

Traction-specific, ring-tongue, 4-pole & relays

TBC7, TAL9...TAE75, TNL

DC controlled



TBC7-30



TAL26-40..RT



TAE50-40...TAE75-40..RT



TNL80E

4-pole contactors – Electrical ratings

AC general purpose ratings (A)	Main (power) pole Configuration		Standard auxiliary contacts		Catalog number, Standard termination	Catalog number, Ring-tongue termination
	NO	NC	NO	NC		
600V	4	-	-	-	TBC7-40-00-Δ	-
16	2	2	-	-	TBC7-22-00-Δ	-
21	4	-	-	-	TAL9-40-00-Δ	TAL9-40-00RT-Δ
	2	2	-	-	TAL9-22-00-Δ	TAL9-22-00RT-Δ
30	4	-	-	-	TAL16-40-00-Δ	TAL16-40-00RT-Δ
	2	2	-	-	TAL16-22-00-Δ	TAL16-22-00RT-Δ
40	4	-	-	-	TAL26-40-00-Δ	TAL26-40-00RT-Δ
	2	2	-	-	TAL26-22-00-Δ	TAL26-22-00RT-Δ
65	4	-	-	-	TAL45-40-00-Δ	TAL40-40-00RT-Δ
80	4	-	-	-	TAE50-40-00-Δ	TAE50-40-00RT-Δ
105	4	-	-	-	TAE75-40-00-Δ	TAE75-40-00RT-Δ

Note: devices with ring-tongue termination UL recognized

Control relays

Pilot duty ratings	Number of contacts				Catalog number, Standard termination	Catalog number, Ring-tongue termination
	1st stack		2nd stack			
	NO	NO	NO	NC		
A600, Q300	2	2	-	-	TNL22E-Δ	TNL22ERT-Δ
	3	1	-	-	TNL31E-Δ	TNL31ERT-Δ
	4	-	-	-	TNL40E-Δ	TNL40ERT-Δ
	4	-	-	4	TNL44E-Δ	TNL44ERT-Δ
	4	-	2	2	TNL62E-Δ	TNL62ERT-Δ
	4	-	4	-	TNL80E-Δ	TNL80ERT-Δ

Note: devices with ring-tongue termination UL recognized

Coil voltage selection chart (Δ)

Rated control circuit voltage U_c	TBC7	TAL9... TAL40	TAE50... TAE75	AF95B... AF300B
17...32V DC	51	51	51	51
24...45V DC	52	52	52	52
36...65V DC	54	54	54	54
42...78V DC	58	58	58	58
50...90V DC	55	55	55	55
77...143V DC	62	62	62	62
90...150V DC	66	66	66	66
152...264V DC	68	68	68	68

Example:

24V DC input voltage: TAL9-22-00-52

120V AC input voltage: TAE75-40-00RT-62

Coil operating limits

For traction-specific catalog numbers starting with "T", the coil operating limits are included in the coil voltage range ($U_{c \min}$... $U_{c \max}$).

Load / supply requirements

4-pole devices can be utilized for controlling either 2 separate loads from 2 separate supplies, or 2 separate loads from 1 supply. These devices are not suitable for controlling 1 load from 2 separate supplies. There is no mechanical overlapping (NO poles will break before NC poles make).