

DZ47sGQF (R) self-compound overvoltage and undervoltage protector

Product overview

Main function

Overvoltage protection, undervoltage protection, automatic reset

Meet the standard

JB/T 12762-2015



Main characteristics

Rated operating voltage (V)	1P+N: AC230V 3P+N: AC400V
Rated current (A)	1P+N: 20/25/32/40/50/63/80A 3P+N: 20/25/32/40/50/63/80/100A
Rated frequency (Hz)	50Hz
Number of poles	1P+N, 3P+N
Breaking capacity	20-80A: 6kA; 100A: 4.5k

Product selection

Product name	Number of poles	Rated current	Connection mode
DZ47sGQF/GQR	6		
DZ47sGQF: Upper line	acquiesce: 1P+	20: 20A 50: 50A	Default: left zero right fire
DZ47sGQR: lower line	N6: 3P+N	25: 25A 63: 63A 32: 32A 80: 80A 40: 40A 100: 100A	L: left fire right zero

Note: 1P+N: 20-80A; 3P+N: 20-100A
Model Example: DZ47SGQF40:
DZ47sGQF Upper line 1P+N 40A

DZ47sGQF (R) Self compound over and under voltage

Material number	Material description	Material number	Material description
DZ47SGQF20	DZ47sGQF 1P+N 20A Up and down	DZ47SGQF20L	DZ47sGQF 1P+N 20A Up and down left fire right zero
DZ47SGQF25	DZ47sGQF 1P+N 25A Up and down	DZ47SGQF25L	DZ47sGQF 1P+N 25A Up and down left fire right zero
DZ47SGQF32	DZ47sGQF 1P+N 32A Up and down	DZ47SGQF32L	DZ47sGQF 1P+N 32A Up and down left fire right zero
DZ47SGQF40	DZ47sGQF 1P+N 40A Up and down	DZ47SGQF40L	DZ47sGQF 1P+N 40A Up and down left fire right zero
DZ47SGQF50	DZ47sGQF 1P+N 50A Up and down	DZ47SGQF50L	DZ47sGQF 1P+N 50A Up and down left fire right zero
DZ47SGQF63	DZ47sGQF 1P+N 63A Up and down	DZ47SGQF63L	DZ47sGQF 1P+N 63A Up and down left fire right zero
DZ47SGQF80	DZ47sGQF 1P+N 80A Up and down	DZ47SGQF80L	DZ47sGQF 1P+N 80A Up and down left fire right zero
DZ47SGQF620D	DZ47sGQF 3P+N 20A Up and down	DZ47SGQF620L	DZ47sGQF 3P+N 20A Up and down left fire right zero
Z47SGQF625DZ	DZ47sGQF 3P+N 25A Up and down	DZ47SGQF625L	DZ47sGQF 3P+N 25A Up and down left fire right zero
47SGQF632DZ4	DZ47sGQF 3P+N 32A Up and down	DZ47SGQF632L	DZ47sGQF 3P+N 32A Up and down left fire right zero
7SGQF640DZ47	DZ47sGQF 3P+N 40A Up and down	DZ47SGQF640L	DZ47sGQF 3P+N 40A Up and down left fire right zero
SGQF650DZ47S	DZ47sGQF 3P+N 50A Up and down	DZ47SGQF650L	DZ47sGQF 3P+N 50A Up and down left fire right zero
GQF663DZ47SG	DZ47sGQF 3P+N 63A Up and down	DZ47SGQF663L	DZ47sGQF 3P+N 63A Up and down left fire right zero
QF680DZ47SGQ	DZ47sGQF 3P+N 80A Up and down	DZ47SGQF680L	DZ47sGQF 3P+N 80A Up and down left fire right zero
F6100DZ47SGQ	DZ47sGQF 3P+N 100A Up and down	DZ47SGQF6100L	DZ47sGQF 3P+N 100A Up and down left fire right zero
R20	DZ47sGQR 1P+N 20A Down and up	DZ47SGQR20L	DZ47sGQR 1P+N 20A Down and up left fire right zero
DZ47SGQR25	DZ47sGQR 1P+N 25A Down and up	DZ47SGQR25L	DZ47sGQR 1P+N 25A Down and up left fire right zero
DZ47SGQR32	DZ47sGQR 1P+N 32A Down and up	DZ47SGQR32L	DZ47sGQR 1P+N 32A Down and up left fire right zero
DZ47SGQR40	DZ47sGQR 1P+N 40A Down and up	DZ47SGQR40L	DZ47sGQR 1P+N 40A Down and up left fire right zero
DZ47SGQR50	DZ47sGQR 1P+N 50A Down and up	DZ47SGQR50L	DZ47sGQR 1P+N 50A Down and up left fire right zero
DZ47SGQR63	DZ47sGQR 1P+N 63A Down and up	DZ47SGQR63L	DZ47sGQR 1P+N 63A Down and up left fire right zero
DZ47SGQR80	DZ47sGQR 1P+N 80A Down and up	DZ47SGQR80L	DZ47sGQR 1P+N 80A Down and up left fire right zero
DZ47SGQR620D	DZ47sGQR 3P+N 20A Down and up	DZ47SGQR620L	DZ47sGQR 3P+N 20A Down and up left fire right zero
Z47SGQR625DZ	DZ47sGQR 3P+N 25A Down and up	DZ47SGQR625L	DZ47sGQR 3P+N 25A Down and up left fire right zero
47SGQR632DZ4	DZ47sGQR 3P+N 32A Down and up	DZ47SGQR632L	DZ47sGQR 3P+N 32A Down and up left fire right zero
7SGQR640DZ47	DZ47sGQR 3P+N 40A Down and up	DZ47SGQR640L	DZ47sGQR 3P+N 40A Down and up left fire right zero
SGQR650DZ47S	DZ47sGQR 3P+N 50A Down and up	DZ47SGQR650L	DZ47sGQR 3P+N 50A Down and up left fire right zero
GQR663DZ47S	DZ47sGQR 3P+N 63A Down and up	DZ47SGQR663L	DZ47sGQR 3P+N 63A Down and up left fire right zero
GQR680DZ47S	DZ47sGQR 3P+N 80A Down and up	DZ47SGQR680L	DZ47sGQR 3P+N 80A Down and up left fire right zero
GQR6100	DZ47sGQR 3P+N 100A Down and up	DZ47SGQR6100L	DZ47sGQR 3P+N 100A Down and up left fire right zero

Default: left zero right fire L: left fire right zero



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Technical parameter

Electrical characteristic

Rated operating voltage U_e	1P+N	(V)	230 AC	Overvoltage recovery value (L-N)	$\leq 253V$
	3P+N	(V)	400 AC	Undervoltage action Setting (L-N)	$AC160\pm 5V$
Rated current I_n	1P+N	(V)	20/25/32/40/50/63/80A	Undervoltage trip time	0.6~5s
	3P+N	(V)	20/25/32/40/50/63/80/100A	Undervoltage recovery value (L-N)	$\geq 195V$
Meet the standard	JB/T 12762-2015			Self-reset delay	$25\pm 5s$
Voltage frequency	50Hz			Rated short-circuit current capacity	20-80A; 6kA; 100A; 4.5kA 4kV
Overpressure action setting value	(L-N)	$AC275\pm 5V$		impulse withstand voltage U_{imp}	
Overvoltage trip time	(L-N)	$3\sim 15s (275V)$; $1\sim 3s (300V)$		Maximum single-phase protection voltage	450V
		$0.25\sim 0.75s (350V)$; $0.1\sim 0.2s (400V)$		Electrical life	10000次

Mechanical characteristic

Operating ambient temperature	$-20^{\circ}C \sim +60^{\circ}C$	Resistance to moisture and heat	When the temperature is 40, the relative humidity of the air is not more than 50%. When the temperature is 20, the relative humidity of the air is 90%
Storage ambient temperature	$-40^{\circ}C \sim +85^{\circ}C$	Class of protection	Body: IP20 Installed in the distribution box: IP40
Altitude	Not more than 2000m		

Installation characteristics

Connection mode	Up and down(DZ47sGQF)	Rated torque	1P+N: 2.5N.m
	Bottom in top out (DZ47sGQR) Left zero right fire, left fire right zero		3P+N: 3.5N.m
Connection capability	1P+N: 25mm ² or less	installation environmental	Where there is no significant vibration or
	3P+N: 35mm ² or less	pollution level	shock2
Installation mode	DIN standard rail mounting		

Outline and mounting dimensions

Dimension drawing

