

TIME-LAG RELAYS (I)

Model	TDF-2	TDF-4	TDF-22
			6566 6666





Applications

Electrical command timing

		Liectrical command timing		
Construction characteristics				
Timing Contacts no.	2 Changeover	4 Changeover	2 Changeover	
Instantaneous contact no.	0 Changeover	0 Changeover	2 Changeover	
Connections	B1 A1 1 2 + 5 9 14 6 10	A1 B1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	A1 B1 2 1 + 11 3 7 12 4 8 13 5 9 14 6 10	
Options	With OP options			
Weight (g)	265			
Dimensions (mm)		42,5 x 50,4 x 96,6		
Coil				
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⁾ : +10% -20%			
Pick-up voltage				
Release voltage	See power sup	oply-temperature charts for tir	ne-lag relays	
Consumptions In permanence ($U_{_{\rm N}}$)	≤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			
Max switching voltage		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			
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⁽¹⁾ Other voltage upon request ⁽²⁾ Guarantee data for relays just manufactured

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



TIME-LAG RELAYS (II)

TDJ-8 TDJ-44 Applications **Electrical Command Timing** Construction characteristics Timing Contacts no. 8 Changeover 4 Changeover 0 Changeover 4 Changeover Instantaneous contact no. Connections INST 31 31 40 40 41 50 50 TEMP <u>51</u> <u>51</u> 60 60 61 70 70 TEMP <u>71</u> 80 80 <u>81</u> Options With OP options Weight (g) 82,5 x 50,4 x 96,6 Dimensions (mm) Coil characteristics 24, 48, 72, 96, 110, 125, 250 (4) Vdc/Vac (50-60 Hz) Standard voltages(1) +25% -30% U_N (except range 250 ⁽⁴⁾: +10% -20%)) Voltage range Pick-up voltage / Release voltage See power supply-temperature charts for time-lag relays ≤7,5 W ≤10 W in permanence Operating time Time Range between 0,03 s y 99 h Pick-up time <23 ms Drop-out time <40 ms Contacts Contact type 8 Changeover Contact material AgNi (Gama FF) Contact resistance (2) ≤30 m Ω / ≤15 m Ω (FF Range) 1,2 mm Distance between contacts 10 A Permanent current 30 A 0 A during 1s / 80 A during 200 ms / 200 A during 10 ms Instantaneous current 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 Max switching voltage 250 Vdc / 400 Vac Performance data Mechanical endurance 107 operations -40°C +70°C Operating temperature -40°C +70°C Storage temperature 93% / +40°C Max. operating humidity Operating altitude(2) <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