

Diode module

KAN-series

KAN-MD40



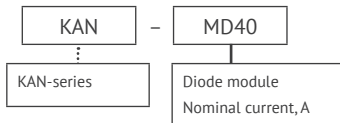
Basic specifications

Input voltage.....	=12...48 VDC
Output voltage.....	=12...48 VDC
Max. current.....	up to 50 A
Ambient operating temperature	-50...+70 °C
Dimensions	131×50×135 mm
Warranty.....	2 years

Features

- ◀ Wide operating temperature range -50...+70°C
- ◀ DIN-rail mounting (toolless assembly)
- ◀ Convective cooling

Ordering information



Output specifications*

Parameter	Value
Output voltage range, V	12 DC...48 DC
Output current, A	40
Characteristics change	50 °C...70 °C (1,25% / K)
Max. power dissipation, (nominal load)	22,8 W (I _{out} = 40 A)

Input specification*

Parameter	Value
Nominal input voltage range, V	12 DC...48 DC
Max. input voltage range, V	10 DC...60 DC
Nominal input current, A	2 × 20 (-50 °C...+50 °C)
	1 × 40 (-50 °C...+50 °C)
Max. input current, A	2 × 25 (-50 °C...+30 °C)
	1 × 50 (-50 °C...+30 °C)

Basic specifications

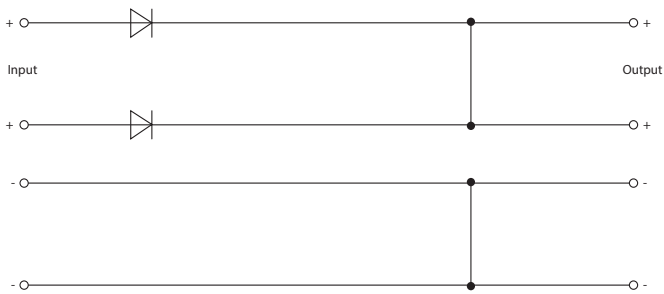
Parameter	Value
Degree of protection	IP20
Ambient temperature, operation , °C	-50...+70°C
Ambient temperature, storage, °C	-60...+85°C
Permissible humidity(operation)	98%/40°C
Isolation voltage in/out-case, V	1500
Cooling	convective
MTBF	2 500 000 h
Case material	metal
Dimensions (W×D×H), mm	131×50×135
Weight, kg	<1
Mounting position	Vertical, for horizontal DIN-rail TH35-7.5
Mounting instructions	Min gap between units: horizontal 5 mm, between active 15 mm; vertical 50 mm
Warranty	2 years

* All specifications are valid for normal climatic conditions, U_{in}. nom., I_{out}. nom., unless otherwise noted.

Terminal specification, input/output

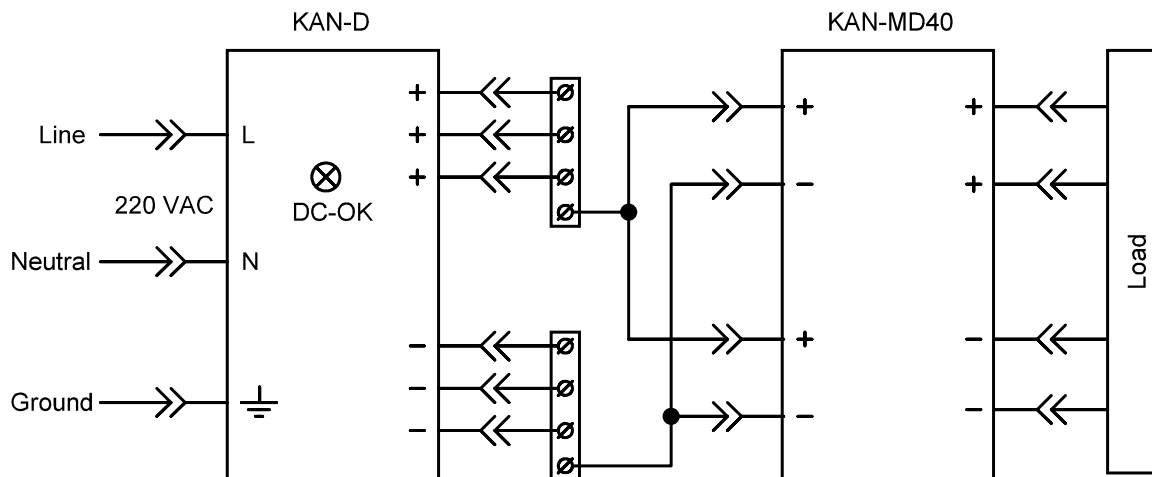
Type of connection	screw terminals
Cross section of the flexible conductor, mm ² (min)	0,2
Cross section of the flexible conductor, mm ² (max)	4
Cross section of AWG conductor, min	12
Cross section of AWG conductor, max	10
Strip length, mm	7
Screw thread	M3

Structure diagram

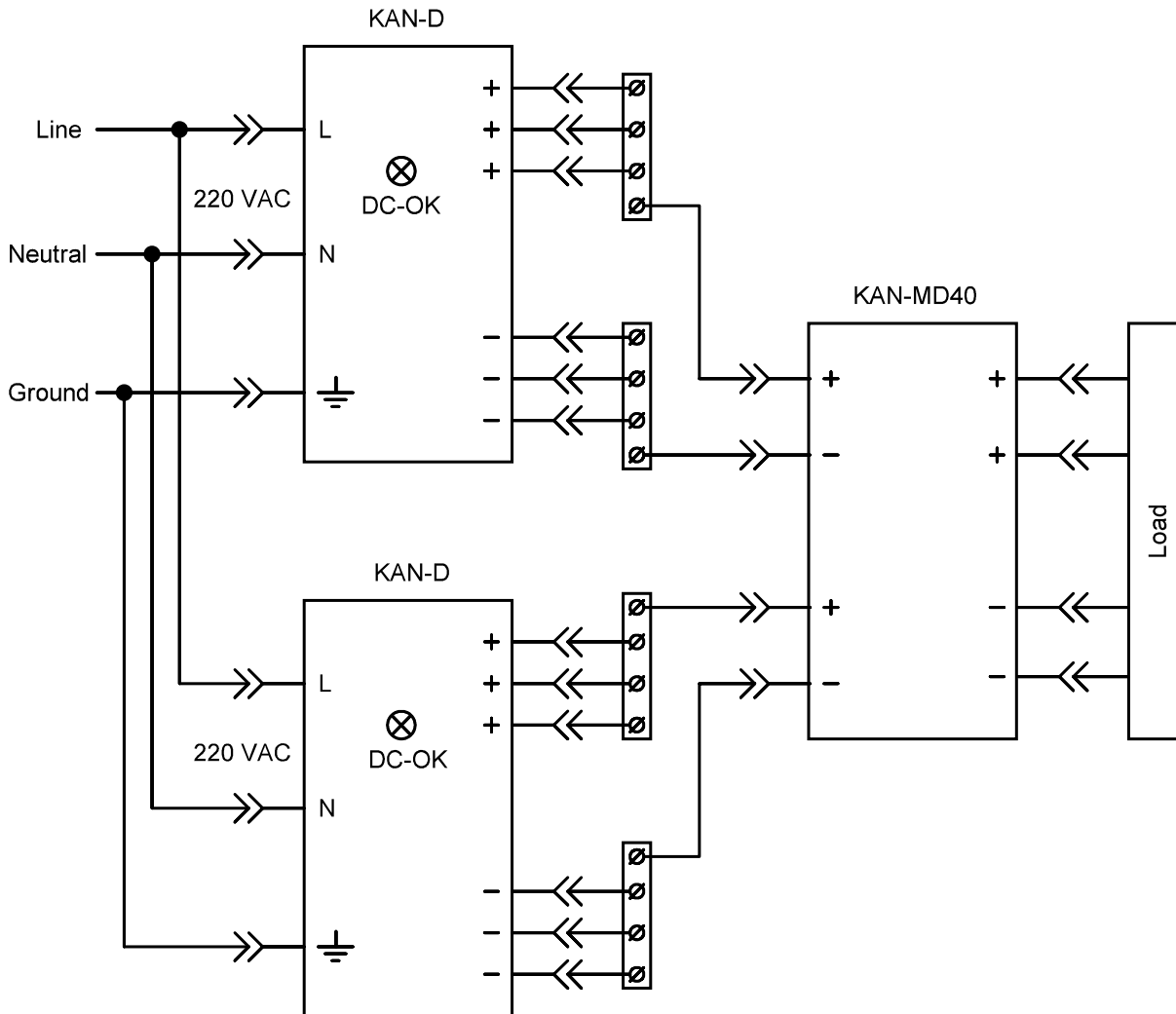


Connection diagram

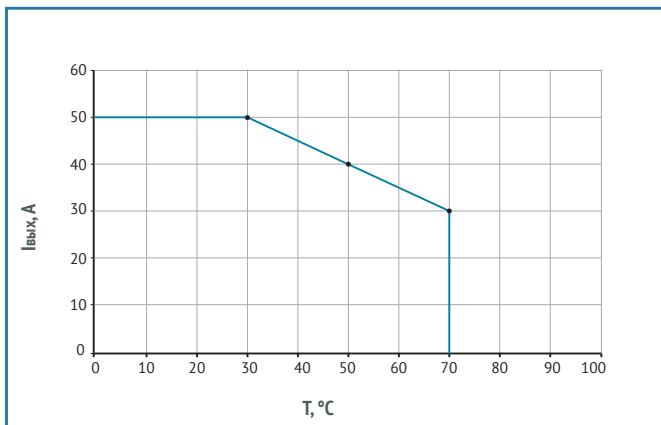
Application example KAN-MD40+KAN-D



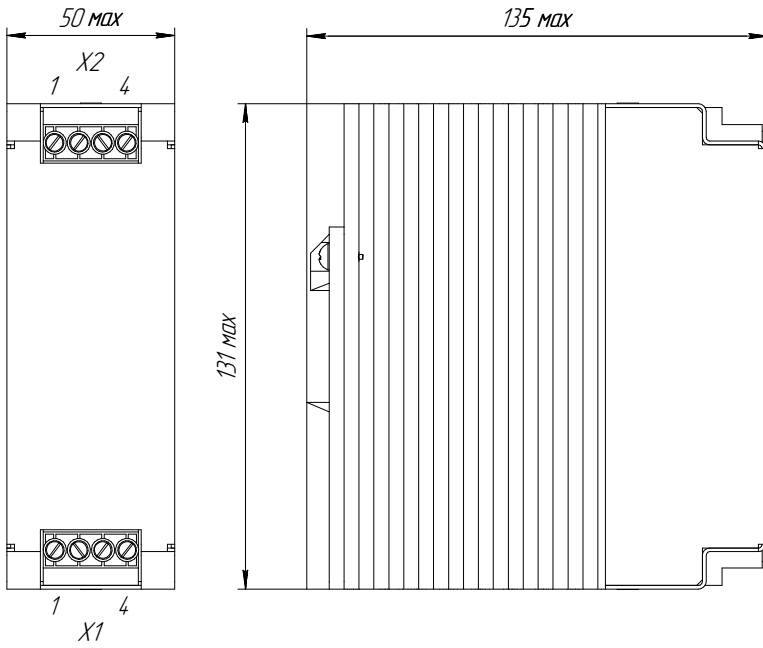
Application example KAN-MD40+KAN-D in parallel operation.



Output current derating vs Temperature



Dimensions



X1				X2			
1	2	3	4	1	2	3	4
+In1	-In1	+In2	-In2	+Out	+Out	-Out	-Out