

TAE9...26 Contactors

Technical Data

Main Pole - Utilization Characteristics



Contactor types: TAE...	9	12	16	26	
Rated operational voltage U_e max. V	690				
Rated frequency limits Hz	25 ... 400				
Conventional free-air thermal current I_{th} acc. to IEC 60947-4-1, open contactors $\theta \leq 40^\circ\text{C}$	A	26	28	30	45
with conductor cross-sectional area mm^2	4	4	4	6	
Rated operational current I_e / AC-1 for air temperature close to contactor					
U_e max. 690 V					
$\theta \leq 40^\circ\text{C}$	A	25	27	30	45
$\theta \leq 55^\circ\text{C}$	A	22	25	27	40
$\theta \leq 70^\circ\text{C}$ (1)	A	–	–	–	–
with conductor cross-sectional area mm^2	2.5	4	4	6	
Utilization categorie AC-3 for air temperature close to contactor $\leq 55^\circ\text{C}$					
Rated operational current I_e AC-3					
220-230-240 V	A	9	12	17	26
3-phase motors 380-400 V	A	9	12	17	26
415 V	A	9	12	17	26
440 V	A	9	12	16	26
500 V	A	9	12	14	22
690 V	A	7	9	10	17
1000 V	A	–	–	–	–
Rated operational power AC-3					
220-230-240 V	kW	2.2	3	4	6.5
1500 r.p.m. 50 Hz 1800 r.p.m. 60 Hz 3-phase motors 380-400 V	kW	4	5.5	7.5	11
415 V	kW	4	5.5	9	11
440 V	kW	4	5.5	9	15
500 V	kW	5.5	7.5	9	15
690 V	kW	5.5	7.5	9	15
1000 V	kW	–	–	–	–
Rated making capacity AC-3 according to IEC 60947-4-1	10 x I_e AC-3				
Rated breaking capacity AC-3 according to IEC 60947-4-1	8 x I_e AC-3				
Short-circuit protection for contactors without thermal O/L relay - Motor protection excluded $U_e \leq 500$ V a.c. - gG type fuse	A	25	32	32	50
Rated short-time withstand current I_{cw} at 40°C ambient temp., in free air, from a cold state					
1 s	A	250	280	300	400
10 s	A	100	120	140	210
30 s	A	60	70	80	110
1 min	A	50	55	60	90
15 min	A	26	28	30	45
Maximum breaking capacity $\text{COS } \varphi = 0.45$ ($\text{COS } \varphi = 0.35$ for $I_e > 100$ A)					
at 440 V	A	250	250	250	420
at 690 V	A	100	100	100	170
Heat dissipation per pole I_e / AC-1	W	0.8	1	1.2	1.8
I_e / AC-3	W	0.1	0.2	0.35	0.6
Max. electrical switching frequency					
– for AC-1	cycles/h	600			
– for AC-3	cycles/h	600			
– for AC-2, AC-4	cycles/h	300			
Electrical durability	See A Contactor curves in Technical Catalogue 1SBC100122C0201				
Mechanical durability					
– millions of operating cycles		5			
– max. mechanical switching frequency	cycles/h	3600			

(1) Unauthorized for TAE... contactors.

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d.c. Operated with Double-Winding Coil

Mounting Characteristics

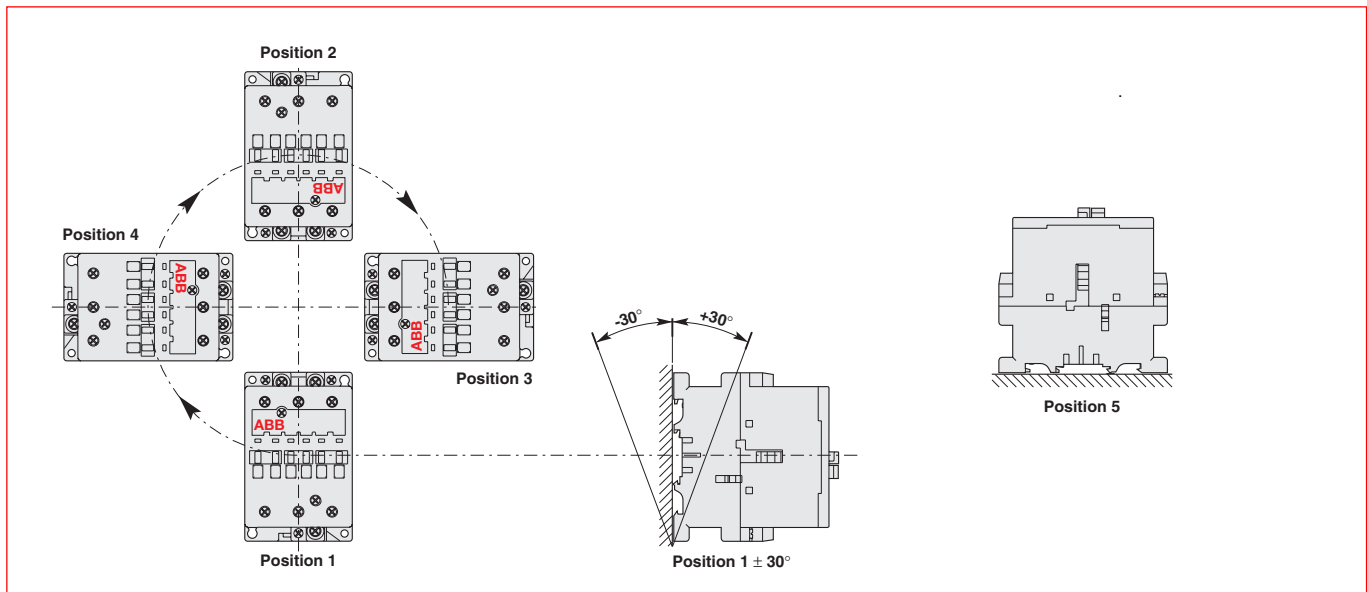
Contactor types: TAE...	9	12	16	26
Mounting positions	Shown below			
Mounting distances	The contactors can be assembled side by side			
Fixing on DIN rail according to IEC 715 and EN 50022 / EN 50023 by screws (not supplied)		35 x 7.5 mm		
		35 x 15 mm		
	2 x M4			

Conditions for Use





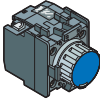
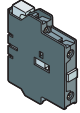
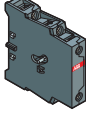
The contactor utilisation conditions relating to the Mounting position, Ambient temperature and Control voltage operating limits are summarized in the table below.

Contactors	Mounting position	Ambient temperature	Control voltage
TAE 9 ... TAE 26	1, 1 ± 30°, 2, 3, 4, 5	≤ 55 °C	U _c min. ... U _c max.

Mounting Positions (see the above table for authorized positions)



TAE9 to TAE26 accessory compatibility

Contactor configuration	Front-mounted accessories (1)			Side-mounted accessories	
Contactor types:   Main poles: 3 0 0 0 Available auxiliary contacts: 0 0 0 0					
TAE 9 ... TAE 26	3 0 0 0	1 to 4 x CA 5-.. or 1 x CA 5-.. (4-pole)	or 1 x TP .. A	+ 1 to 2 x CAL 5-11 or	1 x VM 5-1 or VE 5-1 + 1 x CAL 5-11