

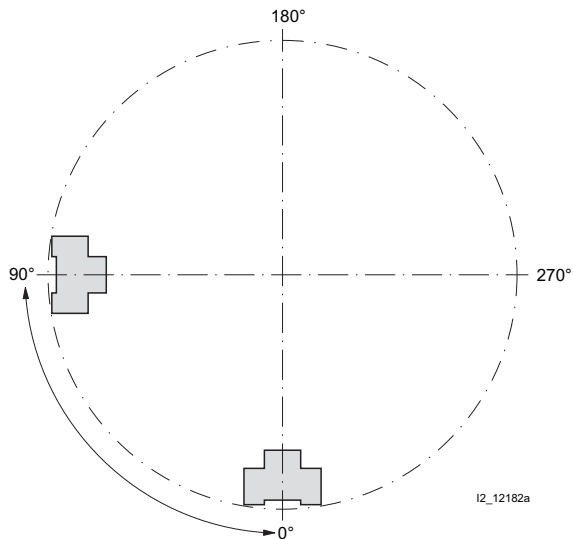
BETA Switching Switching Devices

Insta contactors, DC technology

More information

Mounting position, Insta contactors, DC technology, 24 A, 40 A, 63 A

There are no restrictions for normal mounting position (see figure, 0° to 90°). For mounting positions between 100° and 260°, the level of control voltage must be at least 100% of the rated value.

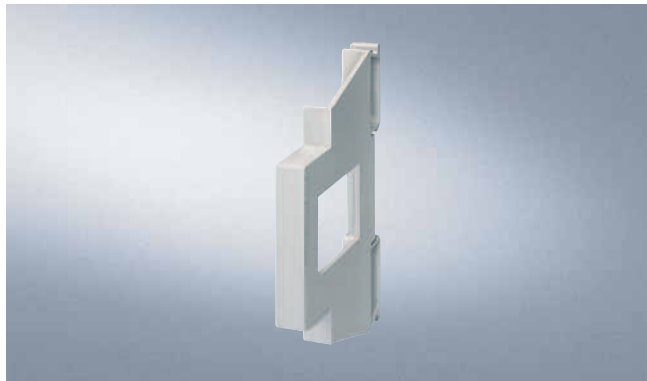


Heat dissipation

If more than one Insta contactor with DC magnetic system is installed, a 5TG8 240 spacer must be installed after every second contactor.

Spacers

Spacers can be used as a compensating element and have a width of ½ MW. They come with an integrated wiring duct for the insertion of conductors. Two reciprocally installed spacers thus offer space for large conductor cross-sections up to a 14 mm diameter.



Switching of direct voltages DC-1 and DC-3

Permissible DC switching currents for NO contacts with resistive load 4 contacts in series are not recommended for 24 V due to unreliable contacts					1 contact		2 contacts in series		3 contacts in series		4 contacts in series	
					DC-1	DC-3	DC-1	DC-3	DC-1	DC-3	DC-1	DC-3
5TT5 73 , 4-pole, 24 A	I_e at $U_e =$	24 V DC	A		24	16	24	24	24	24	24	--
		48 V DC	A		21	8	24	18	24	24	--	--
		60 V DC	A		17	4	24	14	24	24	--	--
		110 V DC	A		7	1.6	16	6.5	24	16	8	--
		220 V DC	A		0.9	0.2	4.5	1	13	4	3.5	--
5TT5 74 , 4-pole, 40 A	I_e at $U_e =$	24 V DC	A		40	19	40	40	40	40	24	--
		48 V DC	A		23	10	40	20	40	40	--	--
		60 V DC	A		16	5	32	16	40	34	--	--
		110 V DC	A		8	1.8	17	7	30	18	8	--
		220 V DC	A		1	0.3	5	1.1	15	4.5	3.5	--
5TT5 75 , 4-pole, 63 A	I_e at $U_e =$	24 V DC	A		50	21	63	44	63	63	63	--
		48 V DC	A		26	11	43	22	63	47	--	--
		60 V DC	A		20	5.5	35	18	60	38	--	--
		110 V DC	A		9	2	19	8	33	21	--	--
		220 V DC	A		1.1	0.3	5.5	1.2	17	5	20	--

Switching of lamps

Incandescent lamp loads						
5TT5 73 , 4-pole, 24 A		per NO contact	W		1500	
5TT5 74 , 4-pole, 40 A		per NO contact	W		3000	
5TT5 75 , 4-pole, 63 A		per NO contact	W		5000	

Maximum number of lamps in units, per NO contact at 230 V, 50 Hz.

Fluorescent and compact lamps in ballast operation (KVG) (permissible number of lamps in units per circuit at 230 V AC, 50 Hz)

				Uncorrected			Parallel-corrected			DUO circuit 2 lamps		
Lamp type	W			L18	L36	L58	L18	L36	L58	2 x L18	2 x L36	2 x L58
Capacitor capacitance	μF			--	--	--	4.5	4.5	7.0	--	--	--
5TT5 73 , 4-pole	24 A	per NO contact		26	20	12	8	8	5	26	20	12
5TT5 74 , 4-pole	40 A	per NO contact		85	65	40	16	16	10	85	65	40
5TT5 75 , 4-pole	63 A	per NO contact		135	105	65	67	67	43	140	105	65

Fluorescent and compact lamps with electronic primary switching device (ECG) (permissible number of lamps in units per circuit at 230 V AC, 50 Hz)

				1 lamp			2 lamps		
Lamp type	W			1 x L18	1 x L36	1 x L58	2 x L18	2 x L36	2 x L58
5TT5 73 , 4-pole	24 A	per NO contact		24	16	14	18	11	8
5TT5 74 , 4-pole	40 A	per NO contact		55	34	32	34	20	17
5TT5 75 , 4-pole	63 A	per NO contact		76	47	46	48	29	24

High-pressure mercury-vapor lamps (HQL) (permissible number of lamps in units per circuit at 230 V AC, 50 Hz)

			Uncorrected								Parallel-corrected							
Lamp type	W		50	80	125	250	400	700	1 000	50	80	125	250	400	700	1 000		
Capacitor capacitance	μF		--	--	--	--	--	--	--	7	8	10	18	25	45	60		
5TT5 73 , 4-pole	24 A	per NO contact	14	10	7	4	2	1	1	5	4	3	2	1	0	0		
5TT5 74 , 4-pole	40 A	per NO contact	36	27	19	10	7	4	3	10	8	6	3	3	1	1		
5TT5 75 , 4-pole	63 A	per NO contact	50	38	26	14	10	6	4	43	37	26	15	10	5	4		

Halogen metal-vapor lamps (HQL) (permissible number of lamps in units per circuit at 230 V AC, 50 Hz)

				Uncorrected						Parallel-corrected					
Lamp type	W			70	150	250	400	1 000	2 000	70	150	250	400	1 000	
Capacitor capacitance	μF			--	--	--	--	--	--	12	20	33	35	95	
5TT5 73 , 4-pole	24 A	per NO contact		5	3	2	1	0	0	3	1	1	0	0	
5TT5 74 , 4-pole	40 A	per NO contact		14	8	5	4	1	1	5	3	2	2	0	
5TT5 75 , 4-pole	63 A	per NO contact		20	11	7	6	2	1	18	9	5	4	1	

High-pressure sodium-vapor lamps (NAV) (permissible number of lamps in units per circuit at 230 V AC, 50 Hz)

				Uncorrected				Parallel-corrected			
Lamp type	W			150	250	400	1 000	150	250	400	1 000
Capacitor capacitance	μF			--	--	--	--	20	33	48	106
5TT5 73 , 4-pole	24 A	per NO contact		4	3	1	0	1	1	0	0
5TT5 74 , 4-pole	40 A	per NO contact		15	9	6	3	3	2	1	0
5TT5 75 , 4-pole	63 A	per NO contact		20	15	8	4	15	9	6	2