

2

Ratings and Specifications

Moulded Case Circuit Breakers

13 TB series for distribution boards and control boards

Category	Compatibility circuit breaker				Line side Plug-in	Plug-in	Compatibility circuit breaker				TB mini size			
	50				50	50	100				50	50		
Frame size (A)	TB-5S				TB-5P	TB-5D	TB-10S				TB-51C	TB-52C		
Type	1 2 3 4				1 2	2	1 2 3 4				2 ^{④③}	2		
Number of poles	1 2 3 4				1 2	2	1 2 3 4				2 ^{④③}	2		
■ Ratings														
Rated current, A	10 30 30				10 30	10 30	60				15	15		
Calibrated at 40°C	15 40 50				15 40	15 40	75				20	20		
45°C	20 50				20 50	20 50	100				30	30		
Rated operational voltage V	240 415 415 415				240 415	250	240 415 415 415				100	240		
AC	125 125 — —				— 125	125	125 125 — —				—	—		
DC	— — — —				—	—	— — — —				—	—		
■ Rated breaking capacity, kA														
JIS C 8201-2-1 Ann.2	— 2.5 2.5 2.5				— 2.5	—	— 5 5 5				—	—		
AC 415 V	2.5 5 — —				2.5 5	—	5 5 5 5				—	2.5		
240 V	2.5 5 5 5				2.5 5	—	5 5 5 5				—	2.5		
200 V	— — — —				—	—	— 5 — —				—	5		
100 / 200 V	5 — — —				5 —	—	5 — — —				5	—		
100 V	1 5 — —				— 5	—	1 5 — —				—	—		
DC 110 V	— 5 ^{④④} — —				— 5 ^{④④}	5 ^{④④}	— — — —				—	—		
AC 250 V	— 42 — —				— 42	42	— — — —				—	—		
125 V	— 5 — —				— 5	5	— — — —				—	—		
DC 125 V	— — — —				—	—	— — — —				—	—		
■ External dimensions, mm														
	a	25	50	75	100	25	50	50	25	50	75	100	25	25
	b	95				74.5		74.5	95				95	95
	c	60				60		60	60				60	60
	d	77	79			77	79	79	77	80			77	77
Weight kg		0.16	0.34	0.5	0.66	0.13	0.28	0.28	0.21	0.42	0.63	0.84	0.15	0.16
■ Connections														
Front-connected type on both line side and load side	● ^{④⑤}				—	—	●				● ^{④⑧}	● ^{④⑧}		
Line side plug-in type, load side front-connected type	—				●	—	—				—	—		
Plug-in type on both line side and load side	—				—	●	—				—	—		
■ Mountings (optional)														
Clip-in chassis	●				—	—	●				●	●		
Mounting base for single-row installation	—				● ^{④⑦}	● ^{④⑦}	—				—	—		
Mounting base for branched-into-dual-rows	—				● ^{④⑦}	● ^{④⑦}	—				—	—		
■ Accessories (optional)														
Auxiliary switch	—				—	—	—				● ^{⑧⑧}	● ^{⑧⑧}		
Alarm switch	—				—	—	—				● ^{⑧⑧}	● ^{⑧⑧}		
Toggle holder	●				●	●	●				●	●		
Toggle lock	●				●	●	●				—	—		
Toggle cap	●				●	●	●				●	●		
CE marking	Non				Non	Non	Non				Non	Non		
Overcurrent trip mechanism	Thermal-magnetic				Thermal-magnetic	Thermal-magnetic	Thermal-magnetic				Thermal-magnetic	Thermal-magnetic		
Colour of cover	Black				Black	Black	Black				Black	Black		
Reverse connection	Yes				Yes	Yes	Yes				Yes	Yes		
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Notes:
 ● : "yes" or "available". — : "no" or "not available".
 ④③ : This is 2-pole 1-element. ④④ : 2.5kA for 10A. ④⑤ : A wire clamping terminal is provided. ④⑦ : Specify the branch bars when ordering.
 ④⑧ : Distribution board branch conductors and busbar conductor supports are available. (Optional)
 ⑧⑧ : The auxiliary switch and alarm switch cannot be applied at the same time.