

Ratings and Specifications

Earth Leakage Circuit Breakers

19 Earth Leakage Circuit Breakers for distribution boards and control boards (Harmonics/surge with countermeasure)

From sine (A)	- 20	<u></u>	<u></u>	FO	100	 -
Frame size (A)	30	50	50	50	100	
Туре	TZ30EC	TZ50EE	TZ-51C	TZ-52C	TZ100EC	
Number of poles	2 3	2 3	2 43/84	2	3	
Phase and wires 1ø2W (4)	• •	0 0	•	0/1 0/10	<u>•</u> –	
3ø3W, 1ø3W (5)	●(1ø3W) ●	●(1ø3W)		●(1ø3W)		
Rated current, A	5 30	5 30	15	15	60	
Calibrated at 40°C	10	10 40	20	20	75	
Calibrated at 40 C	15	15 50	30	30	100	
	20	20	30	30	100	
Rated operational voltage AC V	100-240	100-240	100	100-200	100-240	
riated operational voltage. Ac v	common	common	100	common	common	
Operable voltage fluctuation range V		80~264	80~121	80~242	80~264	
Rated sensitivity current mA Instantaneous tripping type	15, 30	15, 30, 100	15, 30	15, 30	30, 100	
Max. operating time sec	0.1	0.1	0.1	0.1	0.1	
Max. operating time sec	0.1	0.1	V. I	U. I	0.1	
JIS C 8201-2-2 Ann.2 AC 240V	2.5	5			5	
	2.5	5		2.5	5	
I _{cu} (sym) 200V 100/200V	2.5	5	=	5	5	
100/200V 100V	2.5	5	5	<u> </u>	5	
■External dimensions, mm	<u> </u>	-	-	-		
,	50 75	50 75	25	25	75	
a dc b	96	96	95	95	96	
	60	60	60	60	60	
	75	75	77	77	75	-
Weight (● marked standard type) kg	0.4 0.5	0.4 0.5	0.15	0.16	0.5	
Connections and Mountings	*** ***					
Front-connected (FC) Terminal screws	45	45	48	48	•	 -
DIN rail mount	O 52	0 52	_	=	<u> </u>	
Clip-in chassis mount	•	•	•	•	•	
Accessories (optional) Symbol	I ———					 -
a Auxiliary switch A X		•	● 88	● 88	•	
Alarm switch A L	•	•	■ 88	■ 88	•	
Test lead T L	•	•	_	_	•	
Leakage alarm switch LA	_	_	_	_	_	
Megger test switch MG	● ③	● ③	_	_	● ③	
™ Toggle holder H H	•	•	•	•	•	
Toggle lock H L			_	_	=	
E Tanala aan		_	•	•	_	
Terminal cover For front-connected C F Terminal block for lead T F	•	•	_	_	•	
Terminal block for lead T F	•	•	_		•	
CE marking	Non	Non	Non	Non	Non	
Earth leakage trip mechanism	Electronic	Electronic	Electronic	Electronic	Electronic	
Overcurrent trip mechanism	Hydraulic-magnetic type	Hydraulic-magnetic type	Thermal-magnetic	Thermal-magnetic	Hydraulic-magnetic type	
Earth leakage indication	Mechanical button	Mechanical button	Mechanical button	Mechanical button	Mechanical button	
Colour of cover	Grey	Grey	Black	Black	Grey	
Trip button (Colour)	Yes (Red)	Yes (Red)	Non	Non	Yes (Red)	 -
Reverse connection	Yes	Yes	Non	Non	Yes	
Page of characteristics and outline dimensions	7-220	7-220	7-224	7-224	7-222	
Notes:	-					 -

Notes:

- Standard. This configuration used unless otherwise specified.
 Optional standard. Specify when ordering.
 "yes" or "available".
 "no" or "not available".
- (4): When applying 3-pole type to a 1ø2W circuit, use both ends and do not use the central pole.
- (§): When applying 3-pole type to a 1ø3W circuit, apply voltage to both ends and connect the neutral wire to the central pole.
- 🔞 : If the megger test switch is mounted, the auxiliary switch cannot be mounted. 🔞 : This is 2-pole 1-element. 🔞 : A wire clamping terminal is provided.
- ${\small \circledR}$: Distribution board branch conductors and busbar conductor supports are available. (Optional)
- SPlease order the DIN rail mounting bracket separately. (Order type: 50EE-RAIL, 1 set per unit)
- Remarks: TZ-51C and TZ-52C types are compatible with TB-51C and TB-52C.