

MCCBs for power distribution

Susol

Electrical characteristics

		TE100	TE160	TD100	TD160						
Frame size		100	160	100	160						
Rated current, I _n *		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 _e	AC	690	690	690	690, 1P:240						
	DC	500	500	500	500, 1P:250						
Rated impulse withstand voltage, U _{imp}		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	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 _{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	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						

※ 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

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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			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	85	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		

* The trip unit ATU is available from 125A