



## DZ935 series MCB

### Overview

The DZ935 series marine miniature circuit breakers (for short "breakers") used in marine power systems with AC 50Hz or 60Hz and rated operating voltages of 400V and below for terminal power distribution, lighting lines and small load equipment short circuit and undervoltage protection, and infrequently switching on and off circuits under normal operating conditions.

Breakers has 1P, 2P, 3P, 4P, 1P+N and RCBO, trip-unit ratings from 1A to 63A in a variety of sizes. Breakers have a high rated short-circuit breaking capacity, with J-type (basic type), B-type (standard type) and G-type (high-score break type) three kinds of break capability for selection, the highest rated short-circuit break capability (Icu) up to 15kA.

Breakers meet the standard: IEC60947-1 and GB/T14048.1, IEC60947-2 and GB/T14048.2, IEC60947-4 and GB/T14048.4, IEC 61009-1 and GB/T16917.1, IEC60898-1 and GB/T10963.1, CCS rules.

Breakers have got the domestic and foreign classification society certification.



### Product features

Cable size reach to 35mm<sup>2</sup>, insulation plate design is more safety; tunnel type terminals, easy for wire connection and adapt to U shape busbar; DIN installation and can be replaced quickly; There is sink design on the cover for heat dissipation; Contact position indicated window, Green is open, red is close; Long life cycle, without current is 20000 cycles, with current is 10000 cycles; All kinds of accessories.



1P+N width only 18mm, small size; Can open L and N pole together, more safety; Contact position indicated window, Green is open, red is close; Long life cycle, without current is 20000 cycles, with current is 10000 cycles.



RCBO is 2P breaker and with electrical-magnetic sensor, 36mm width; RCBO functionally independent of line voltage and Free from electromagnetic interference; Both two Poles have short circuit protection and can't close with Residual Current protection function failure. Have the contacts ON and OFF position indicated window. Customer can easily know the contact position.



### Main performance indicators

Breaker type	DZ935-63				DZ935-32	DZ935L-32		
Inm (A)	63				32	32		
Pole	1P	2P	3P	4P	1P+N	2P (RCBO)		
Rated Current In (A)	1,2,3,4,6,10,13,16,20,25,32,25,32,40,50,63				1,2,3,4,6,10,13,16,20,25,32	6,10,13,16,20,25,32		
F (Hz)					50/60			
Ui (V)					500			
Ue (V)	400		230		230	230		
J type	Rated ultimate short-circuit breaking capacity Icu (kA)	6						
	Rated operating short-circuit breaking capacity Ics (kA)	6						
B type	Rated ultimate short-circuit breaking capacity Icu (kA)	10		--		10		
	Rated operating short-circuit breaking capacity Ics (kA)	7.5		--		7.5		
G type	Rated ultimate short-circuit breaking capacity Icu (kA)	15		15 (1A-3A)		—		
	Rated operating short-circuit breaking capacity Ics (kA)	7.5		15 (1A-3A)		—		
life cycle with current		10000						
life cycle without current		20000						
Trip unit		TMTU			TMTU+RCBO (30mA)			
Acc.	AUX. contact	2 (left side)						
	Alarm. contact	1 (left side)						
	shunt release	Us: AC380V、AC220V (left side)						
	under voltage	Us: AC220V (left side)						
	Motor mechanism	Us: AC220V (left side)						
	RCD	I <sub>Δn</sub> 30mA (right side)						

Continued

Breaker type		DZ935-63				DZ935-32		DZ935L-32	
Dim.	Wide	18 36 54 72				18		36	
	High	89				86			
	Depth	69				68			
Weight		0.13	0.25	0.38	0.5	0.13		0.24	

## ► Model naming



Note:

1. Frame size rated current: Breaker-63A, 1P+N-32A, RCBO-32A.
2. Breaking capacity code: High breaking capacity G, 15kA; Standard breaking capacity B, 10kA; Basic breaking capacity J, 6kA;
3. Accessories: 01 alarm contact, 02 Aux. contact, 10 shunt release, 20 Under voltage release.
4. Protection characteristic: C Distribution protection, D Motor protection.