78 System Separation Protection

POWER SYSTEM PROTECTION EQUIPMENT



The System Separation Protection Device is a new-generation product independently developed and manufactured by our company. It is suitable for substations or interconnections operating with small power sources connected to medium- and low-voltage grids. Product Functions (ANSI) 81, 27, 59, 78, 59N, 50, 51 Communication Mode Optional: RS-485, CAN bus, Ethernet, IEC 60870-5-103 (IEC-103)

KEY FEATURES

- Frequency relay |81
- Undervoltage relay|27
- Overvoltage relay |59
- System separation relay |78
- Neutral overvoltage relay|59N
- Instantaneous Overcurrent |50
- Time Delayed Overcurrent|51

SETTING TABLE

No.	Definition	Display	Setting Range	Default Value	Main Program	Remarks
1	Control Word 1	0000-FFFF	0000 to FFFF	0x0000	–	–
2	Control Word 2	0000-FFFF	0000 to FFFF	0x0000	–	–
3	Control Word 3	0000-FFFF	0000 to FFFF	0x0000	–	–
4	Low Frequency Start-up Delay	0.1-120.00s	0.1 to 120.00 s	1.00 s	–	–
5	Low Frequency Stage 1 Delay	0.1-120.00s	0.1 to 120.00 s	1.00 s	–	–
6	Low Frequency Stage 2 Delay	0.1-120.00s	0.1 to 120.00 s	1.00 s	–	–
7	Over Frequency Stage 1 Delay	0.1-120.00s	0.1 to 120.00 s	1.00 s	–	–
8	Over Frequency Stage 2 Delay	0.1-120.00s	0.1 to 120.00 s	1.00 s	–	–
9	Under Voltage Start-up Delay	0.1-120.00s	0.1 to 120.00 s	1.00 s	–	–
10	Under Voltage Stage 1 Protection Delay	0.1-120.00s	0.1 to 120.00 s	1.00 s	–	–
11	Under Voltage Stage 2 Protection Delay	0.1-120.00s	0.1 to 120.00 s	1.00 s	–	–
12	Over Voltage Stage 1 Protection Delay	0.1-120.00s	0.1 to 120.00 s	1.00 s	–	–
13	Over Voltage Stage 2 Protection Delay	0.1-120.00s	0.1 to 120.00 s	1.00 s	–	–
14	Over Current Stage 1 Delay	0-120.00s	0 to 120.00 s	1.00 s	–	–
15	Over Current Stage 2 Delay	0-120.00s	0 to 120.00 s	1.00 s	–	–
16	Over Current Stage 3 Delay	0-120.00s	0 to 120.00 s	1.00 s	–	–

No.	Definition	Display	Setting Range	Default Value	Main Program	Remarks
17	Zero Voltage Stage 1 Protection Delay	0.1-120.00s	0.1 to 120.00 s	5.00 s	–	–
18	Zero Voltage Stage 2 Protection Delay	0.1-120.00s	0.1 to 120.00 s	5.00 s	–	–
19	Reserved	0.1-120.00s	0.1 to 120.00 s	5.00 s	–	–
20	Reserved	0.1-120.00s	0.1 to 120.00 s	5.00 s	–	–
21	Low Frequency Start-up Setting Value	45.00-50.00Hz	45.00 to 50.00 Hz	49.50 Hz	–	–
22	Low Frequency Stage 1 Protection Setting Value	45.00-50.00Hz	45.00 to 50.00 Hz	49.00 Hz	–	–
23	Low Frequency Stage 2 Protection Setting Value	45.00-50.00Hz	45.00 to 50.00 Hz	48.50 Hz	–	–
24	Over Frequency Stage 1 Protection Setting Value	50.00-55.00Hz	50.00 to 55.00 Hz	51.00 Hz	–	–
25	Over Frequency Stage 2 Protection Setting Value	50.00-55.00Hz	50.00 to 55.00 Hz	52.00 Hz	–	–
26	Frequency Change Rate (Blocking Setting Value), df/dt2	0.00Hz/s-20.00Hz/s	0.00 Hz/s to 20.00 Hz/s	1.00 Hz/s	–	• Blocking is triggered when exceeding df/dt, and alarm “Frequency change is excessive” is generated

ORDERING INFORMATION

MOQ	LEAD TIME	TRADE TERMS	PAYMENT	WARRANTY
1 unit	7-15 working days	EXW / FOB / CIF / DDU	T/T, L/C, WU, PayPal	12 months