

## T&F-Line Contactors

Auxilliary Contacts, Time Delay Blocks, Mechanical Latching Blocks

Instantaneous Time Delay Contact Characteristics						
Type		UNIT	TA1 D	TA2D	TA3D	TA8D
Number of contacts			2 or 4	2	2	2
Rated operational Voltage (Ue)	Upto	V		660		
Rated Insulation Voltage (Ui)	Conforming to IEC 60947-1	V		690		
	Conforming to CSA C22-2 No. 14	V	6 00	-	-	-
Rated Thermal current (Ith)	For ambient temperature < 40°C	A		10		
Frequency of operational current		Hz		25....400		
Minimum switching capacity	U min	V		17		
	I min	mA		5		
Short time rating	Permissible for 1s	A		100		
	500ms	A		120		
	100 ms	A		140		
Insulation resistance		MΩ		>10		
Time Delay	Ambient air temperature for operation °C			-40...+70		
(TA2D & TA3D contact blocks)	Repeat accuracy		-	± 5%	± 5%	
Accuracy only valid for setting range	Drift upto 0.5 million operating cycles			+ 15%	+ 15%	
indicated on the front face	Drift depending on ambient air temp.	-		0.25% per °C	0.25% per °C	-
Mechanical Life	In millions of operating cycles		30	5	5	30

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TA1-DN22



TA8-DN11



TA1-DN20



TA2-DT2

### Standard, instantaneous auxilliary contact blocks

No. of Contacts	Contacts		Snap-On Mounting	Catalog Number
	NO	NC		
4	2	2	To the front of TC1D09~D95 LC1F115A~800A TP1D09~D80 TP1 DC09/12/25 TCA2DN/TCA3DN	TA1DN22
	1	3		TA1DN13
	4	0		TA1DN40
	0	4		TA1DN04
	3	1		TA1DN31
2	1	1		TA1DN11
	2	0		TA1DN20
	0	2		TA1DN02
1	1	0	To the front of TC1D09~D95 TP1 D09~D80 TP1 DC09/12/25	TA1DN10
	0	1		TA1DN01
2	1	1	To the side of TC1D09~D95 TP1D09~D80 TP1 DC09/12/25 TCA2DN / TCA3DN	TA8DN11
	2	0		TA8DN20

### Pneumatic Timer Block (Front Mounted)

Description	Contacts		Range	Catalog Number
	NO	NC		
ON Delay	1	1	0.1 ... 3s	TA2-DT0
ON Delay	1	1	0.1 ... 30s	TA2-DT2
ON Delay	1	1	10 ... 180s	TA2-DT4
OFF Delay	1	1	0.1 ... 3s	TA3-DR0
OFF Delay	1	1	0.1 ... 30s	TA3-DR2
OFF Delay	1	1	10 ... 180s	TA3-DR4
On Delay	1	1	1 ... 30s*	TA2-DS2

\* With switching time of 40msec + 15 msec between the opening of NC contact to the closing of NO contact (for Star Delta application)