

COMBINED OVERCURRENT AND EARTH FAULT RELAY

Model No. SD1000A



Features:

- Microprocessor based numerical relay
- Current measurement based on fundamental frequency
- Three-phase, low-set overcurrent
- Three-phase, high-set overcurrent
- Low-set earth-fault
- High-set earth-fault
- Definite time for low-set and high-set
- Five selectable IDMT characteristic curves
- Local display of measured and set values
- Programmable relay outputs
- Non-volatile fault values recording

Description

SANDA's combined overcurrent and earth fault protection delivers comprehensive protection schemes for medium and low voltage applications. These cost-effective protective devices include three phase IDMT elements and definite time elements for overcurrent and earth fault protection.

Application

Feeder incoming protection

Outgoing protection

Busbar protection



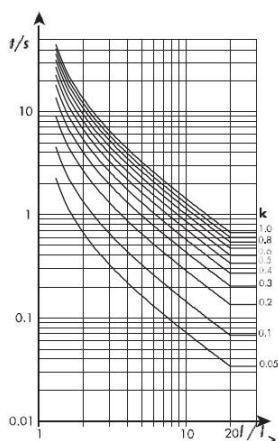
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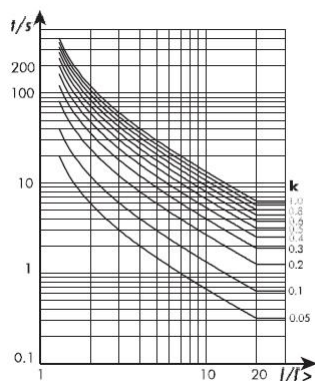
Technical Data

RATINGS:		OUTPUT CONTACTS:		OVERCURRENT ELEMENT:	
Rated current In:	5 A	Trip Contacts (R1 & R2)		Low-set setting $I >$:	: 0.5 A to 10.0 A, step 0.05 A : 10% to 200%, step 1%
Rated frequency:	50 or 60 Hz	Rated voltage:	250V AC / DC	Low-set time multiplier ($kt >$):	0.05 to 1.0, step 0.01
Burden:	< 0.3 VA at In	Contact rating:	5 A	Low-set definite time ($t >$):	0.05 to 99s
Thermal withstand:	4 x In continuous	Expected electrical life:	100,000 operations at rated current	High-set ($I >>$)	: 0.5 A to 99.9 A, step 0.10 A or disable : 10% to 1998%, step 2%
AUXILIARY SUPPLY:		Expected mechanical life:	5 x 10 ⁶ operations	High-set delay time ($t >>$):	0.05 sec to 2.5 sec, step 0.01
SD1000A-240A:	198~265 V AC	EARTH-FAULT ELEMENT:		ENVIRONMENTAL CONDITIONS:	
SD1000A-240AD:	85~265 V AC 110~340 V DC	Low-set setting $I o >$:	: 0.10 A to 5.0 A, step 0.05 A : 2% to 100%	Temperature:	-5°C to +55°C
Supply frequency:	50 or 60 Hz	Low-set time multiplier ($kt o >$):	0.05 to 1.0, step 0.01	Humidity:	56 days at 93% RH and 40°C non-condensing
V A rating:	3 VA typical	Low-set definite time ($t o >$):	0.05 to 99s	MECHANICAL:	
ACCURACY:		High-set ($I o >>$)	: 0.10 A to 50 A, step 0.10 A or disable : 2% to 1000%, step 2%	Mounting:	Panel mounting
Protection thresholds:	± 5%	High-set delay time ($t o >>$):	0.05 sec to 2.5 sec, step 0.01	Dimension (mm):	96(w) x 96(h) x 110(d)
Time delay:	± 5% with a minimum of 50 ms			Approximate weight:	0.8 kg

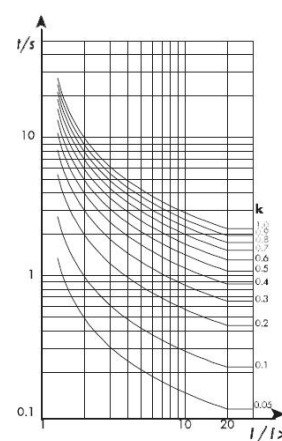
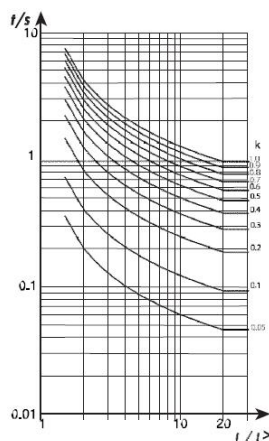
Very Inverse



Long Time Inverse



Normal Inverse 1.3/10



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Typical Application Diagrams

1	2	3	4	5	6	7	8
L	N	DOE			D.J2		
L1	L1	L2	L2	L3	L3	L0	L0
9	10	11	12	13	14	15	16

Case Dimensions

