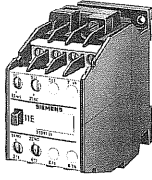
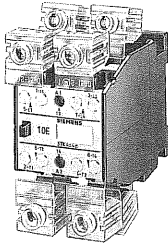
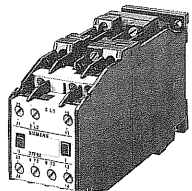
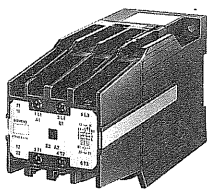


3TF, 3TK2 and 3TK6 Contactors with Main Contacts 4 NO

Selection and ordering data		Multi-unit packing, see Part 17.								
With screw terminals										
For screw and snap-on mounting onto 35 mm standard mounting rail										
 3TF41 80	Size	Ratings AC-2 and AC-3 duty				AC-1	Auxiliary contacts	Order No.	Price	Weight approx.
		Operational current I_e	Outputs of three-phase motors at 50 Hz and				Operational current I_e (at 55 °C)	Type		
		at 400/380 V	230/220 V	400/380 V	500 V	690/660 V				
	A	kW	kW	kW	kW	A	NO NC			kg
AC operation										
	00	9	2.4	4	4	4	16	1) -	3TF20 80-0A.. 3TK20 40-0A..	0.18 0.18
	0	12	3.3	5.5	7.5	7.5	20 36	1 1 1 - - 1	3TF41 80-0A.. 3TK64 40-0A.. 3TK64 41-0A..	0.41 0.48 0.48
DC operation										
	00	9	2.4	4	4	4	16	1) -	3TF20 80-0B.. 3TK20 40-0B..	0.2 0.2
	0	12	3.3	5.5	7.5	7.5	20 36	1 1 1 - - 1	3TF41 80-0B.. 3TK64 40-0B.. 3TK64 41-0B..	0.62 0.69 0.69
Rated control voltage		V AC, 50 Hz				V DC				
		24		230/220		24				
Order No. suffix		B0 P0 ²⁾		B4						
For further voltages, see pages 3/24 and 3/25.										
 3TK64 40										

3TF8 Reversing Contactors

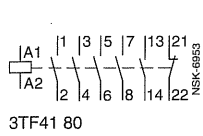
Selection and ordering data										
AC operation · for screw and snap-on mounting onto 35 mm standard mounting rail										
 3TF83	Ratings AC-2 and AC-3 duty	Outputs of three-phase motors at 50 Hz and				AC-1	Auxiliary contacts per direction of rotation	Order No.	Price	Weight approx.
	Operational current I_e					Operational current I_e (at 55 °C)	Type			
	at 400/380 V	230/220 V	400/380 V	500 V	690/660 V					
	A	kW	kW	kW	kW	A	NO NC			kg
	6.6	1.5	3	4	4	20	1 - - 1	3TF81 31-0A.. 3TF81 33-0A..		0.38
	9	2.2	4	5.5	5.5	20	1 1	3TF82 32-0A..		0.56
	12	3	5.5	7.5	7.5	20	1 1	3TF83 32-0A..		0.56
	32	8.5	15	15	12	45	1 - - 1	3TF86 31-0A.. 3TF86 33-0A..		0.95
Rated control voltage		V AC, 50 Hz								
		24		42 110 230/220						
Order No. suffix		B0 D0 F0 P0 ²⁾								
 3TF86										
	For further voltages, see page 3/24.									

1) The 3TF20 contactors can be fitted with 3TX4 4...-2A auxiliary contact blocks (see page 3/3).

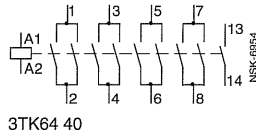
2) Coil voltage tolerance at 220 V: 0.85 to 1.15 x U_N ; lower tolerance range limit acc. to IEC 947.

3TF, 3TK2 and 3TK6 Contactors with 4 NO, 2 NO + 2 NC Main Contacts

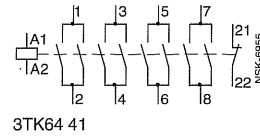
Internal connection diagrams



3TF41 80



3TK64 40



3TK64 41

Fig. 3/37
3TF and 3TK AC contactors
with 4 NO main contacts
Sizes 00 and 0
AC and DC operation

For internal connection diagrams for 3TF20/3TK20 contactors, see page 3/103.

Circuit diagram, pole changing

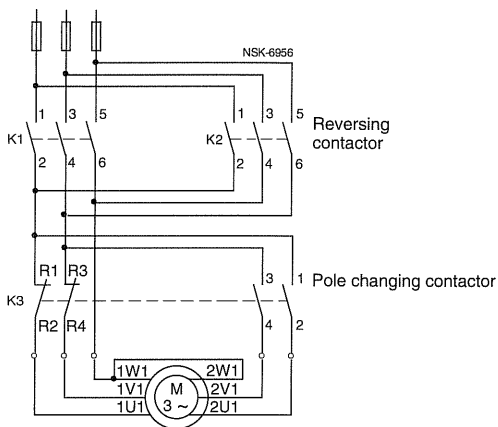


Fig. 3/38
3TF20, 3TF4., 3TF86

3TF8 Reversing Contactors

Internal connection diagrams

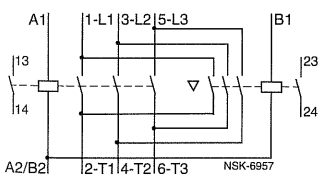


Fig. 3/39
3TF81 31, 3TF86 31

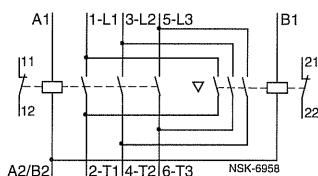


Fig. 3/40
3TF81 33, 3TF86 33

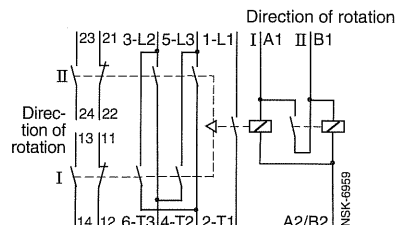


Fig. 3/41
3TF82, 3TF83
Direction I: The contactor solenoid system (A1-A2) is excited.
Direction II: The auxiliary magnet (B1-B2) is energized and operates the direction determining bar. The contactor solenoid system (A1-A2) is then excited.

3TF, 3TK2 and 3TK6 Contactors with 4 NO, 2 NO + 2 NC Main Contacts

Terminal arrangements

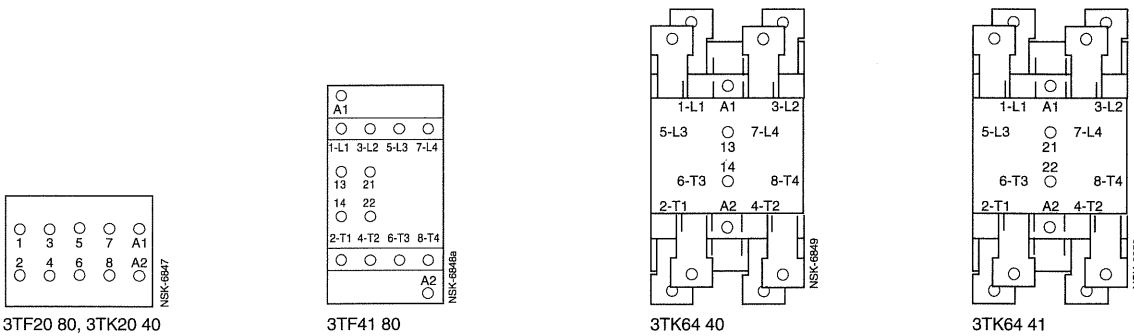


Fig. 3/103
Contactors with 4 NO main contacts, sizes 00 and 0
AC and DC operation

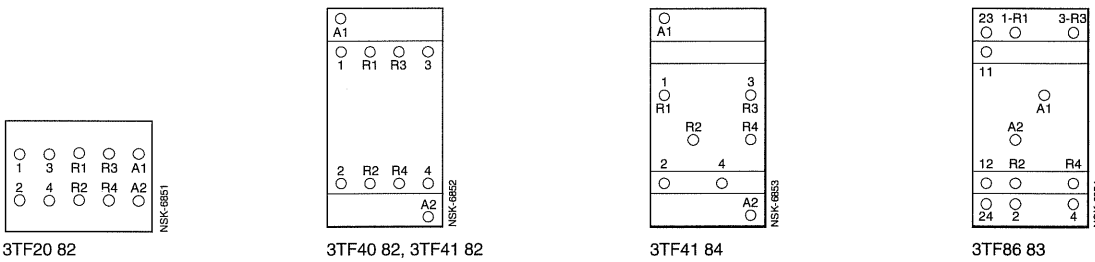


Fig. 3/104
Contactors with 2 NO + 2 NC main contacts
AC operation

3TF8 Reversing Contactors

Terminal arrangements

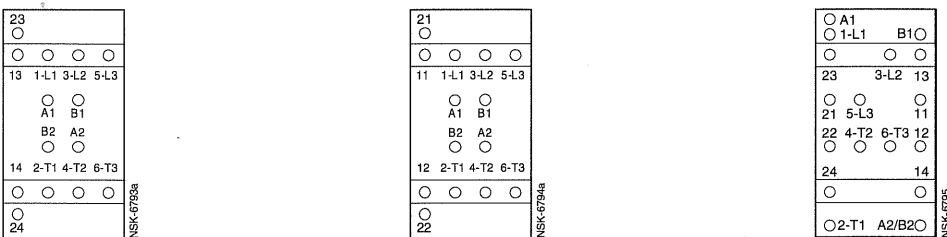


Fig. 3/105
3TF81 31, 3TF86 31

Fig. 3/106
3TF81 33, 3TF86 33

Fig. 3/107
3TF82 32, 3TF83 32