

TIME-LAG RELAYS (I)

Model	TDF-2	TDF-4	TDF-22
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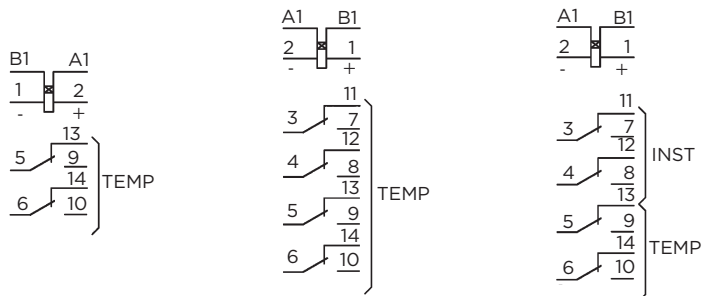
Applications

Electrical command timing

Construction characteristics

Timing Contacts no.	2 Changeover	4 Changeover	2 Changeover
Instantaneous contact no.	0 Changeover	0 Changeover	2 Changeover

Connections



Options

With OP options

Weight (g)	265
Dimensions (mm)	42,5 x 50,4 x 96,6

Coil characteristics

Standard voltages ⁽¹⁾	24, 48, 72, 96, 110, 125, 250 ⁽⁴⁾ Vdc/Vac (50-60 Hz)
Voltage range	+25% -30% U _N (except range 250) ⁽⁴⁾
Pick-up voltage	See power supply-temperature charts for time-lag relays
Release voltage	
Consumptions In permanence (U _N)	≤3,2 W ≤4 W ≤5,5 W

Operating time

Time range	between 0,03 s y 99 h
Pick-up time	< 23 ms
Drop-out time	< 40 ms

Contacts

Contact type	2 Changeover	4 Changeover
Contact material	AgNi (FF Range)	
Contact resistance ⁽²⁾	≤30 mΩ / ≤15 mΩ (FF Range)	
Distance between contacts	1,2 mm	
Permanent current	10 A	
Instantaneous current	30 A 0 A during 1s / 80 A during 200 ms / 200 A during 10 ms	
Max. making capacity	40 A / 0,5 s / 110 Vdc 30 A / 1 s / 36 Vdc / 30.000 operations (1 op / 15 s)	
Breaking capacity	See breaking capacity curves (Contact configuration type B)	
Max. breaking capacity	See value for 50,000 operations	
U _{max} opened contact	250 Vdc / 400 Vac	

Performance data

Mechanical endurance	10 ⁷ operations
Operating temperature	-40°C +70°C
Storage temperature	-40°C +70°C
Max. operating humidity	93% / +40°C
Operating altitude ⁽³⁾	<2000 m

⁽¹⁾ Other voltage upon request
⁽²⁾ Guarantee data for relays just manufactured

⁽³⁾ Ask for higher altitudes
⁽⁴⁾ Voltage not recognized by UL

