

TAL9 - TAE110

D.C. Operated

3 & 4 pole



TAL9-30-01

3 Pole

General purpose current		Maximum motor horsepower ratings HP				Standard auxiliary contacts		Catalog number	List price
AC1	AC3	208V	240V	480V	575/600V	N.O.	N.C.		
22	9	2	2	5	7.5	1 0	0 1	TAL9-30-10- Δ TAL9-30-01- Δ	\$ 159
25	11	3	3	7.5	10	1 0	0 1	TAL12-30-10- Δ TAL12-30-01- Δ	199
28	16	5	5	10	15	1 0	0 1	TAL16-30-10- Δ TAL16-30-01- Δ	216
45	25	7.5	10	20	25	1 0	0 1	TAL26-30-10- Δ TAL26-30-01- Δ	274
55	30	10	10	25	30	1 0	0 1	TAL30-30-10- Δ TAL30-30-01- Δ	374
60	42	10	15	30	40	1 0	0 1	TAL40-30-10- Δ TAL40-30-01- Δ	432
100	50	15	20	40	50	0 1	0 1	TAE50-30-00- Δ TAE50-30-11- Δ	388 428
125	75	25	30	60	75	0 1	0 1	TAE75-30-00- Δ TAE75-30-11- Δ	560 600
146	96	30	30	60	75	1	1	TAE95-30-11- Δ	640
160	110	30	40	75	100	1	1	TAE110-30-11- Δ	795

Δ To select a coil voltage, substitute the code from the Coil Voltage Selection Chart for the Δ .

4 Pole

Rated operational current		Maximum motor horsepower ratings HP				Standard auxiliary contacts		Catalog number	List price
AC1 0 \leq 40°C	AC1 0 \leq 55°C	208V	240V	480V	575/600V	N.O.	N.C.		
22	20	2	2	5	7.5	0	0	TAL9-40-00- Δ	\$ 162
28	25	5	5	10	15	0	0	TAL16-40-00- Δ	220
45	40	7.5	10	20	25	0	0	TAL26-40-00- Δ	282
70	60	10	10	25	30	0	0	TAE45-40-00- Δ	405
100	85	15	20	40	50	0	0	TAE50-40-00- Δ	505
125	105	25	30	60	75	0	0	TAE75-40-00- Δ	615

Δ To select a coil voltage, substitute the code from the Coil Voltage Selection Chart for the Δ .

4 Pole mounted with 2 N.O. & 2 N.C. main poles

Rated operational current		Maximum motor horsepower ratings HP				Standard auxiliary contacts		Catalog number	List price
AC1 0 \leq 40°C	AC1 0 \leq 55°C	208V	240V	480V	575/600V	N.O.	N.C.		
22	20	2	2	5	7.5	0	0	TAL9-22-00- Δ	\$ 162
28	25	5	5	10	15	0	0	TAL16-22-00- Δ	247
45	40	7.5	10	20	25	0	0	TAL26-22-00- Δ	319

Δ To select a coil voltage, substitute the code from the Coil Voltage Selection Chart for the Δ .

These contactors can be used for controlling either 2 separate circuits, i.e. 2 loads with 2 separate supplies, or 1 circuit comprising 2 separate loads with 1 single supply. When the contactor operates, there is no mechanical overlapping between the N.O. main poles and N.C. main poles: BREAK before MAKE.

NOTE: These contactors are not suitable for a reversing starter or a star-delta starter or for controlling a single load from 2 separate supplies.

Coil characteristics

No extra voltages applicable on the U_c min. - max. values of the Coil Voltage selection table.

Coil consumption at U_c max. and $q = 20$ °C:

- 9 W pull-in/holding for TBC type
- 450 W pull-in/ 7 W holding for TAE 50 and TAE 75 types
- 950 W pull-in/ 7 W holding for TAE 95 and TAE 110 types

Coil voltage selection

Min.	U_c	Max	Voltage
17	-	32	51
24	-	45	52
36	-	65	54
42	-	78	58
50	-	90	55
77	-	143	62
90	-	150	66
152	-	264	68

Surge suppressors for contactor coils

For mounting on contactor type	Control voltage	Packing	Weight	Catalog number	List price
TAE/AE45 – TAE/AE75 TAL9 – TAL30	12 to 32 VDC	2	0.015	RT5/32	\$ 30
	25 to 65 VDC	2	0.015	RT5/65	
	50 to 90 VDC	2	0.015	RT5/90	
	77 to 150	2	0.015	RT5/150	
	150 to 264	2	0.015	RT5/264	

Technical data

Type	Control circuit	Opening time growth factor	Residual overvoltage or clipping voltage	Remarks
RT5 /...transil diode			Advantages	<ul style="list-style-type: none"> • Good energy absorption • Unpolarized system • Simple, reliable system Disadvantages <ul style="list-style-type: none"> • A certain delay on drop out which does not reduce contactor breaking capacity
32	DC	2.5 to 3	50V	
65	DC	2.5 to 3	100V	
90	DC	2.5 to 3	150V	
150	DC	2.5 to 3	210V	
264	DC	2.5 to 3	390V	

NOTE: For all other accessories, see the Accessories section for across the line contactors, pages 1.16 – 1.32.
 TAL contactors use the same accessories as AL contactors.
 TAE contactors use the same accessories as AE contactors.