

Contactors

IK INSTALLATION CONTACTORS

IKA20, IKD20, IK21, IKA25, IKD25, IK40, IKA40, IK63, IKA63



- Installation contactors are built in consumer units in dwellings, business premises, hotels, hospitals, shopping centres, sport centres, production halls, warehouses and public places
- They are used for remote switching and automatic control of electric devices and equipment, such as:
 - single-phase and three-phase motors
 - different pumps
 - air-conditioning
 - electric heating
 - lighting
- Basic contactor types are: IKA20-xx, IKD20-xx, IK21-xx, IKA25-xx, IKD25-xx, IK40-xx, IKA40-xx, IK63-xx, IKA63-xx
- IKD20, IKD25, IK40 and IK63 with a varistor for overvoltage protection and a rectifier enable dc and ac voltage control
- They excel in silent operation
- IKA20, IK21, IKA25, IKA40 and IKA63 are ac driven contactors only
- Contacts can be used as main or auxiliary
- Contactors are designed for assembling to 35 mm mounting rail in accordance with the EN 60715 standard
- Sealing terminal covers enable direct protection against contact with live parts
- IKV ventilation module is available for preventing exceeded heating when contactors are used side-by-side
- All contactors have degree of protection IP20

TECHNICAL DATA FOR IKA20, IKD20, IKA25 and IKD25

		Type		IKA20	IKD20	IKA25	IKD25	
Standards				IEC/EN 61095 , IEC/EN 60947-4-1, IEC/EN 60947-5-1				
Approvals				KEMA, NF, GOST				
Module width				1		2		
Mechanical endurance			op. c.	3 x 10 ⁶				
Ambient temperature			°C	-5 ... +55				
Storage temperature			°C	-30 ... +80				
No. of contactors (side-by-side)		≤ 40° C		max. 3	max. 3	no limitation	max. 3	
		40 - 55° C		max. 2	max. 2		max. 2	
Contact reliability				17 V; ≥ 50 mA				
Min. distance of open contacts			mm	3.6				
Power dissipation per pole			W	1.7	1.7	2.2	2.2	
Overload current withstand capability			A	72	72	68	68	
Max. back-up fuse for short-circuit protection gL Coordination type 2			I_v	A	20	20	25	25
Max. operating frequency	DC-1			300				
	AC-1/AC-3/AC-5b/AC-6b/ AC-15		op. c./h	600				
	no load			3000				
Weight			kg	0.13	0.13	0.24	0.24	
MAIN CIRCUIT	Rated insulation voltage		U_i	V	230	230	440	440
	Rated impulse withstand voltage		U_{imp}	kV	4			
	Thermal current		I_{th}	A	20	20	25	25
	Rated operational voltage		U_e	V	230	230	400	400
	Rated frequency		f	Hz	50/60			
	Rated operational current AC-1/AC-7a		I_e	A	20	20	25	25
	Operational power AC-1/AC-7a	single-phase	230 V		4	4	5.4	5.4
		three-phase	230 V	P_e	-	-	9	9
three-phase		400 V		-	-	16	16	
Electrical endurance AC-1/AC-7a			op. c.	200.000				

Contactors

IK INSTALLATION CONTACTORS

IKA20, IKD20, IK21, IKA25, IKD25, IK40, IKA40, IK63, IKA63

TECHNICAL DATA FOR IKA20, IKD20, IKA25 and IKD25

Type				IKA20	IKD20	IKA25	IKD25
Rated operational current	AC-3/AC-7b	I_e	A	NO: 9 NC: 6	NO: 9 NC: 6	8.5	8.5
Operational power	single-phase motor 230 V	P_e	kW	NO: 1.3 NC: 0.75	NO: 1.3 NC: 0.75	1.3 ¹⁾	1.3 ¹⁾
AC-3/AC-7b	three-phase motor 230 V			-	-	2.2	2.2
	three-phase motor 400 V			-	-	4	4
Electrical endurance	AC-3/AC-7b		op. c.	300.000	300.000	500.000	500.000
Switching of capacitors	AC-6b 230 V	C	μ F	30	30	36	36
Electrical endurance	AC-6b		op. c.	100.000			
MAIN CIRCUIT	DC-1 ($L/R \leq 1$ ms) Electrical endurance:		A				
	1 pole	$U_e = 24$ V DC		20	20	25	25
		$U_e = 48$ V DC		15	15	20	20
		$U_e = 60$ V DC		10	10	15	15
		$U_e = 110$ V DC		6	6	6	6
		$U_e = 220$ V DC		0.6	0.6	0.6	0.6
	2 poles connected in series	$U_e = 24$ V DC		20	20	25	25
		$U_e = 48$ V DC		18	18	25	25
		$U_e = 60$ V DC		15	15	20	20
		$U_e = 110$ V DC		10	10	10	10
		$U_e = 220$ V DC		6	6	6	6
	3 poles connected in series	$U_e = 24$ V DC		-	-	25	25
		$U_e = 48$ V DC		-	-	25	25
		$U_e = 60$ V DC		-	-	25	25
		$U_e = 110$ V DC		-	-	20	20
		$U_e = 220$ V DC		-	-	15	15
	4 poles connected in series	$U_e = 24$ V DC		-	-	25	25
		$U_e = 48$ V DC		-	-	25	25
		$U_e = 60$ V DC		-	-	25	25
		$U_e = 110$ V DC		-	-	20	20
	$U_e = 220$ V DC	-	-	15	15		
Electrical endurance	DC-1		op.c.	100.000	100.000	100.000	100.000
DC-3 ($L/R \leq 2$ ms) Electrical endurance:	1 pole	$U_e = 24$ V DC	A	10	10	15	15
		$U_e = 48$ V DC		5	5	8	8
		$U_e = 60$ V DC		2	2	4	4
		$U_e = 110$ V DC		1	1	1.3	1.3
		$U_e = 220$ V DC		0.1	0.1	0.2	0.2
	2 poles connected in series	$U_e = 24$ V DC		20	20	25	25
		$U_e = 48$ V DC		10	10	16	16
		$U_e = 60$ V DC		8	8	12	12
		$U_e = 110$ V DC		4	4	5.5	5.5
		$U_e = 220$ V DC		0.4	0.4	0.6	0.6

¹⁾ Data for single-phase power are valid for versions -22, -20 and -02

Contactors

IK INSTALLATION CONTACTORS

IKA20, IKD20, IK21, IKA25, IKD25, IK40, IKA40, IK63, IKA63

TECHNICAL DATA FOR IKA20, IKD20, IKA25 and IKD25

				IKA20	IKD20	IKA25	IKD25			
MAIN CIRCUIT	Type									
	DC-3 (L/R ≤ 2 ms) Rated operational current:									
	3 poles connected in series	$U_e = 24 \text{ V DC}$ $U_e = 48 \text{ V DC}$ $U_e = 60 \text{ V DC}$ $U_e = 110 \text{ V DC}$ $U_e = 220 \text{ V DC}$	I_e	A	-	-	25	25		
	4 poles connected in series	$U_e = 24 \text{ V DC}$ $U_e = 48 \text{ V DC}$ $U_e = 60 \text{ V DC}$ $U_e = 110 \text{ V DC}$ $U_e = 220 \text{ V DC}$			-	-	25	25		
	Electrical endurance	DC-3				op. c.	100.000	100.000	100.000	100.000
	DC-5 (L/R ≤ 7,5 ms) Rated operational current:									
	1 pole	$U_e = 24 \text{ V DC}$ $U_e = 48 \text{ V DC}$ $U_e = 60 \text{ V DC}$ $U_e = 110 \text{ V DC}$ $U_e = 220 \text{ V DC}$			I_e	A	10	10	15	15
	2 poles connected in series	$U_e = 24 \text{ V DC}$ $U_e = 48 \text{ V DC}$ $U_e = 60 \text{ V DC}$ $U_e = 110 \text{ V DC}$ $U_e = 220 \text{ V DC}$					4	4	5	5
							1	1	3	3
							0.3	0.3	0.5	0.5
							0.06	0.06	0.1	0.1
							20	20	25	25
			8	8			15	15		
			6	6			10	10		
			2	2			4	4		
			0.2	0.2			0.4	0.4		
	3 poles connected in series	$U_e = 24 \text{ V DC}$ $U_e = 48 \text{ V DC}$ $U_e = 60 \text{ V DC}$ $U_e = 110 \text{ V DC}$ $U_e = 220 \text{ V DC}$	-	-			25	25		
			-	-			25	25		
			-	-			20	20		
			-	-			12	12		
		-	-	2			2			
4 poles connected in series	$U_e = 24 \text{ V DC}$ $U_e = 48 \text{ V DC}$ $U_e = 60 \text{ V DC}$ $U_e = 110 \text{ V DC}$ $U_e = 220 \text{ V DC}$	-	-	25			25			
		-	-	25	25					
		-	-	25	25					
		-	-	15	15					
		-	-	5	5					
Electrical endurance	DC-5		op. c.	100.000	100.000	100.000	100.000			
Terminal capacity	rigid flexible	S	mm ²	1 ... 10 1 ... 6						
Screw				M3.5						
Screw head				PZ1						
Tightening torque			Nm	1.2						

Contactors

IK INSTALLATION CONTACTORS

IKA20, IKD20, IK21, IKA25, IKD25, IK40, IKA40, IK63, IKA63

TECHNICAL DATA FOR IKA20, IKD20, IKA25 and IKD25								
AUXILIARY CIRCUIT	Type			IKA20	IKD20	IKA25	IKD25	
	Rated operational voltage	U_e	V	230	230	400	400	
	Rated insulation voltage	U_i	V	230	230	440	440	
	Rated impulse withstand voltage	U_{imp}	kV	4				
	Thermal current	I_{th}	A	20	20	25	25	
	AC-15							
	Rated operational current	single-phase 230 V single-phase 400 V	I_e	A	6 -	6 -	6 4	6 4
Electrical endurance	AC-15		op. c.	300.000	300.000	500.000	500.000	
CONTROL CIRCUIT	Range of control voltage	U_c	%	85 ... 110				
	Kind of voltages			AC	AC, DC	AC	AC, DC	
	Control voltage	U_c	V	12 ... 230				
	Frequency (AC)	f	Hz	50/60 ²⁾				
	Surge immunity test (1.2/50 μ s), acc. to IEC/EN 61000-4-5			kV	2			
	Coil consumption	switch-on operation		VAW	12/10 2.8/1.2	2.1/2.1 2.1/2.1	33/25 5.5/1.6	2.6/2.6 ³⁾ 2.6/2.6 ³⁾
	Make/break delays	make break		ms	15 – 25 10 – 30	15 – 45 20 – 50	10 – 30 10 – 30	15 – 45 20 – 70
	Terminal capacity	rigid flexible	S	mm ²	1 ... 2.5 1 ... 2.5			
	Screw				M 3.5			
	Screw head				PZ1			
	Tightening torque			Nm	0.6			

²⁾ IKD20 and IKD25 can be controlled by ac voltage with frequency from 40 Hz to 400 Hz

³⁾ Coil consumption for version -04 is 3.8 VA/3.8 W

Contactors

IK INSTALLATION CONTACTORS

IK A20, IK D20, IK 21, IK A25, IK D25, IK 40, IK A40, IK 63, IK A63

TECHNICAL DATA FOR IK21, IK40, IK63, IKA40 and IKA63									
GENERAL	Type				IK21	IKA40	IK40	IKA63	IK63
	Standards				IEC/EN 61095, IEC/EN 60947-4-1, IEC 60947-5-1				
	Approvals				GOST	KEMA, GOST	KEMA, NF, GOST	KEMA, GOST	KEMA, NF, GOST
	Module width				2	3			
	Mechanical endurance		op. c.		3 x 10 ⁶				
	Ambient temperature		°C		-5 ... +55				
	Storage temperature		°C		-30 ... +80				
	No. of contactors (side-by-side)	≤ 40 °C			no limitation	no limitation	max. 3	no limitation	max. 3
		40 - 55 °C					max. 2		max. 2
	Contact reliability				17 V; ≥50 mA				
	Min. distance of open contacts		mm		3.6				
	Power dissipation per pole		W		2	4	8		
	Overload current withstand capability		A		40	176	240		
	Max. back-up fuse for short-circuit protection gL Coordination type 2		<i>I_v</i>	A	20	63	80		
	Max. operating frequency	DC-1 AC-1/AC-3/AC-5b/AC-6b AC-15 no load		c./h		300 600 1200 3000			
	Weight		kg		0.17	0.35	0.42	0.35	0.42
MAIN CIRCUIT	Rated insulation voltage	<i>U_i</i>	V	415	440		440		
	Rated impulse withstand voltage	<i>U_{imp}</i>	kV	4					
	Thermal current	<i>I_{th}</i>	A	20	40	63			
	Rated operational voltage	<i>U_e</i>	V	400					
	Rated frequency	<i>f</i>	Hz	50/60					
	Rated operational current	AC-1/AC-7a	<i>I_e</i>	A	20	40	63		
	Operational power	single-phase 230 V	<i>P_e</i>	kW	4	8.7	13.3		
	AC-1/AC-7a	three-phase 230 V			7.5	16	24		
		three-phase 400 V			13	26	40		
	Electrical endurance	AC-1/AC-7a		op. c.	200.000	100.000	100.000		
	Rated operational current	AC-3/AC-7b	<i>I_e</i>	A	5	22	30		
	Operational power	single-phase 230 V	<i>P_e</i>	kW	0.37 ¹⁾	3.7 ¹⁾	5 ¹⁾		
	AC-3/AC-7b	three-phase 230 V			1.1	5.5	8.5		
		three-phase 400 V			2.2	11	15		
	Electrical endurance	AC-3/AC-7b		op. c.	300.000	150.000	150.000		
	Switching of capacitors	AC-6b	<i>C</i>	μF	36	220	330		
Electrical endurance	AC-6b		op. c.	100.000					
DC-1 (L/R ≤ 1 ms) Rated operational current:									
1 pole	<i>U_e</i> = 24 V DC	A	A	20	40	63			
	<i>U_e</i> = 48 V DC			12	24	26			
	<i>U_e</i> = 60 V DC			6	18	20			
	<i>U_e</i> = 110 V DC			2	4	4			
	<i>U_e</i> = 220 V DC			0.5	1.2	1.2			
2 poles connected in series	<i>U_e</i> = 24 V DC			20	40	63			
	<i>U_e</i> = 48 V DC			15	38	42			
	<i>U_e</i> = 60 V DC			10	32	34			
	<i>U_e</i> = 110 V DC			4	10	10			
	<i>U_e</i> = 220 V DC			1.5	8	8			

1) Data for single-phase power are valid for versions -22, -20 and -02

Contactors

IK INSTALLATION CONTACTORS

IKA20, IKD20, IK21, IKA25, IKD25, IK40, IKA40, IK63, IKA63

TECHNICAL DATA FOR IK21, IK40, IK63, IKA40 and IKA63							
MAIN CIRCUIT	Type		IK21	IKA40	IK40	IKA63	IK63
	DC-1 ($L/R \leq 1$ ms) Electrical endurance:						
	3 poles connected in series	$U_e = 24$ V DC $U_e = 48$ V DC $U_e = 60$ V DC $U_e = 110$ V DC $U_e = 220$ V DC	A	20 20 20 6 2.5	40 40 40 30 20		63 63 60 35 30
	4 poles connected in series	$U_e = 24$ V DC $U_e = 48$ V DC $U_e = 60$ V DC $U_e = 110$ V DC $U_e = 220$ V DC		20 20 20 6 3.5	40 40 40 40 40		63 63 63 63 63
	Electrical endurance	DC-1	op. c.	100.000			
	DC-3 ($L/R \leq 2$ ms) Electrical endurance:		A				
	1 pole	$U_e = 24$ V DC $U_e = 48$ V DC $U_e = 60$ V DC $U_e = 110$ V DC $U_e = 220$ V DC		10 5 2 1 0.1	22 10 5 1.5 0.3		25 11 5 1.5 0.3
	2 poles connected in series	$U_e = 24$ V DC $U_e = 48$ V DC $U_e = 60$ V DC $U_e = 110$ V DC $U_e = 220$ V DC		20 10 8 4 0.4	40 20 16 5 1		45 22 18 5 1
	3 poles connected in series	$U_e = 24$ V DC $U_e = 48$ V DC $U_e = 60$ V DC $U_e = 110$ V DC $U_e = 220$ V DC		20 20 15 6 2.5	40 40 32 15 4		63 45 35 18 5
	4 poles connected in series	$U_e = 24$ V DC $U_e = 48$ V DC $U_e = 60$ V DC $U_e = 110$ V DC $U_e = 220$ V DC		20 20 15 6 3.5	40 40 40 40 10		63 63 63 63 10
Electrical endurance	DC-3	op. c.	100.000				
DC-5 ($L/R \leq 7,5$ ms) Electrical endurance:							
1 pole	$U_e = 24$ V DC $U_e = 48$ V DC $U_e = 60$ V DC $U_e = 110$ V DC $U_e = 220$ V DC		10 4 1 0.3 0.06	20 8 4 1 0.2		25 10 5 1 0.2	
2 poles connected in series	$U_e = 24$ V DC $U_e = 48$ V DC $U_e = 60$ V DC $U_e = 110$ V DC $U_e = 220$ V DC	A	20 8 6 2 0.2	40 18 14 5 0.8		45 20 15 5 0.8	

Contactors

IK INSTALLATION CONTACTORS

IKA20, IKD20, IK21, IKA25, IKD25, IK40, IKA40, IK63, IKA63

TECHNICAL DATA FOR IK21, IK40, IK63, IKA40 and IKA63											
MAIN CIRCUIT	Tip				IK21	IKA40	IK40	IKA63	IK63		
	DC-5 (L/R ≤ 7,5 ms) Electrical endurance:										
	3 poles connected in series			$U_e = 24$ V DC	20	40			63		
				$U_e = 48$ V DC	20	40			44		
				$U_e = 60$ V DC	15	28			30		
				$U_e = 110$ V DC	5	12			15		
				$U_e = 220$ V DC	1.5	3			4		
	4 poles connected in series			$U_e = 24$ V DC	20	40			63		
				$U_e = 48$ V DC	20	40			63		
				$U_e = 60$ V DC	15	40			60		
			$U_e = 110$ V DC	5	35			45			
			$U_e = 220$ V DC	3	8			10			
Electrical endurance			DC-5	op. c.	100.000						
Terminal capacity			rigid flexible	S	mm ²	1 ... 2.5 1 ... 2.5	1.5 ... 25 1.5 ... 16				
Screw						M3.5	M5				
Head screw						PZ2					
Tightening torque					Nm	1.2	3.5				
AUXILIARY CIRCUIT	Rated operational voltage			U_e	V	400					
	Rated insulation voltage			U_i	V	415	440				
	Rated impulse withstand voltage			U_{imp}	kV	4					
	Thermal current			I_{th}	A	20	40	63			
	AC-15 Rated operational current			single-phase 230 V single-phase 400 V	I_e	A	6 4				
	Electrical endurance			AC-15	op. c.	300.000	150.000	150.000			
CONTROL CIRCUIT	Range at control voltage			U_c	%	85 ... 110					
	Kind of voltages					AC	AC	AC, DC	AC	AC, DC	
	Control voltage			U_c	V	12 ... 230					
	Frequency (AC)			f	Hz	50/60 ²⁾					
	Surge immunity test (1,2/50 μs), acc. to IEC/EN 61000-4-5				kV	2					
	Coil consumption			switch-on operation		VA/W	30/25 5/1.5	15.4/6 7.7/3	5/5 5/5	15.4/6 7.7/3	5/5 5/5
	Make/break delays			make break		ms	7 – 20 10 – 20	10 – 20 10 – 15	15 – 20 35 – 45	10 – 20 10 – 15	15 – 20 35 – 45
	Terminal capacity			rigid flexible	S	mm ²	1 ... 2.5 1 ... 2.5				
	Screw						M3.5	M3			
	Screw head						PZ2	PZ1			
	Tightening torque					Nm	0.6				

²⁾ IK40 and IK63 can be controlled by ac voltage with frequency from 40 Hz to 400 Hz

Contactors

IK INSTALLATION CONTACTORS

IKA20, IKD20, IK21, IKA25, IKD25, IK40, IKA40, IK63, IKA63

SWITCHING OF LAMPS							
Type	Power (W)	Current (A)	C (μF)	Max. number of lamps per pole at 230 V 50 Hz			
				IKA20, IKD20, IK21	IKA25, IKD25	IKA40, IK40	IKA63, IK63
Incandescent lamps and tungsten halogen lamps	15	0.07	–	130	130	260	330
	25	0.11	–	80	80	160	200
	40	0.18	–	50	50	100	125
	60	0.26	–	33	66	65	85
	75	0.33	–	26	26	53	66
	100	0.44	–	20	20	40	50
	150	0.65	–	13	13	26	33
	200	0.87	–	10	10	20	25
	300	1.30	–	6	6	13	16
	500	2.17	–	3	3	8	10
	1000	4.35	–	1	1	4	5
Energy saving lamps	3	0.03	–	50	60	150	200
	5	0.04	–	45	55	135	180
	7	0.055	–	40	50	120	160
	8	0.065	–	35	45	110	150
	9	0.075	–	30	40	100	140
	10	0.08	–	30	40	100	140
	11	0.09	–	30	40	100	140
	12	0.1	–	25	35	95	120
	14	0.11	–	25	35	90	120
	15	0.12	–	20	30	85	115
	16	0.13	–	20	30	80	105
	18	0.145	–	18	26	70	95
	20	0.16	–	17	22	65	85
	21	0.17	–	15	20	60	80
23	0.185	–	15	20	60	70	
24	0.195	–	15	20	55	70	
30	0.16	–	15	20	55	70	
Compact fluorescent lamps - series correction	10	0.19	1,4	50	60	105	165
	13	0.18	1,4	50	60	105	165
	18	0.23	1,7	40	50	85	135
	26	0.33	2,5	30	35	60	95
	18	0.38	2,7	25	30	50	80
	24	0.35	2,7	25	30	50	80
36	0.44	3,4	20	25	45	70	
Compact fluorescent lamps - parallel correction	5	0.18	2,2	13	16	100	150
	7	0.18	2,1	14	17	104	157
	9	0.17	2,0	15	18	110	165
	10	0.19	2,2	13	16	100	150
	11	0.16	1,7	17	21	125	194
	13	0.18	1,8	16	20	120	183
	18	0.23	2,3	13	15	95	143
	26	0.33	3,3	9	11	66	100
	18	0.38	4,2	7	8	52	78
	24	0.35	3,6	8	10	61	91
	36	0.44	4,4	6	8	50	75

Contactors

IK INSTALLATION CONTACTORS

IKA20, IKD20, IK21, IKA25, IKD25, IK40, IKA40, IK63, IKA63

SWITCHING OF LAMPS

Type	Power (W)	Current (A)	C (μF)	Max. number of lamps per pole at 230 V 50 Hz			
				IKA20, IKD20, IK21	IKA25, IKD25	IKA40, IK40	IKA63, IK63
Compact fluorescent lamps with electronic control gear (ECG)	5	0.05	–	45	63	180	250
	7	0.05	–	45	63	180	250
	9	0.07	–	32	45	128	180
	10	0.07	–	32	45	128	180
	11	0.07	–	32	45	128	180
	13	0.07	–	32	45	128	180
	18	0.22	–	10	14	40	57
	24	0.22	–	10	14	40	57
	26	0.22	–	10	14	40	57
	32	0.22	–	10	14	40	57
	36	0.22	–	10	14	40	57
	40	0.22	–	10	14	40	57
	42	0.22	–	10	14	40	57
	55	0.28	–	8	11	32	45
	57	0.28	–	8	11	32	45
	70	0.35	–	6	9	25	36
	80	0.41	–	5	8	22	30
	120	0.58	–	4	5	15	22
	2 x 9	0.11	–	2 x 16	2 x 22	2 x 90	2 x 125
	2 x 10	0.11	–	2 x 16	2 x 22	2 x 90	2 x 125
	2 x 11	0.11	–	2 x 16	2 x 22	2 x 90	2 x 125
	2 x 13	0.11	–	2 x 16	2 x 22	2 x 90	2 x 125
	2 x 18	0.30	–	2 x 5	2 x 7	2 x 20	2 x 28
2 x 24	0.31	–	2 x 5	2 x 7	2 x 20	2 x 28	
2 x 26	0.31	–	2 x 5	2 x 7	2 x 20	2 x 28	
2 x 32	0.31	–	2 x 5	2 x 7	2 x 20	2 x 28	
2 x 36	0.31	–	2 x 5	2 x 7	2 x 20	2 x 28	
2 x 40	0.40	–	2 x 4	2 x 6	2 x 18	2 x 26	
2 x 42	0.40	–	2 x 4	2 x 6	2 x 18	2 x 26	
2 x 55	0.55	–	2 x 3	2 x 5	2 x 16	2 x 22	
2 x 57	0.55	–	2 x 3	2 x 5	2 x 16	2 x 22	
Fluorescent lamps - uncorrected or series correction	11	0.16	1.3	55	70	125	200
	18	0.37	2.7	22	24	90	140
	24	0.35	2.5	22	24	90	140
	36	0.43	3.4	17	20	65	95
	58	0.67	5.3	14	17	45	70
	65	0.67	5.3	14	17	35	50
Fluorescent lamps - lead-lag circuit	2 x 11	0.07	–	2 x 50	2 x 60	2 x 140	2 x 200
	2 x 18	0.11	–	2 x 30	2 x 40	2 x 100	2 x 150
	2 x 24	0.14	–	2 x 24	2 x 31	2 x 78	2 x 118
	2 x 36	0.22	–	2 x 17	2 x 24	2 x 65	2 x 95
	2 x 58	0.35	–	2 x 10	2 x 14	2 x 40	2 x 60
	2 x 65	0.35	–	2 x 9	2 x 13	2 x 30	2 x 45
	2 x 85	0.47	–	2 x 6	2 x 10	2 x 20	2 x 30

Contactors

IK INSTALLATION CONTACTORS

IKA20, IKD20, IK21, IKA25, IKD25, IK40, IKA40, IK63, IKA63

SWITCHING OF LAMPS							
Type	Power (W)	Current (A)	C (μF)	Max. number of lamps per pole at 230 V 50 Hz			
				IKA20, IKD20, IK21	IKA25, IKD25	IKA40, IK40	IKA63, IK63
Fluorescent lamps - parallel correction	11	0.16	3.5	9	10	62	94
	18	0.37	4.5	7	8	48	73
	24	0.35	4.5	7	8	48	73
	36	0.34	4.5	7	8	48	73
	58	0.67	7.0	4	5	31	47
	65	0.67	7.0	4	5	31	47
	85	0.80	8.0	3	4	27	41
Fluorescent lamps with electronic control gear (ECG)	18	0.09	–	25	35	100	140
	36	0.16	–	15	20	52	75
	58	0.25	–	14	19	50	72
	2 x 18	0.17	–	2 x 12	2 x 17	2 x 50	2 x 70
	2 x 36	0.32	–	2 x 7	2 x 10	2 x 26	2 x 38
2 x 58	0.49	–	2 x 7	2 x 9	2 x 25	2 x 36	
High-pressure mercury-vapour lamps - uncorrected	50	0.61	–	14	18	38	55
	80	0.80	–	10	13	29	42
	125	1.15	–	7	9	20	29
	250	2.15	–	4	5	10	15
	400	3.25	–	2	3	7	10
	700	5.40	–	1	2	4	6
	1000	7.50	–	1	1	3	4
High-pressure mercury-vapour lamps - parallel correction	50	0.28	7	4	5	31	47
	80	0.41	8	4	5	27	41
	125	0.65	10	3	4	22	33
	250	1.22	18	1	2	12	18
	400	1.95	25	1	1	9	13
	700	3.45	45	–	–	5	7
	1000	4.80	60	–	–	4	5
Metal halide lamps - uncorrected	35	0.35	–	18	22	43	60
	70	1.00	–	10	12	23	32
	150	1.80	–	5	7	12	18
	250	3.00	–	3	4	7	10
	400	3.50	–	3	3	6	9
	1000	9.50	–	1	1	2	3
	2000	16.50	–	–	–	1	1
Metal halide lamps - parallel correction	35	0.25	6	5	6	36	50
	70	0.45	12	2	3	18	25
	150	0.75	20	1	1	11	15
	250	1.50	33	–	1	6	9
	400	2.50	35	–	1	6	8
	1000	5.80	95	–	–	2	3
	2000	11.50	148	–	–	1	2

Contactors

IK INSTALLATION CONTACTORS

IKA20, IKD20, IK21, IKA25, IKD25, IK40, IKA40, IK63, IKA63

SWITCHING OF LAMPS							
Type	Power (W)	Current (A)	C (μF)	Max. number of lamps per pole at 230 V 50 Hz			
				IKA20, IKD20, IK21	IKA25, IKD25	IKA40, IK40	IKA63, IK63
Metal halide lamps with electronic control gear (PCI) + 50-125x I_n lamp for 0,6 ms	20	0.10	–	9	9	18	20
	35	0.20	–	6	6	11	13
	70	0.36	–	5	5	10	12
	150	0.70	–	4	4	8	10
High-pressure sodium-vapour lamps - uncorrected	150	1.8	–	5	6	17	22
	250	3.0	–	3	4	10	13
	400	4.7	–	2	2	6	8
	1000	10.3	–	–	1	3	3
High-pressure sodium-vapour lamps - correction	150	0.83	20	1	1	11	16
	250	1.50	33	–	1	6	10
	400	2.40	48	–	–	4	6
	1000	6.30	106	–	–	2	3
High-pressure sodium-vapour lamps with electronic control gear (PCI) + 50-125 x I_n lamp for 0,6 ms	20	0.10	–	9	9	18	20
	35	0.20	–	6	6	11	13
	70	0.36	–	5	5	10	12
	150	0.70	–	4	4	8	10
Low-pressure sodium-vapour lamps - uncorrected	18	0.35	–	22	27	71	90
	35	1.50	–	7	9	23	30
	55	1.50	–	7	9	23	30
	90	2.40	–	4	5	14	19
	135	3.50	–	3	4	10	13
	180	3.50	–	3	4	10	13
Low-pressure sodium-vapour lamps - parallel correction	18	0.35	5	6	7	44	66
	35	0.31	20	1	1	11	16
	55	0.42	20	1	1	11	16
	90	0.63	26	1	1	8	12
	135	0.94	45	–	–	4	7
	180	1.16	40	–	–	5	8
Transformers for low-voltage tungsten halogen lamps	20	–	–	40	52	110	174
	50	–	–	20	24	50	80
	75	–	–	13	16	35	54
	100	–	–	10	12	27	43
	150	–	–	7	9	19	29
	200	–	–	5	6	14	23
	300	–	–	3	4	9	14

Contactors

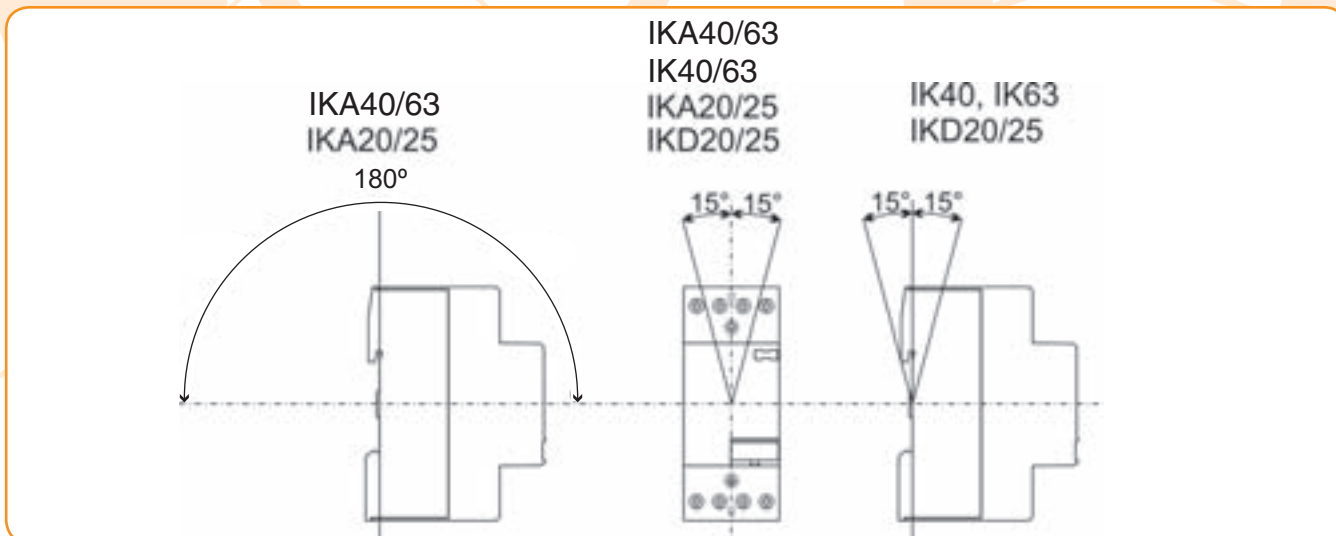
IK INSTALLATION CONTACTORS

IKA20, IKD20, IK21, IKA25, IKD25, IK40, IKA40, IK63, IKA63

SWITCHING OF LAMPS							
Type	Power (W)	Current (A)	C (μF)	Max. number of lamps per pole at 230 V 50 Hz			
				IKA20, IKD20, IK21	IKA25, IKD25	IKA40, IK40	IKA63, IK63
Fluorescent lamps T5 with electronic control gear (ECG)	22	0.11	FC	22	30	80	110
	40	0.21		12	15	40	60
	55	0.28		8	12	30	45
	14	0.08	HE	30	40	105	150
	21	0.11		22	30	80	115
	28	0.14		18	22	60	90
	35	0.18		14	18	48	70
	24	0.12	HO	20	26	70	100
	39	0.20		12	16	42	62
	49	0.24		10	14	35	52
	54	0.27		9	13	32	47
	80	0.39		6	8	22	32
	2 x 22	0.23	2 x FC	2 x 11	2 x 15	2 x 40	2 x 55
	2 x 40	0.42		2 x 6	2 x 7	2 x 20	2 x 30
	2 x 55	0.55		2 x 4	2 x 6	2 x 15	2 x 22
	2 x 14	0.15	2 x HE	2 x 15	2 x 20	2 x 52	2 x 75
	2 x 21	0.22		2 x 11	2 x 15	2 x 40	2 x 57
	2 x 28	0.28		2 x 9	2 x 11	2 x 20	2 x 45
	2 x 35	0.36		2 x 7	2 x 9	2 x 24	2 x 35
	2 x 24	0.24		2 x HO	2 x 10	2 x 13	2 x 35
2 x 39	0.39	2 x 6	2 x 8		2 x 21	2 x 31	
2 x 49	0.48	2 x 5	2 x 7		2 x 17	2 x 26	
2 x 54	0.54	2 x 4	2 x 6		2 x 16	2 x 23	
2 x 80	0.74	2 x 3	2 x 4		2 x 11	2 x 16	

IK21 contactors operation position is optional.

Operation position for contactors IKA20, IKD20, IKA25, IKD25, IK40, IKA40, IK63 and IKA63:

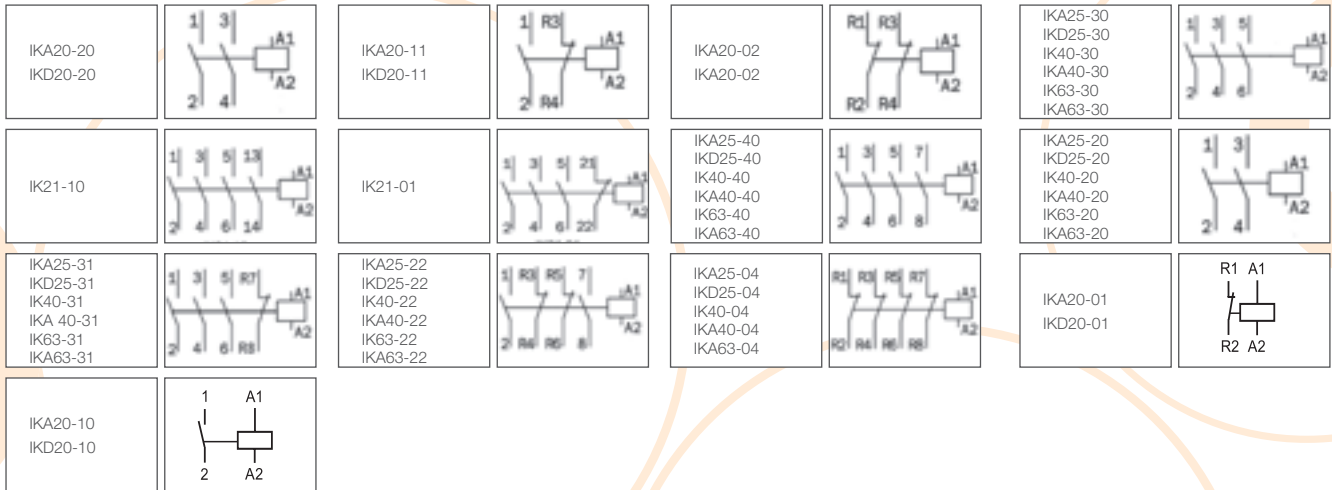


Contactors

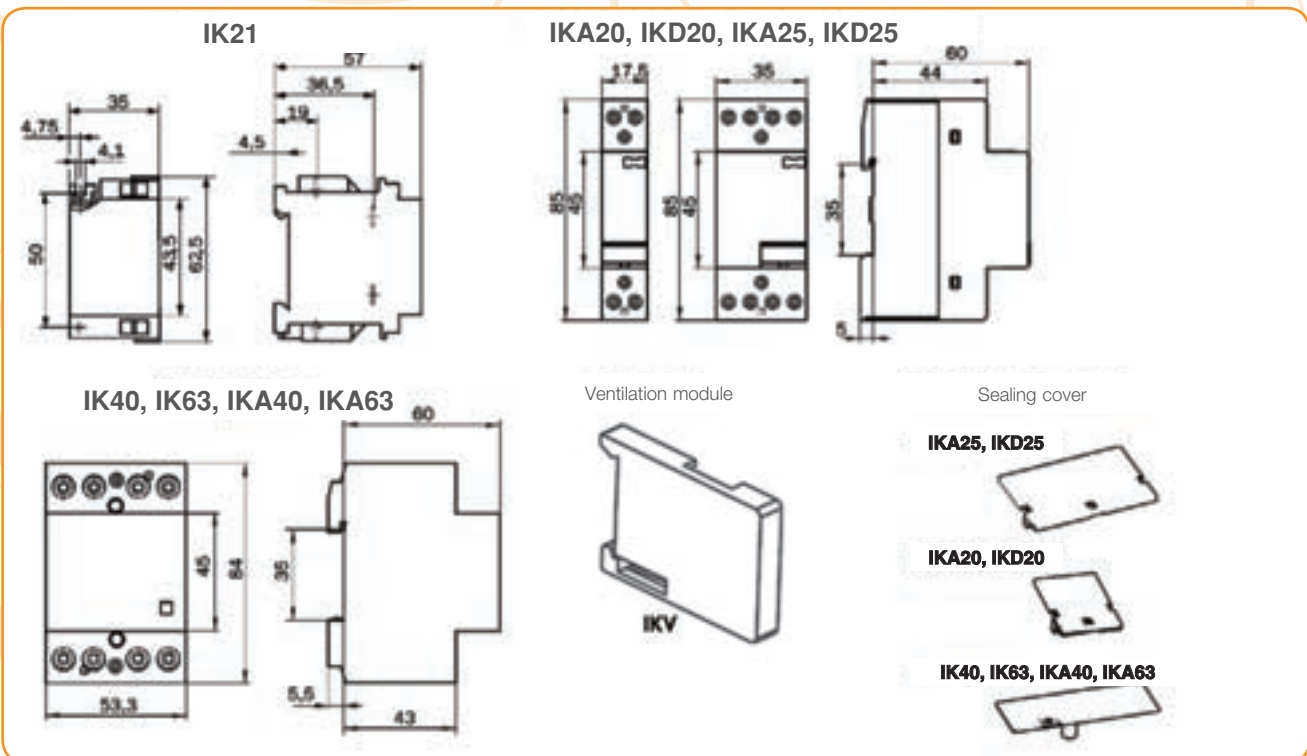
IK INSTALLATION CONTACTORS

IK A20, IK D20, IK 21, IK A25, IK D25, IK 40, IK A40, IK 63, IK A63

CONTACT ARRANGEMENTS



DIMENSIONS



ORDERING DATA

The type designation and control voltage should be stated when ordering the contactors.

IK63 - 40 / 220/230

