

Tmax T Molded Case Circuit Breakers

The series of Tmax molded case circuit breakers are divided into different basic sizes, with an application range from 15A to 630A and breaking capacities up to 100kA at 480VAC.

Technical Data of Tmax molded case circuit breakers

Frame		Tmax T1	Tmax T2	Tmax T3	Tmax T4	Tmax T5							
Rated uninterrupted current, Iu	A	160	160	250	250/320	400/630							
Number of poles		3	3	3	3	3							
Rated service voltage, Ue	AC50/60Hz V	690	690	690	690	690							
	DC V	500	500	500	750	750							
Rated impulse withstand voltage, Uimp	kV	8	8	8	8	8							
Rated insulation voltage, Ui	V	800	800	800	1000	1000							
Test voltage at industrial frequency for 1M	V	3000	3000	3000	3500	3500							
Rated ultimate short-circuit breaking capacity, Icu	Breaking class	kA	B	N	N	S	N	S	N	S	N	S	
	220/230VAC, 50/60Hz	kA	25	50	65	85	50	85	70	85	70	85	
	380/415VAC, 50/60Hz	kA	16	36	36	50	36	50	36	50	36	50	
	440VAC, 50/60Hz	kA	10	32	30	45	25	40	30	40	30	40	
	500VAC, 50/60Hz	kA	8	15	25	30	20	30	25	30	25	30	
	690VAC, 50/60Hz	kA	3	6	6	7	5	8	20	25	20	25	
	250VDC, 2 poles in series	kA	16	36	36	50	36	50	36	50	36	50	
	250VDC, 3 poles in series	kA	20	40	40	55	40	55	-	-	-	-	
	500VDC, 2 poles in series	kA	-	-	-	-	-	-	25	36	25	36	
	500VDC, 3 poles in series	kA	16	36	36	50	36	50	-	-	-	-	
	750VDC, 3 poles in series	kA	-	-	-	-	-	-	16	25	16	25	
	Rated service short-circuit breaking capacity, Ics	220/230VAC, 50/60Hz	Icu	100%	75%	100%	100%	75%	50%	100%	100%	100%	100%
		380/415VAC, 50/60Hz	Icu	100%	75%	100%	100%	75%	50%	100%	100%	100%	100%
440VAC, 50/60Hz		Icu	100%	50%	100%	100%	75%	50%	100%	100%	100%	100%	
500VAC, 50/60Hz		Icu	100%	50%	100%	100%	75%	50%	100%	100%	100%	100%	
690VAC, 50/60Hz		Icu	100%	50%	100%	100%	75%	50%	100%	100%	100%	100%	
Rated short-circuit making capacity, Icm	220/230VAC, 50/60Hz	kA	52.5	105	143	187	105	187	154	187	154	187	
	380/415VAC, 50/60Hz	kA	32	75.6	75.6	105	75.6	105	75.6	105	75.6	105	
	440VAC, 50/60Hz	kA	17	46.2	63	94.5	52.5	84	63	84	63	84	
	500VAC, 50/60Hz	kA	13.6	30	52.5	63	40	63	52.5	63	52.5	63	
	690VAC, 50/60Hz	kA	4.3	9.2	9.2	11.9	7.7	13.6	40	52.5	40	52.5	
Opening time, 415VAC			7	5	3	3	7	6	5	5	6	6	
Category of utilisation, IEC 60947-2			A		A		A		A		A	A-B	
Isolation behavior			■		■		■		■		■		
Thermo-magnetic releases	T fixed, M fixed	TMF	-		-		-		-		-		
	T adjustable, M fixed	TMD	■		■		■		■		■		
	T adjustable, M adjustable, (5-10)xIn	TMA	-		-		-		-		-		
	T adjustable, M fixed, 3xIn	TMG	-		-		-		-		-		
	T adjustable, M adjustable, (2.5-5)xIn	TMG	-		-		-		-		-		
	Magnetic only	MA	-		■		■		■		■		
Electronic releases	PR221DS-LS/I		-		■		-		■		■		
	PR221DS-I		-		■		-		■		■		
	PR222DS/P-LSI		-		-		-		■		■		
	PR222DS/P-LSIG		-		-		-		■		■		
	PR222DS/PD-LSI		-		-		-		■		■		
	PR222DS/PD-LSIG		-		-		-		■		■		
	PR222MP		-		-		-		■		■		
Interchangeability			-		-		-		■		■		
Versions		Fixed	Fixed/Plug-in	Fixed/Plug-in	Fixed/Plug-in	Fixed/Plug-in	Fixed/Plug-in	Fixed/Plug-in	Fixed/Plug-in	Fixed/Plug-in	Fixed/Plug-in	Fixed/Plug-in	
Fixing on DIN rail		EN 50022	EN 50022	EN 50022	EN 50022	EN 50022	EN 50022	EN 50022	EN 50022	EN 50022	EN 50022	EN 50022	
Mechanical life	Number of operations/operations		25000/240	25000/240	25000/240	25000/240	25000/240	25000/240	20000/240	20000/240	20000/120	20000/120	
Electric life	per hour		8000/120	8000/120	8000/120	8000/120	8000/120	8000/120	8000/120	8000/120	7000/60	7000/60	
Dimensions	WxDxH	mm	76x70x130	90x70x130	105x70x150	105x70x150	105x70x150	105x104x205	105x104x205	140x104x205	140x104x205	140x104x205	
Weight		kg	0.9	1.1	1.5	1.5	1.5	2.35	2.35	2.35	3.25	3.25	