

Molded Case Circuit Breakers

Susol MCCB 100AF to 800AF Series

Frame			TE100		TE160		TD100			TD160		
Frame size	[AF]		100		160		100			160		
Rated current, I _n *	[A]		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, U _e	AC	[V]	690		690		690			240(1P), 690		
	DC	[V]	500		500		500			250(1P), 500		
Rated impulse withstand voltage, U _{imp}		[kV]	8		8		8			8		
Rated insulation voltage, U _i [V]			750		750		750			750		
Rated ultimate short-circuit breaking capacity, I _{cu}			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, I _{cs}		[%I _{cu}]	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Rated short-circuit making capacity I _{cm}												
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		
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, I _g		-		-		-			-		
	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			
Electrical life @ 415 V AC	[operations]	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		90×140×86			90×140×86		
	4-pole	[mm]	101×130×82		101×130×82		120×140×86			120×140×86		
Weight (front connection)	1-pole	[kg]	-		-		-			0.57		
	3-pole	[kg]	1.05		1.05		1.5			1.5		
	4-pole	[kg]	1.35		1.35		1.8			1.8		
Reference standard		IEC60947-2		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

