

# MCCBs for power distribution

Susol

## Electrical characteristics

		TE100	TE160	TD100	TD160						
Frame size		100	160	100	160						
Rated current, I <sub>n</sub> *		16-100	100,125,160	16, 20, 25, 32, 40, 50, 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 <sub>e</sub>	AC	690	690	690	690, 1P:240						
	DC	500	500	500	500, 1P:250						
Rated impulse withstand voltage, U <sub>imp</sub>		8	8	8	8						
Rated insulation voltage, U <sub>i</sub> [V]		750	750	750	750						
Rated ultimate short-circuit breaking capacity, I <sub>cu</sub>		S	N	S	N	N	H	L	N	H	L
AC 50/60Hz	220/240V	50	85	50	85	85	100	200	85 (1P:30)	100 (1P:50)	200
	380/415V	37	50	37	50	50	85	150	50	85	150
	440/460V	25	37	25	37	50	70	130	50	70	130
	480/500V	18	25	18	25	30	50	65	30	50	65
	660/690V	6	8	6	8	5	8	10	5	8	10
DC	250V	37	50	37	50	42	65	100	42 (1P:16)	65 (1P:25)	100
	500V(2poles in series)	37	50	37	50	42	65	100	42	65	100
Rated service breaking capacity, I <sub>cs</sub> [%I <sub>cu</sub> ]		100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Rated short-circuit making capacity I <sub>cm</sub>											
AC 50/60Hz	220/240V	105	187	105	187	187	220	440	187 (1P:105)	220 (1P:105)	440
	380/415V	77.7	105	77.7	105	105	187	330	105	187	330
	440/460V	52.5	77.7	52.5	77.7	105	154	286	105	154	286
	480/500V	36	52.5	36	52.5	63	105	143	63	105	143
	660/690V	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, 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						
Electrical life @ 415 V AC [operations]		10000	10000	10000	10000						
Basic dimensions, W×H×D (front connection)	1-pole	-	-	-	-						35 × 140 × 86
	3-pole	76 × 130 × 82	76 × 130 × 82	90 × 140 × 86	90 × 140 × 86						90 × 140 × 86
	4-pole	101 × 130 × 82	101 × 130 × 82	120 × 140 × 86	120 × 140 × 86						120 × 140 × 86
Weight (front connection)	1-pole	-	-	-	-						0.57
	3-pole	1.05	1.05	1.5	1.5						1.5
	4-pole	1.35	1.35	1.8	1.8						1.8
Reference standard		IEC60947-2	IEC60947-2	IEC60947-2	IEC60947-2						IEC60947-2

※ Breaking capacity at 660/690V is for your reference. (not certified)

\* Applicable to MCCBs equipped with FTU, FMU, ATU

\*\* Not applicable to 1pole

\* 2 pole MCCB in 3pole frame size

