

TAE9...26 3-pole Contactors

d.c. operated with double-winding coil



TAE 12-30-00

Coil voltages and codes: TAE

Voltage - U_c V d.c.	Code □□
17 ... 32	5 1
25 ... 45	5 2
36 ... 65	5 4
42 ... 78	5 8
50 ... 90	5 5
77 ... 143	6 2
90 ... 150	6 6
152 ... 264	6 8

Other voltages: please consult us.



Voltage tolerances (-15 % and +10 %) included in the U_c min. and U_c max. values for the TAE... contactors.

Utilisation

TAE9 to TAE26 contactors are a compliment to the DC control contactor range. The coils have large voltage ranges in accordance with the requirements of railway applications. They are also suitable for control from a battery supply. The complimentary technical information not included in these pages can be found in the Main Technical Catalogue for Contactors 1SBC100122C0201.

Ordering Details: TAE...

Rated operational current	Auxiliary contacts fitted	Type	Order code	Weight kg	
AC-3 400 V A	AC-1 $\theta \leq 40^\circ\text{C}$ A		state coil voltage □□□ (see opposite table)	state coil voltage code □□ (see opposite table)	Pack ^{ing} 1 piece
9	25	--	TAE 9-30-00 □□□	1SBL 14 9061 R□□00	0.340
12	27	--	TAE 12-30-00 □□□	1SBL 16 9061 R□□00	0.340
16	30	--	TAE 16-30-00 □□□	1SBL 18 9061 R□□00	0.340
26	45	--	TAE 26-30-00 □□□	1SBL 24 9061 R□□00	0.600

Replacement Coils

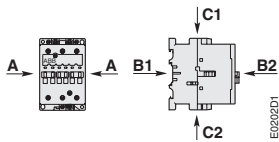
For contactor	Type	Order code	Weight kg
	state coil voltage □□□ (see opposite table)	state coil voltage code □□ (see opposite table)	Pack ^{ing} 1 piece
TAE9...TAE16	ZAE16 □□□	1SBN 15 1490 R□□06	0.093
TAE26	ZAE40 □□□	1SBN 15 2490 R□□06	0.148

TAE9...26 Contactors

Technical Data

General Technical Data

Contactor types: TAE...	9	12	16	26
Rated insulation voltage U_i according to IEC 60947-4-1	V	1000		
according to UL/CSA	V	600		
Rated impulse withstand voltage U_{imp}, kV		8		
Standards	Devices comply with international standards IEC 60947-1 / 60947-4-1 and European standards EN 60947-1 / 60947-4-1			
Certifications - Approvals	see Technical Catalogue 1SBC100122C0201			
Air temperature close to contactor	"Conditions for use" page 1/4, for control voltage limits and authorized mounting positions			
– fitted with thermal O/L relay	°C	-25 to +55		
– without thermal O/L relay	°C	-40 to +55		
– for storage	°C	-60 to +80		
Climatic withstand	acc. to IEC 60068-2-30 and 60068-2-11 - UTE C 63-100 specification II			
Operating altitude	m	≤ 3000		
Shock withstand acc. IEC 60068-2-27 and EN 60068-2-27 Mounting position 1 (see page 1/4)	1/2 sinusoidal shock for 11 ms: no change in contact position			
	Shock direction	Making position	Breaking position	
	A	20 g	20 g	
	B1	10 g	5 g	
	B2	15 g	15 g	
	C1	20 g	20 g	
	C2	20 g	20 g	



Magnet System Characteristics for TAE... Contactors

Contactor types: TAE...	9	12	16	26
Rated control circuit voltage U_c V d.c.	17 ... 264			
Coil operating limits	$\theta \leq 55$ °C			
	U_c min. ... U_c max.			
Drop-out voltage in % of U_c max.	10 ... 30 %			
Coil consumption values for U_c min. ... U_c max.				
– pull-in value	W	65 ... 140		
– holding value	W	1.0 ... 3.5		
Coil time constant				
– open	L/R	ms	2	3
– closed	L/R	ms	9	16
Operating time between coil energization and:				
– N.O. contact closing	ms	10 ... 16		13...21
– N.C. contact opening	ms	8 ... 12		11...16
between coil de-energization and				
– N.O. contact opening	ms	5 ... 14 (1)		6 ... 12 (1)
– N.C. contact closing	ms	11 ... 17 (1)		8...16(1)

(1) The use of surge suppressors increases the opening time on a scale of 1.1 to 1.5 for a varistor suppressor and on a scale of 4 to 8 for a diode suppressor.