

Molded Case Circuit Breakers

Susol MCCB 100AF to 800AF Series

MCCB

Type			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, 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, U _e	AC	[V]	690		690		690			690, 1P; 240		
	DC	[V]	500		500		500			500, 1P:250		
Rated impulse withstand voltage, U _{imp}		[kV]	8		8		8			8		
Rated insulation voltage, U _i		[V]	750		750		1000			1000		
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	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, I _{cs}												
AC 50/60Hz	220~525V	[%I _{cu}]	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
	660/690V	[kA]	-	-	-	-	5	5	5	5	5	5
DC		[%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	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			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