

## **Ratings and Specifications**

## **Earth Leakage Circuit Breakers**

## 16 High-fault level series (Harmonics/surge with countermeasure)

Former sizes (A)		100	105	005	050	400	 	
Frame size (A)		100	125	225	250	400	 _	_
Type		ZS100-GF	ZS125-GF	ZS225-GF	ZS250-GF	ZS400-GF		
Number of poles	1~2\M	3 4 —	3 4	3 4	3 4	3 4	 	
Phase and wires	1ø2W (4)		<u> </u>		<u> </u>	<u> </u>	 	
	3ø3W, 1ø3W (5)	• -	• –	• -		<u> </u>	 	
- Datings	3ø4W	_   •	_ •	_	_	_   •	 	
Ratings						 		
Rated impulse withsta	8	8	8	8	8	 		
Rated current, A	15 50	125	125 225	250	250			
Calibrated at 40°C		20 60		150		300		
Rated operational Instantaneous tripping type		30 75		175		350	 	
	Instantaneous tripping type	40 100	100 440	200	100-440 common	400	 	
voltage AC V	Operable voltage fluctuation range V	100-440 common 80~484	100-440 common 80~484	100-440 common 80~484		100-440 common 80~484	 	
	Time delay tripping type				80~484		 	
Data da constituito	Operable voltage fluctuation range V	100-440 common 80~484	100-440 common	100-440 common 80~484	100-440 common	100-440 common 80~484	 	
Rated sensitivity	Instantaneous tripping type		80~484		80~484		 	
current mA		30	30	30	30	30	 	
	<del></del>	100/200/500 selectable	100/200/500 selectable		100/200/500 selectable	100/200/500 selectable	 	
	Max. operating time sec		0.1	0.1	0.1	0.1	 	
	Time delay tripping type	100/200/500 selectable	100/200/500 selectable		100/200/500 selectable	100/200/500 selectable	 	
	Max. operating time sec		0.45/1.0/2.0 selectable	0.45/1.0/2.0 selectable	0.45/1.0/2.0 selectable	0.45/1.0/2.0 selectable	 	
	Non-operating time sec	0.1/0.5/1.2 or more	0.1/0.5/1.2 or more	0.1/0.5/1.2 or more	0.1/0.5/1.2 or more	0.1/0.5/1.2 or more	 	
Rated breaking cap		F0			05	 		
JIS C 8201-2-2 Ann.2	AC 440V	50	50	50	50	65		
I <sub>cu</sub> (sym)	415V	65	65	65	65	70		
	240V	85	85	85	85	100	 	
	100V	85	85	85	85	100	 	
External dimension				105	105		 	
—a —	<u>a</u> a	90 120	90 120	105 140	105 140	140 185	 	
	b	155	155	165	165	260	 	
	·	68	68	68	68	103		
	L d	92	92	92	92	145	 	
Weight ( marked sta	1.3 1.7	1.3 1.7	1.7 2.1	1.7 2.1	5.2 6.6	 		
■Connections and M	Nountings						 	
Front-connected (FC)	Terminal screws	<u> </u>	•	<u> </u>	<u> </u>	<u> </u>	 	
	With extension bars	O 53	O 53	O 53	O 53	0	 	
Rear-connected (RC)	Flat bar studs	0	0	0	0	0		
Plug-in (PM) For switch							 	
	Standard (PMC)	_	_	_	_	_		
For dist	ribution boards (PMC)	_	_					
	(PMD)	_	_					
Flush-mounted (FP)	With flat bar studs	0	0	0	0	0		
Draw-out type (DR)		_	_	_	_	_		
TemPlug70 (PG)		0 –	0 -	0 -	0 -	0 -		
DIN rail mount		O (1)	011					
Accessories (option	nal) Symbol							
Auxiliary switch	ΑX							
Alarm switch	AL		•					
Shunt trips	SH	_	_	_	_	_		
Undervoltage trips	UV	_	_	_	_	_		
Test lead	TL	•	•	•	•	•		
Leakage alarm sw	ritch LA	_	_	_	_	_		
Megger test switch	n MG	•	•	•	•	•		
Motor operator	MC	•	•	•	•	•		
External operating Br	reaker-mounted H B	•	•	•	•	•	 	
handle Do	oor-mounted (variable depth) H P	•	•	•	•	•		
Tanala automaian	НА		_		=	•	 	
0	ide type M S	•	•	•	•	•		
2 interlock Lir	nk type M L	_	_	_	_	_	 	
	ire type MW		_	_			 	
Toggle holder Toggle lock Torminal cover Fe	НН	•	•	•	•		 	
Toggle lock	HL	•	•	•	•	•	 -	
Terminal cover Fo		•	•	•	•	•	 	
	or rear-connected and plug-in C R	•	•	•	•	•		
Terminal block for l		•	•	•	•	•	 	
Door flange	D F	=		=		<u> </u>	 	
CE marking		Non	Non	Non	Non	Non	 	
Earth leakage trip mechanism (Current operation type)		Electronic	Electronic	Electronic	Electronic	Electronic	 	
Overcurrent trip mechanism		Thermal-magnetic	Thermal-magnetic		Thermal-magnetic	Thermal-magnetic (adjustable)	 	
Earth leakage indicat	Mechanical button	Mechanical button		Mechanical button	Mechanical button			
Colour of cover		Grey Blue	Grey Blue	Grey Blue	Grey Blue	Grey Blue	 	
Trip button (Colour)		Yes (Red)	Yes (Red)	Yes (Red)	Yes (Red)	Yes (Red)	 	-
Suitability for isolation	<u> </u>	Yes (neu)	Yes	Yes	Yes	Yes	 	
Reverse connection		Yes ②	Yes ②	Yes ②	Yes ②	Yes 72	 	
Page of characteristics and outline dimensions		7-188	7-190	7-194	7-196	7-198	 	
	/-100	/-130	/-134	/-130	/-130	 		
Notes:								

- : Standard. This configuration used unless otherwise specified. ○: Optional standard. Specify when ordering. ●: "yes" or "available".
- : "no" or "not available". ① : Please order the DIN rail adapter separately. See page 6-156. ④ : When applying 3-pole type to a 1o2W circuit, use both ends and do not use the central pole.
- When applying 3-pole type to a 163W circuit, apply voltage to both ends and connect the neutral wire to the central pole.
   For the extension bars, please place the order separately in parts.
- ②: There are some limitations. See page 5-23 for details.