



# Devices and Application

## Reyrolle 7SG68 Overcurrent Protection Device

### Standard Variants


2.1

Standard Variants for Reyrolle 7SG68		
7SG6855-6AB11-0AA0	8 BI, 4 BO, 4 I Housing width 115 x 115 x 115 mm 8 binary inputs 4 binary outputs (1 changeover, 3 make) 4 current transformer inputs Communication: 1 RS485 1 trip-circuit supervision interface	
7SG6855-6AB11-0BA0	8 BI, 4 BO, 4 I, 3 V Housing width 115 x 115 x 115 mm 8 binary inputs 4 binary outputs (1 changeover, 3 make) 4 current transformer inputs 3 voltage transformer inputs Communication: 1 RS485 1 trip-circuit supervision interface	
7SG6855-6AB11-0CA0	8 BI, 4 BO, 4 I, 1 wireless temperature receiver port Housing width 115 x 115 x 115 mm 8 binary inputs 4 binary outputs (1 changeover, 3 make) 4 current transformer inputs 1 wireless temperature receiver port Communication: 1 RS485 1 trip-circuit supervision interface	
7SG6855-6AB11-0JA0	8 BI, 4 BO, 4 I, 3 V, 1 HSBO, 1 wireless temperature receiver port Housing width 115 x 115 x 115 mm 8 binary inputs 4 binary outputs (1 changeover, 3 make) 4 current transformer inputs 3 voltage transformer inputs 1 high speed binary output for ARC 1 wireless temperature receiver port Communication: 1 RS485 1 trip-circuit supervision interface	

# Devices and Application

## Reyrolle 7SG68 Overcurrent Protection Device

2.1

7SG6855-6AB11-0KA0	8 BI, 4 BO, 4 I, 3 V, 1 AFD, 1 HSBO, 1 wireless temperature receiver port	 <p>The image shows a Siemens 7SG68 Overcurrent Protection Device. It is a blue, rectangular unit with a control panel on the front. The panel features a small orange LCD display showing current values: Ia = 400 A, Ib = 400 A, Ic = 400 A, and In = 0 A. To the right of the display are several indicator lights and buttons labeled 'Run', 'Error', 'Trip', 'Alarm', 'Pickup', and 'Lockout'. Below the display is a keypad with directional arrows and a '0/M' button. A QR code is visible on the right side of the panel. The device is mounted on a dark grey metal housing.</p>
	<p>Housing width 115 x 115 x 115 mm</p> <p>8 binary inputs</p> <p>4 binary outputs (1 changeover, 3 make)</p> <p>4 current transformer inputs</p> <p>3 voltage transformer inputs</p> <p>1 ARC line sensor interface</p> <p>1 high speed binary output for ARC</p> <p>1 wireless temperature receiver port</p> <p>Communication: 1 RS485</p> <p>1 trip-circuit supervision interface</p>	

**Table 2.1/2** Standard Variants for Reyrolle 7SG68

The technical data of the devices can be found in the user manual.

# Devices and Application

## Reyrolle 7SG68 Overcurrent Protection Device

### Functions, Application Templates

ANSI	Functions (MLFB Code Position 14)	A	B	C	J	K
27	Undervoltage protection – 3-phase	–	■	–	■	■
46	Negative sequence overcurrent protection	■	■	■	■	■
46BC	Broken conductor detection	■	■	■	■	■
49TS	Temperature sensor supervision	–	–	■	■	■
50	Overcurrent – phase	■	■	■	■	■
50OL	Overload current protection – phase	■	■	■	■	■
50AFD	Arc flash detection (point sensor)	–	–	–	■	■
50AFD	Arc flash detection (line sensor)	–	–	–	–	■
50BF	Circuit-breaker failure protection – 3-pole	■	■	■	■	■
50N	Earth fault – measured /calculated	■	■	■	■	■
50GI	Intermittent earth fault	■	■	■	■	■
50HS	High speed overcurrent – phase	■	■	■	■	■
50SOTF	Switch onto fault	■	■	■	■	■
51	Time-delayed overcurrent – phase	■	■	■	■	■
51CL	Cold load overcurrent – phase	■	■	■	■	■
51N	Time-delayed earth fault – measured/calculated	■	■	■	■	■
52	Circuit-breaker control	■	■	■	■	■
59	Overvoltage protection – 3-phase	–	■	–	■	■
59N	Neutral voltage displacement	–	■	–	■	■
74TC	Trip-circuit supervision	■	■	■	■	■
79	Automatic reclosing (3 shots)	■	■	■	■	■
81HB2	Inrush current detection block 50/51	■	■	■	■	■
86	Lockout	■	■	■	■	■
	Measured values	■	■	■	■	■
	Switching-statistic counters	■	■	■	■	■
	External trip initiation	■	■	■	■	■
	Control	■	■	■	■	■
	Fault recording of analog and binary signals	■	■	■	■	■
	System log 200	■	■	■	■	■
	Trip log 20	■	■	■	■	■
	Fault record 5	■	■	■	■	■
	Event log 500	■	■	■	■	■
	Security log 2048	■	■	■	■	■
	Monitoring and supervision	■	■	■	■	■
	Setting groups 4	■	■	■	■	■
	Changeover of setting group	■	■	■	■	■
	Binary inputs (max)	8	8	8	8	8
	Binary outputs (max) incl. healthy contact	4	4	4	4	4
	Arc flash line sensor inputs (AFD)	0	0	0	0	1
	Arc flash point sensor inputs (AFD)	0	0	0	8	8
	High speed binary outputs (HSBO)	0	0	0	1	1
	Current inputs	4	4	4	4	4
	Voltage inputs	0	3	0	3	3
	Size	115 x 115 x 115 mm				
	LCD	128 x 64 2"				
	Push buttons	8				
	LEDs	6				
	Power supply unit rated voltages	DC 24 to 220 V AC 24 to 220 V				
	Front protective cover	Order option				
	User selectable languages: English, Spanish, Turkish, Chinese	■	■	■	■	■

2.1

# Devices and Application

## Reyrolle 7SG68 Overcurrent Protection Device

ANSI	Functions (MLFB Code Position 14)	A	B	C	J	K
	IEC 60870-5-103	■	■	■	■	■
	Modbus RTU	■	■	■	■	■
	Time synchronization: Modbus RTU, IEC 60870-5-103	■	■	■	■	■
	Security FW signature, security hash password	■	■	■	■	■

2.1

**Table 2.1/1** Reyrolle 7SG68 – Functions and Application Templates



**NOTE**

■ – Included in standard ordering code