

Installation contactors are applied for automatic control of electric devices in installations of dwellings, offices shops and hospitals. They are particularly suitable for switching lighting, heat pumps, air-conditioning and similar equipment and are also intended for switching single phase and three phase electric motors. They excel in silent operation. Contactors can be built in electric distribution panels on 35 mm mounting rails (in compliance with EN 60715). Sealing of contactors cover is also possible. Coils of contactors IK22, IK24, IK40 and IK63 are DC driven with rectifier that enables DC or AC voltage control. Four-pole make contacts of a contactor can be applied as main or auxiliary contacts.



An auxiliary switch with two contacts can be attached:

- version 11 is provided with one make and one brake contact - 1NO+1NC
- version 20 is provided with two make contacts - 2NO

Technical data

Type			IKA 20	IKD 20	IK 21	IKA 25	IKD 25	IK 40	IK 63	Aux. switch IKHSL ①	Aux. switch IKN ②			
General	Standards		IEC 947-4-1, IEC 947-5-1, IEC 1095, EN 60 947-4-1, EN 60 947-5-1, EN 61 095, VDE 0660, VDE 0637											
	Permissible ambient temperature		°C		-5 ... +55				-5 ... +40		-5 ... +55			
	Storage temperature		°C		+30 ... +80									
	Overvoltage protection		V		-	430	-	-	430	430	-	-		
	Mechanical endurance (switching cycles)				3 x 10 ⁶									
	Protection class to DIN 40 050, IEC 529				IP 20									
	Side-by-side assembly at u _{ok}		40°C		no limitation									
			55°C		no limitation						max. 3 contacts			
	Rated insulation voltage		U _i V		440	440	415	440	440	500	500	440	440	
			U _{imp} kV		4	4	4	4	4	4	4	4	4	
Rated thermal current		I _{th} A		20	20	20	25	25	40	63	6	6		
AC1	Rated operational current		I _e A		20	20	20	25	25	40	63	-	-	
AC7a	Operational power rating	230V		4	4	7,5	9	9	16	40	-	-		
		400V		-	-	13	16	16	26	40	-	-		
AC3	Operational power rating	230V		1,3 only for NO	1,3 only for NO	1,1	2,2	2,2	5,5	8,5	-	-		
AC7b		400V		-	-	2,2	4	4	11	15	-	-		
DC1	Rated operational current at:	1 pole	U _e =24V		20	20	20	25	25	40	63	-	-	
			U _e =110V		1	1	2	2	2	4	4	-	-	
			U _e =220V		0,5	0,5	0,5	0,5	0,5	0,8	0,8	-	-	
		2 poles connected in series	U _e =24V		-	20	20	-	-	40	63	-	-	
			U _e =110V		3	3	4	4	4	10	10	-	-	
			U _e =220V		1,5	1,5	1,5	1,5	1,5	6	6	-	-	
		3 poles connected in series	U _e =24V		-	-	20	-	-	40	63	-	-	
			U _e =110V		-	-	6	6	6	40	35	-	-	
			U _e =220V		-	-	2,5	2,5	2,5	20	30	-	-	
		4 poles connected in series	U _e =24V		-	-	20	25	25	40	63	-	-	
			U _e =110V		-	-	6	6	6	40	63	-	-	
			U _e =220V		-	-	3,5	3,5	3,5	40	63	-	-	
Electrical endurance at 230/400V	AC1			200.000	200.000	200.000	200.000	200.000	100.000	100.000	-	-		
	AC3			300.000	300.000	300.000	500.000	500.000	150.000	150.000	-	-		
	AC5a	High pressure vapour lamps		100.000 at 32 µF	100.000 at 32 µF	100.000 at 32 µF	100.000 at 32 µF	100.000 at 32 µF	100.000 at 32 µF	100.000 at 32 µF	-	-		
	AC5b	Incandescent lamps		-	-	50.000 at 1,5 kW	50.000 at 1,5 kW	20.000 at 1,5 kW	100.000 at 4 kW	100.000 at 6 kW	-	-		
	AC7a	Resistive household devices		200.000	100.000	200.000	200.000	200.000	100.000	100.000	-	-		
	AC7b	Inductive household devices		300.000	300.000	300.000	500.000	500.000	150.000	150.000	-	-		
Main contacts	Maximum operating frequency		p.c./h		600	600	360	600	600	120	120	120	600	
	Stray power per current path		W		1,7	1,7	2	2,2	2,2	4	8	-	-	
	Back-up fuse gL max. rating		A		20	20	25	35	35	63	80	6	6	

① only for IK 40, IK 63

② only for IKA 20, IKD 20, IKA 25, IKD 25

Maximum number of lamps per pole

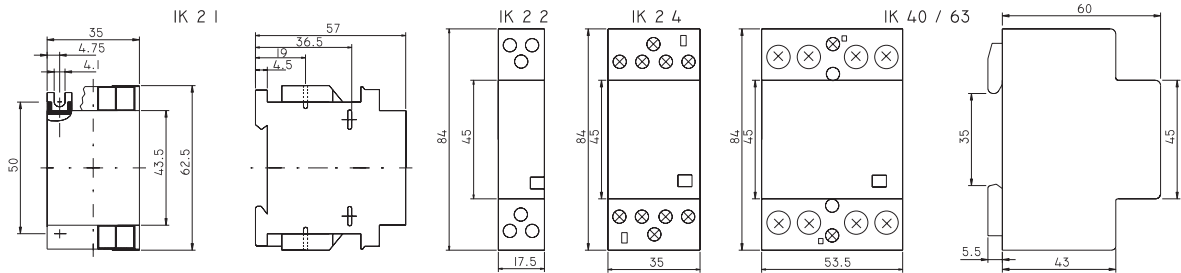


Type		IKA 20	IKD 20	IK 21	IKA 25	IKD 25	IK 40	IK 63	Aux. switch IKHHS1 ①	Aux. switch IKN ②
Light bulbs	60 W	21	21	25	25	25	65	85	-	-
	100 W	13	13	15	15	15	40	50	-	-
	200 W	7	7	7	7	7	20	25	-	-
	500 W	3	3	3	3	3	8	10	-	-
	1 000 W	1	1	1	1	1	4	5	-	-
Energy saving lamps	7 W	10	10	15	15	15	100	150	-	-
	11 W	10	10	15	15	15	100	150	-	-
	15 W	5	5	15	15	15	100	150	-	-
	20 W	3	3	10	10	10	70	70	-	-
Halide discharge lamp	200 W	-	-	5	5	5	15	20	-	-
	300 W	-	-	3	3	3	10	13	-	-
	500 W	-	-	2	2	2	6	8	-	-
	1 000 W	-	-	1	1	1	3	4	-	-
Low-pressure sodium discharge lamp (non-compensated)	35 W	5	5	6	6	6	13	20	-	-
	55 W	5	5	6	6	6	13	20	-	-
	90 W	3	3	4	4	4	9	14	-	-
	135 W	2	2	3	3	3	6	9	-	-
	180 W	3	3	3	3	3	6	9	-	-
High-pressure sodium discharge lamp (non-compensated)	50 W	12	12	12	12	12	24	38	-	-
	70 W	10	10	10	10	10	20	30	-	-
	110 W	8	8	7	7	7	16	25	-	-
	150 W	6	6	5	5	5	10	16	-	-
	250 W	3	3	3	3	3	6	10	-	-
	1 000 W	1	1	-	-	-	2	3	-	-
Low-pressure sodium discharge lamp (compensated)	35 W	1	1	1	1	1	10	16	-	-
	55 W	1	1	1	1	1	10	16	-	-
	90 W	-	-	1	1	1	8	12	-	-
	135 W	-	-	-	-	-	4	7	-	-
	180 W	-	-	-	-	-	4	7	-	-
High-pressure sodium discharge lamp (compensated)	50 W	3	3	3	3	3	22	33	-	-
	70 W	2	2	2	2	2	18	27	-	-
	110 W	2	2	2	2	2	18	27	-	-
	150 W	1	1	1	1	1	10	16	-	-
	250 W	-	-	1	1	1	6	9	-	-
	1 000 W	-	-	-	-	-	2	3	-	-
Fluorescent tubes (non-compensated)	18 W	24	24	24	24	24	45	70	-	-
	36 W	17	17	20	20	20	45	70	-	-
	58 W	10	10	13	13	13	25	43	-	-
Fluorescent tubes (compensated)	18 W	6	6	8	8	8	45	70	-	-
	36 W	6	6	8	8	8	45	70	-	-
	58 W	4	4	5	5	5	25	43	-	-
Fluorescent tubes (duo-connection)	18 W	2x22	2x22	2x48	2x48	2x48	2x100	2x150	-	-
	36 W	2x17	2x17	2x24	2x24	2x24	2x65	2x95	-	-
	58 W	2x10	2x10	2x15	2x15	2x15	2x40	2x60	-	-
Fluorescent tubes with electronic ballast	1x18 W	22	22	30	15	15	60	80	-	-
	1x36 W	12	12	16	14	14	30	42	-	-
	1x58 W	8	8	12	12	12	22	30	-	-
	2x18 W	23	23	32	13	13	40	48	-	-
	2x36 W	12	12	16	9	9	20	26	-	-
2x58 W	7	7	10	7	7	10	18	-	-	

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② only for IKA 20, IKD 20, IKA 25, IKD 25

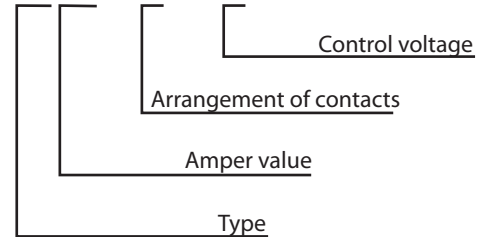
Dimensional drawing of IK



Type	Ordering Nr.
IKA20, 20/220/230V, 50/60	IKA20020
IKA25, 40/220/230V, 50/60	IKA25020
IKD20, 02/220/230V, 50/60	IKD20002
IKD20, 10/220/230V, 50/60	IKD20010
IKD20, 11/220/230V, 50/60	IKD20011
IKD20, 20/24	IKD2002/24
IKD20, 20/220/230V, 50/60	IKD20020
IKD25, 04/220/230V, 50/60	IKD25004
IKD25, 22/220/230V, 50/60	IKD25022
IKD25, 31/220/230V, 50/60	IKD25031
IKD25, 40/220/230V, 50/60	IKD25040
IK21, 10/220/230V, 50	IK21010
IK21, 01/220/230V, 50	IK21001
IK40, 40/220/230V, 50/60	IK40040
IK40, 31/220/230V, 50/60	IK40031
IK40, 22/220/230V, 50/60	IK40022
IK40, 04/220/230V, 50/60	IK40004
IK63, 40/220/230V, 50/60	IK63040
IK63, 31/220/230V, 50/60	IK63031
IK63, 22/220/230V, 50/60	IK63022

Ordering data

IK63 - 40 / 220



Contacts scheme

