]		1.05	1.05	1.05	1.05	1.5	1.5	1.5	1.5	1.5	1.5
	4-pole [kg]		1.35	1.35	1.35	1.35	1.8	1.8	1.8	1.8	1.8	1.8
Reference standard			IEC60947-2	IEC60947-2	IEC60947-2	IEC60947-2	IEC60947-2	IEC60947-2	IEC60947-2	IEC60947-2	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		

Molded case circuit breakers

Susol MCCB 1600AF Series

Electrical characteristics



Type			
Ampere frame			
Pole			
Rated current,(A)		In	-5~40°C
			50°C
			65°C
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	In/2
	In		
Pollution degree			
Dimension (mm)			3-pole
(H×W×D)			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						