



Features

- 1-module width
- 2 main contacts
- DC coil operation
- Thermal current: 20 A
- Rated current AC-1: 20 A / 230 V
- Rated current DC-5: 4 A / 110 V

Standards

- IEC/EN 60947-4-1
- IEC/EN 61095
- IEC/EN 600077-1, IEC/EN 60077-2
- EN 50155
- IEC/EN 61373
- EN 45545-2

Other benefits

- Integrated permanent magnets
- Fast switching of loads
- Mounting on 35 mm rail
- Degree of protection IP20.



Installation Contactors for Railway Application

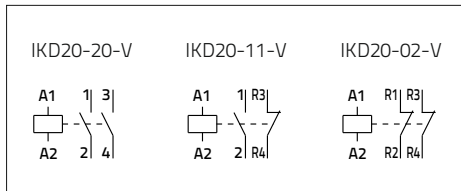
Technical data			IKD20-V
General			
Standard			IEC/EN 60947-4-1, IEC/EN 61095, IEC/EN 60077-1/-2, EN 50155, IEC/EN 61373, EN 45545-2
Module width (1 module width = 17.5 mm)			1
Mechanical endurance			10×10^6
Ambient temperature		°C	-40 ... +70
Storage temperature		°C	-40 ... +80
No. of contactors side-by-side	≤ 40 °C		max.2
	40 - 70 °C		max.1
Contact reliability			$17 V_i \geq 50 \text{ mA}$
Min. distance of open contacts		mm	3.6
Power dissipation per pole		W	1.7
Overcurrent withstand capability (10 s)		A	72
Max. back-up fuse for short-circuit protection gG (gL) - coordination type 1		I_v A	20
Max. operating frequency	DC-1, DC-5, DC-13	op.c.	300
	AC-1/AC-7a/AC-3/AC-7b		600
	No load		3000
Weight		kg	0.13
Main circuit			
Rated insulation voltage		U_i V	440
Rated impulse withstand voltage		U_{imp} kV	4
Thermal current		I_{th} A	20
Rated operational voltage		U_e V	230
Rated frequency		f Hz	50/60
Rated operational current AC-1/AC-7a		I_e A	20
Operational power for AC-1/AC-7a	single-phase 230V	P_e kW	7.0
Electric endurance for AC-1/AC-7a		op.c.	150.000
Rated operational current AC-3/AC-7b		I_e A	NO: 9; NC: 6
Operational power for AC-3/AC-7b	single-phase 230V	P_e kW	NO: 1.3; NC: 0.75
Electric endurance for AC-3/AC-7b		op.c.	200.000
Rated operational current DC-1	$L/R < 1 \text{ ms}$	I_e A	20 / 20 / 8
24 V / 36 V / 110 V			
Electric endurance DC-1		op.c.	200.000
Rated operational current DC-5	$L/R < 7.5 \text{ ms}$	I_e A	20 / 15 / 4
24 V / 36 V / 110 V			
Electric endurance for DC-5		op.c.	300.000
Rated operational current DC-13	$L/R < 300 \text{ ms}$	I_e A	20 / 10 / 2
24 V / 36 V / 110 V			
Electric endurance for DC-13		op.c.	200.000
Terminal capacity	rigid	S	mm ²
	flexible		
			1 ... 10
			1 ... 6
Screw			M3.5
Screw head		Nm	PZ1
Tightening torque		Nm	1.2

Efficient installations

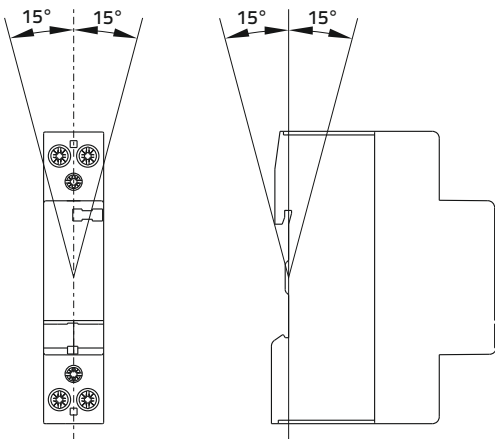
Installation Contactors for Railway Application

Technical data				IKD20-V	
Control circuit					
Range of control voltage	U_c	%		70 ... 125	
Kind of voltage				DC	
Standard control voltages	U_c	V		24, 36, 48, 110	
Surge immunity test (1.2/ 50 μ s) acc. to IEC/EN 61000-4-5			kV	2	
Coil consumption	switch-on		VA/W	2.6 / 2.6	
	operation			2.6 / 2.6	
Delays	make		ms	15 - 45	
	break			20 - 50	
Terminal capacity	rigid	S	mm ²	1 ... 2.5	
	flexible			1 ... 2.5	
Tightening torque			Nm	0.6	

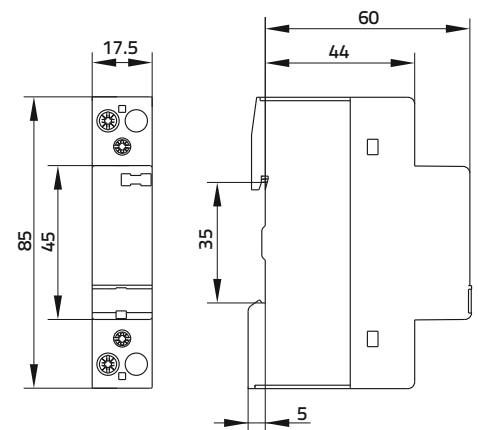
Contact arrangements



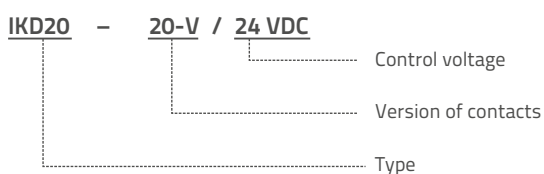
Operation position



Dimensions



Ordering data



Published by Iskra, d. d. • Version 1.0 November 2016