

INSTALLATION CONTACTORS FOR RAILWAY APPLICATIONS



INSTALLATION CONTACTORS ARE THE MOST FLEXIBLE SWITCHING DEVICES FOR USE IN ALL TYPES OF APPLICATIONS. IN ELECTRONIC SYSTEM PROVIDE RELIABLE, SAFE AND EFFICIENT MANAGEMENT OF ELECTRICAL EQUIPMENT.

ADVANTAGES

- Operation temperature from -40 °C up to +70 °C
- DC coil operation from 0.7 Uc up to 1.25 Uc
- 1 and 2 module width
- Shock and vibration resistance

FOR RELIABLE SWITCHING

- Signalization
- Doors
- Heating
- Lights and lighting
- Ventilation and air conditioning

OTHER BENEFITS

- Fast switching
- Wide application
- Mounting on 35 mm rail
- Sealing terminal covers

STANDARDS

- IEC/EN 60947-4-1
- IEC/EN 60095
- IEC/EN 60077-1, IEC/EN 60077-2
- EN 50155
- IEC/EN 60373
- EN 45545-2

INSTALLATION CONTACTORS FOR RAILWAY APPLICATIONS

UP TO 25 A

Type	Symbol	Unit	IKD20-V	IKD25-V
Standards			IEC/EN 60947-1, IEC/EN 61095, IEC/EN 60077-1/-2, IEC/EN 61373, EN 45545-2	
Approvals			CE	
Module width			1	2
Ambient temperature (open)	°C		-40 ... +70	
Storage temperature	°C		-40 ... +80	
Number of contactors or switches side-by-side: ≤40 °C (40 ... 55) °C			no limitation	max. 2 max. 1
Maximum operating frequency: AC-1/AC-7a/AC-3/AC-7b DC-1, DC-5, DC-13 No load			600 300 3000	
Vibration resistance according to SIST EN 61373 category 1, class B	a	g	X, Y, z axis	
Shock resistance according to SIST EN 61373 category 1, class B	a	g	X, Y, z axis	
Mechanical endurance		op. c.	10.000.000	
Weight		g	130	250
Contact reliability			≥17 V; ≥50 mA	
Minimum distance of open contacts		mm	3.6	
Power dissipation per pole		W	1.7	2.2
Overload current withstand capability: 10 s		A	72	68
Maximum back-up fuse for short-circuit protection gL and gG: coordination type 1	I _v	A	20	25
Rated insulation voltage	U _i	V	440	
Rated impulse withstand voltage	U _{imp}	kV	4	
Rated operational voltage	U _e	V	230	400
Rated frequency	f	Hz	50/60	
Thermal current	I _{th}	A	20	25
Rated operational current for AC-1, AC-7a and AC-21	I _e	A	20	25
Operational power for AC-1, AC-7a: single-phase 230 V	P _e	kW	7	5.4
Electrical endurance for AC-1, AC-7a		op. c.	150.000	200.000
Rated operational current for AC-3/ AC-7b	I _e	A	NO: 9; NC: 6	8.5
Operational power for AC-3, AC-7b: single-phase 230 V	P _e	kW	NO: 1.3; NC: 0.75	1.3
Electrical endurance for AC-2		op. c.	200.000	500.000
Rated operational current for DC-1 (L/R < 1 ms): 24 V DC / 36 V DC / 110 V DC	I _e	A	20/20/8	25/20/6
Electrical endurance for DC-1		op. c.	200.000	100.000
Rated operational current for DC-5 (L/R < 7.5 ms): 24 V DC / 36 V DC / 110 V	I _e	A	20/15/4	15/5/0.5
Electrical endurance for DC-5		op. c.	300.000	100.000
Rated operational current for DC-13: 24 V DC / 36 V DC / 110 V	I _e	A	20/10/2	6/4/0.3
Electrical endurance for DC-13		op. c.	200.000	
Terminal capacity: rigid	S	mm ²	1 ... 10	
flexible			1 ... 6	
Screw head			PZ1	
Tightening torque		Nm	1.2	
Range of control voltage	U _c	%	70 ... 125	
Kind of voltage			DC	
Standard control voltage	U _c	V	24, 36, 48, 110	
Surge immunity test (1.2/50 µs) acc. to standard IEC/EN 61000-4-5		kV	2	
Coil consumption switch-on		VA/W	2.6 / 2.6	4.3 / 4.3 *
operation			2.6 / 2.6	4.3 / 4.3
Delays: make		ms	15 - 45	15 - 45
brake			20 - 50	20 - 70
Terminal capacity: rigid (solid and stranded)	S	mm ²	1 ... 2.5	
flexible			1 ... 2.5	
Screw head			PZ1	
Tightening torque		Nm	0.6	

* For version -04 is 4.6 VA / 4.6 W

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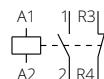
UP TO 25 A

Wiring diagram

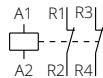
IKD20-20-V



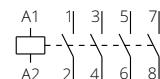
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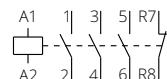
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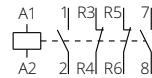
IKD25-40-V



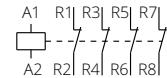
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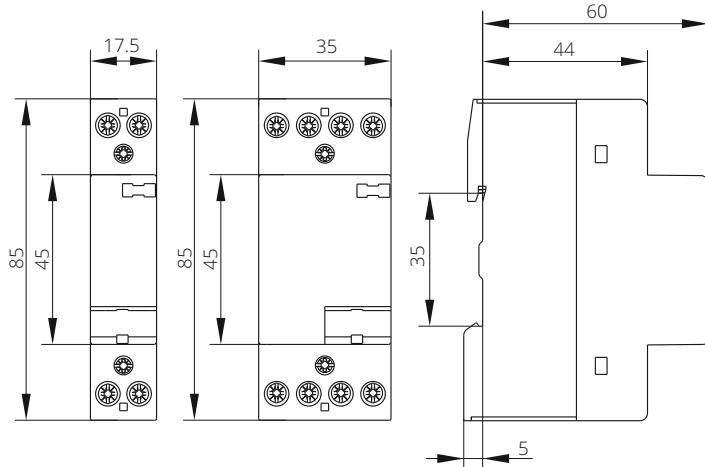
IKD25-22-V



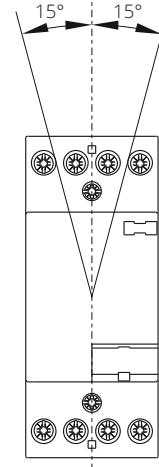
IKD25-04-V



Dimensions (in millimeters)



Operation position



ORDERING DATA

IKD20 - 20-V / 24 V DC

Control voltage

Version of contacts

Basic type



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