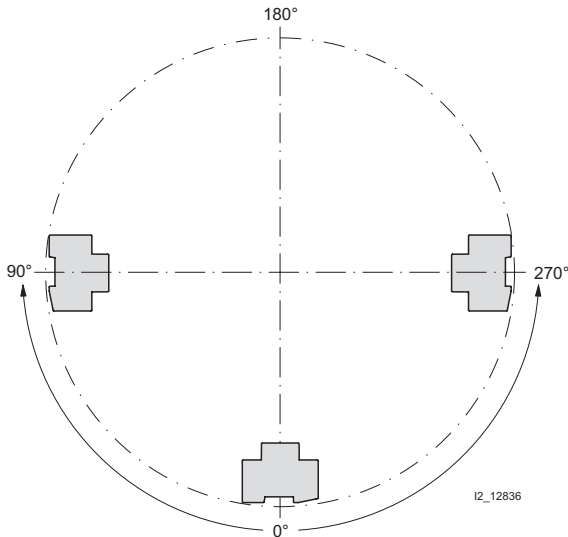


More information

Mounting position, Insta contactors, AC technology

The installation of the devices is permissible in the positions shown in the following diagram (0° to 90°, 270° to 0°). There are no restrictions when the devices are installed in these normal mounting positions.



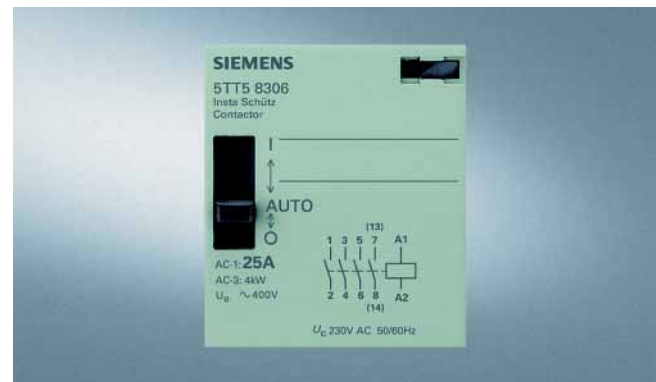
Heat dissipation

If several Insta contactors with AC magnetic system are mounted in series in a distribution board, there are no restrictions for the types 25 A, 40 A and 63 A within the permissible ambient temperature range up to 55 °C. For 20 A types within the temperature range up to 40 °C, a 5TG8 240 spacer must be installed after every third Insta contactor, and in the temperature range over 40 °C to 55 °C, after every second contactor.

Manual switching with O//Automatic function

The 5TT5 8...-6 and 5TT5 8...-8 versions also offer a manual switch. The knob allows preselection of 3 positions:

- Knob in the "AUTO" position
Automatic mode → normal protective function
- Knob in the "I" position
Continuous mode → switched on manually
(without control signal, when a control signal is applied, the manual switch on reset, i.e. the knob is automatically reset to the "AUTO" position).
- Knob in the "O" position
Off → switched off
(coil circuit interrupted)



Plant test without applying a control voltage

Insta contactors with O//Automatic function enable the testing of a plant by manual switch without the need to apply a control voltage.

Automatic reset by control signal

When applying a control signal to the terminals A1 and A2, the Insta contactors can be reset from continuous operation mode ("I" position) to automatic mode ("AUTO" position).

BETA Switching Switching Devices

Insta contactors, AC technology

Switching of AC voltages DC-1

Permissible DC switching currents for NO contacts with resistive load					1 contact	2 contacts in series	3 contacts in series	4 contacts in series
5TT5 80	2-pole, 20 A	I_e for	$U_e = 24$ V DC $U_e = 110$ V DC $U_e = 220$ V DC	A A A	20 1 0.5	20 3 5	-- -- --	-- -- --
5TT5 83	4-pole, 25 A	I_e for	$U_e = 24$ V DC $U_e = 110$ V DC $U_e = 220$ V DC	A A A	25 2 0.5	25 4 5	25 6 12	25 8 15
5TT5 84	4-pole, 40 A	I_e for	$U_e = 24$ V DC $U_e = 110$ V DC $U_e = 220$ V DC	A A A	40 4 0.8	40 10 6	40 30 20	40 40 40
5TT5 85	4-pole, 63 A	I_e for	$U_e = 24$ V DC $U_e = 110$ V DC $U_e = 220$ V DC	A A A	63 4 1	63 10 6	63 35 30	63 63 63

Switching of lamps

Incandescent lamp loads, lamp type			1000W	500W	200W	100W	60W
5TT5 80 , 2-pole, 20 A	per NO contact/ NC contact		1	4	10	20	33
5TT5 83 , 4-pole, 25 A	per NO contact/ NC contact		1	3	8	16	29
5TT5 84 , 4-pole, 40 A	per NO contact/ NC contact		4	8	20	40	65
5TT5 85 , 4-pole, 63 A	per NO contact/ NC contact		5	10	25	50	85

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

Fluorescent and compact lamps in ballast operation (KVG) (permissible number of lamps in units per NO contact/NC contact at 230 V AC, 50 Hz)

			Uncorrected			Parallel-corrected			DUO switching, 2-lamp		
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 80 , 2-pole	20 A	per NO contact/ NC contact	22	17	14	7	7	4	30	17	10
5TT5 83 , 4-pole	25 A	per NO contact/ NC contact	24	20	17	8	8	5	40	24	14
5TT5 84 , 4-pole	40 A	per NO contact/ NC contact	90	65	45	48	48	31	100	65	40
5TT5 85 , 4-pole	63 A	per NO contact/ NC contact	140	95	70	73	73	47	150	95	60

Fluorescent and compact lamps with electronic primary switching device (ECG) (permissible number of lamps in units per NO contact/NC contact 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 80 , 2-pole	20 A	per NO contact/ NC contact	25	15	14	12	7	7
5TT5 83 , 4-pole	25 A	per NO contact/ NC contact	35	20	19	17	10	9
5TT5 84 , 4-pole	40 A	per NO contact/ NC contact	100	52	50	50	26	25
5TT5 85 , 4-pole	63 A	per NO contact/ NC contact	140	75	72	70	38	36

High-pressure mercury-vapor lamps (HQL) (permissible number of lamps in units per NO contact/NC contact at 230 V AC, 50 Hz)

			Uncorrected						Parallel-corrected							
Lamp type	W		50	80	125	250	400	700	1000	50	80	125	250	400	700	1000
Capacitor capacitance	μF		--	--	--	--	--	--	--	7	8	10	18	25	45	60
5TT5 80 , 2-pole	20 A	per NO contact/ NC contact	14	10	7	4	2	1	1	4	4	3	1	1	0	0
5TT5 83 , 4-pole	25 A	per NO contact/ NC contact	18	13	9	5	3	2	1	5	5	4	2	1	0	0
5TT5 84 , 4-pole	40 A	per NO contact/ NC contact	38	29	20	10	7	4	3	31	27	22	12	9	5	4
5TT5 85 , 4-pole	63 A	per NO contact/ NC contact	55	42	29	15	10	6	4	47	41	33	18	13	7	5

Halogen metal-vapor lamps (HQI) (permissible number of lamps in units per NO contact/NC contact at 230 V AC, 50 Hz)

Lamp type Capacitor capacitance				Uncorrected						Parallel-corrected					
				W μF	70 --	150 --	250 --	400 --	1000 --	2000 --	70 12	150 20	250 33	400 35	1000 95
5TT5 80, 2-pole	20 A	per NO contact/NC contact		10	5	3	3	1	0	2	1	0	0	0	0
5TT5 83, 4-pole	25 A	per NO contact/NC contact		12	7	4	3	1	0	3	1	1	0	0	0
5TT5 84, 4-pole	40 A	per NO contact/NC contact		23	12	7	6	2	1	18	11	6	6	2	1
5TT5 85, 4-pole	63 A	per NO contact/NC contact		32	18	10	9	3	1	25	15	9	8	3	2

High-pressure sodium-vapor lamps (NAV) (permissible number of lamps in units per NO contact/NC contact at 230 V AC, 50 Hz)

Lamp type Capacitor capacitance			W	Uncorrected				Parallel-corrected			
			μF	150	250	400	1000	150	250	400	1000
				--	--	--	--	20	33	48	106
5TT5 80, 2-pole	20 A	per NO contact/NC contact		5	3	2	0	1	0	0	0
5TT5 83, 4-pole	25 A	per NO contact/NC contact		6	4	2	1	1	1	0	0
5TT5 84, 4-pole	40 A	per NO contact/NC contact		17	10	6	3	11	6	4	2
5TT5 85, 4-pole	63 A	per NO contact/NC contact		22	13	8	3	16	10	6	3

High-pressure sodium-vapor lamps (permissible number of lamps in units per NO contact/NC contact at 230 V AC, 50 Hz)

Lamp type Capacitor capacitance			W	Uncorrected						Parallel-corrected					
			μF	18	35	55	90	135	180	18	35	55	90	135	180
				--	--	--	--	--	--	5	20	20	26	45	40
5TT5 80, 2-pole	20 A	per NO contact/NC contact		22	7	7	4	3	3	6	1	1	1	--	--
5TT5 83, 4-pole	25 A	per NO contact/NC contact		27	9	9	5	4	4	7	1	1	1	--	--
5TT5 84, 4-pole	40 A	per NO contact/NC contact		71	23	23	14	10	10	44	11	11	8	4	5
5TT5 85, 4-pole	63 A	per NO contact/NC contact		90	30	30	19	13	13	66	16	16	12	7	8

Fluorescent Lumilux lamps T5 type FC with electronic primary switching device (ECG) (permissible number of lamps in units per NO contact/NC contact at 230 V AC, 50 Hz)

Lamp type			W	1 lamp			2 lamps		
				22	40	55	2 x 22	2 x 40	2 x 55
5TT5 80, 2-pole	20 A	per NO contact/NC contact		22	12	8	11	6	4
5TT5 82, 5TT5 83, 4-pole	25 A	per NO contact/NC contact		30	15	12	15	7	6
5TT5 84, 4-pole	40 A	per NO contact/NC contact		80	40	30	40	20	15
5TT5 85, 4-pole	63 A	per NO contact/NC contact		110	60	45	55	30	22

Fluorescent Lumilux lamps T5 type HE with electronic primary switching device (ECG) (permissible number of lamps in units per NO contact/NC contact at 230 V AC, 50 Hz)

Lamp type			W	1 lamp				2 lamps			
				14	21	28	35	2 x 14	2 x 21	2 x 28	2 x 35
5TT5 80, 2-pole	20 A	per NO contact/NC contact		30	22	18	14	15	11	9	7
5TT5 82, 5TT5 83, 4-pole	25 A	per NO contact/NC contact		40	30	22	18	20	15	11	9
5TT5 84, 4-pole	40 A	per NO contact/NC contact		105	80	60	48	52	40	30	24
5TT5 85, 4-pole	63 A	per NO contact/NC contact		150	115	90	70	75	57	45	35

Fluorescent Lumilux lamps T5 type HO with electronic primary switching device (ECG) (permissible number of lamps in units per NO contact/NC contact at 230 V AC, 50 Hz)

Lamp type			W	1 lamp					2 lamps				
				24	39	49	54	80	2 x 24	2 x 39	2 x 49	2 x 54	2 x 80
5TT5 80, 2-pole	20 A	per NO contact/NC contact		20	12	10	9	6	10	6	5	4	3
5TT5 82, 5TT5 83, 4-pole	25 A	per NO contact/NC contact		26	16	14	13	8	13	8	7	6	4
5TT5 84, 4-pole	40 A	per NO contact/NC contact		70	42	35	32	22	35	21	17	16	11
5TT5 85, 4-pole	63 A	per NO contact/NC contact		100	62	52	47	32	50	31	26	23	16