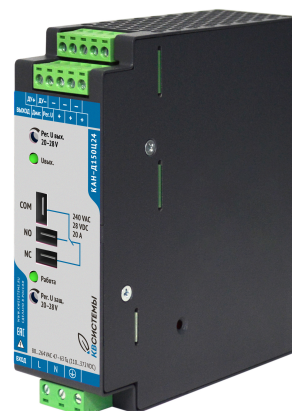


AC/DC power supply unit

KAN-D product line

KAN-D150, 150 W



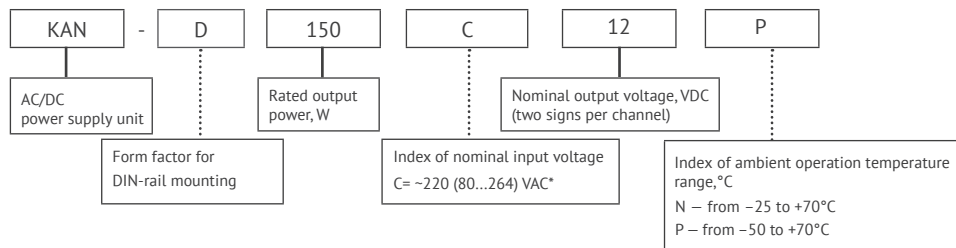
Global Data

Power	150 W
Output current	up to 12,5 A
Input voltage	~220 (80...264) V
Output voltage	=12 V; =24 V; =48 V
Efficiency	>90%
Ambient operating temperature	-25...+70 °C; -50...+70 °C
Dry contact.....	based on high-current relay
EMC standart	ENC55022 (CISPR22)
Replacement/Installation	Toolless
Installation.....	DIN rail
Dimensions	42×134×131 mm
Warranty	2 years

Advantages

- ◀ Parallel connection without additional components
- ◀ Compliance with SIL2 safety level
- ◀ Operation from -50 °C
- ◀ Serial connection

Ordering information



Output specifications***

Parameter			Value		
Model			KAN-D150C12P	KAN-D150C24P	KAN-D150C48P
Nominal output voltage, VDC			12	24	48
Output voltage adjustment range, MBCB	Built-in potentiometer ±16,7 %		10...14	20...28	40...52
	by Adj.U*** -4...+4 %		11,4...12,6	22,8...25,2	45,6...50,4
Efficiency, %			≥ 90		
Rated output current, A			12,5	6,25	3,13
Ripple and noise (peak-to-peak)			<2%		
Line and load regulation			no more 2%		
Start-up time***, sec			1 (Uin=220 VAC)		
Dry contact			Relay contacts dry contact(open state - voltage in nominal range)		
Serviceability output signal	Dry contact	Maximum switchable voltage and current	250 VAC/ 30 VDC/ 10 A		
		Relay current consumption, mA	90	45	25
		Relay cut-off voltage, V	8...10	18...20	36...40
	"Diag" output		open collector 100 mA, 45 V max		
Parallel operation****			without additional components		
Remote shutdown			off when 5...20 V (3...18 mA) is applied to the "remote control" terminals (polarity must be observed)		
Maximum load capacity, uF			33000	20000	5000

Input specifications*

Parameter		Value
Input voltage range, VAC		~80...264 =112...372
Mains frequency range, Hz		47-63 AC 0 DC
Consumed current, A		1.39 (~120 V) 0.76 (~220 V)
Inrush current pulse		25 A
Pre-fuse		5 (inert type, internal)
Power factor corrector		active
Power factor	~115 V; Pmax	0,99
	~230 V; Pmax	0,95

* For KAN-D150CXX

** All specifications are valid for normal climatic conditions Uin. nom., Iout. nom., unless otherwise noted.

*** Adjustment is performed by applying 0...5 V voltage to the lead Adj.U pin (0 V = Uout.nom + 4 %; 5 V = Uout.nom - 4 %).

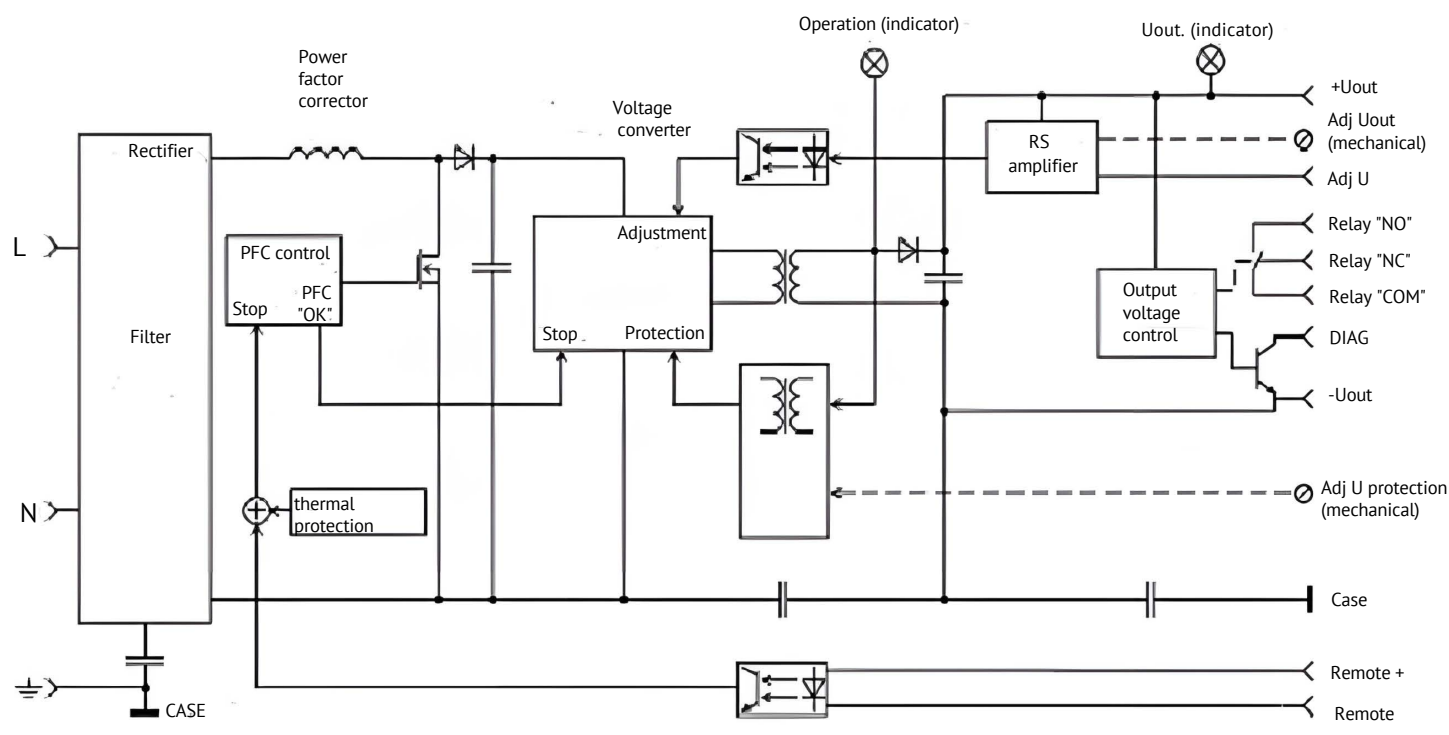
Protections

Type of protection	Value
circuit protection**	automatic restart after 5 sec. after the short-circuit has been removed
Overcurrent protection Pmax...1.2 Pnom	automatic restart after 5 sec after overload removal
Output voltage overload protection**	<125% Uout nom
Overheating protection	T ambient > 70 °C

Basic specifications

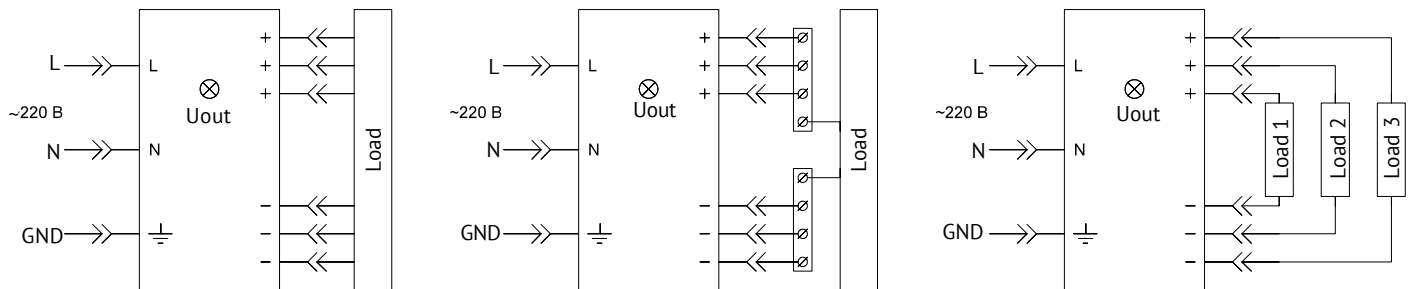
Parameter		Value
Type of connection		plug-in screw terminals
Derating		-2% / °C after +60°C
Degree of protection		IP20
EMC requirements		EN55022 (CISPR22), Class B
Ambient temperature, operation , °C	N	-25...+70°C
	P	-50...+70°C
Ambient temperature, storage, °C		-50...+70°C
Permissible humidity(operation)		85 % at t ° ambient +40 °C (95 % at t° ambient +25 °C)
Isolation voltage, V	in /case	~3000 VAC
	in /out	~3000 VAC
	out /case	~1500 VAC
Isolation resistance @ 500 VDC		≥ 20 MOhm min
Cooling		convectioanal
MTBF		1 400 000 Hrs
Case material		metal
Dimensions (W×D×H), mm		42×134×131
Weight, kg		no more than 0.9
Mounting position		Vertical, for horizontal DIN-rail
Mounting instructions		Indentation between modules should be 5 mm horizontally for non-active modules and 15 mm for active modules. Vertically, there should be a minimum of 50 mm.
Warranty		2 year

Block diagram

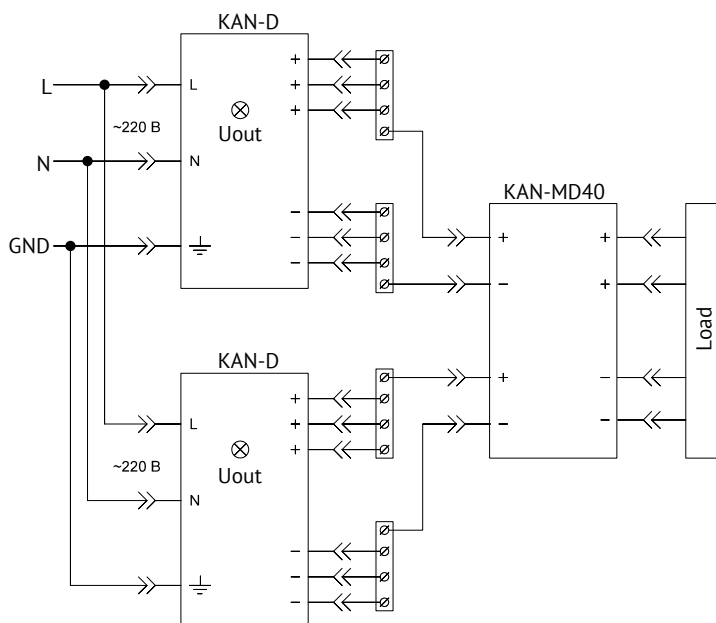


Connection diagram

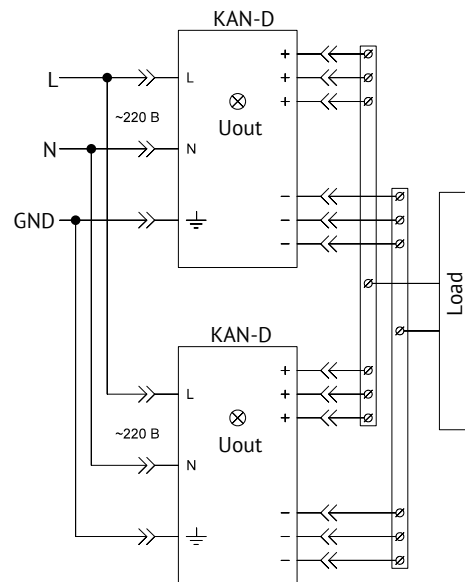
Typical connection



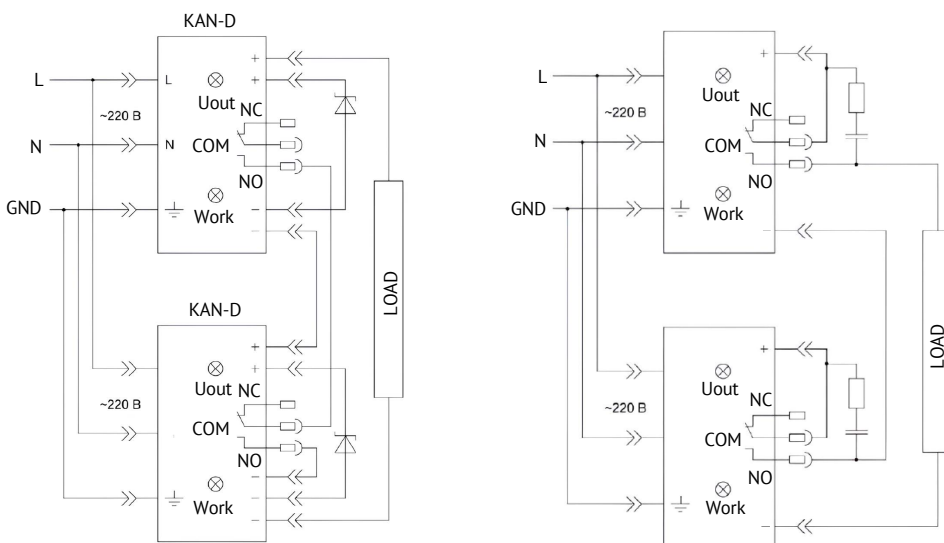
Parallel connection (redundant mode)



Parallel connection (power ramp-up)

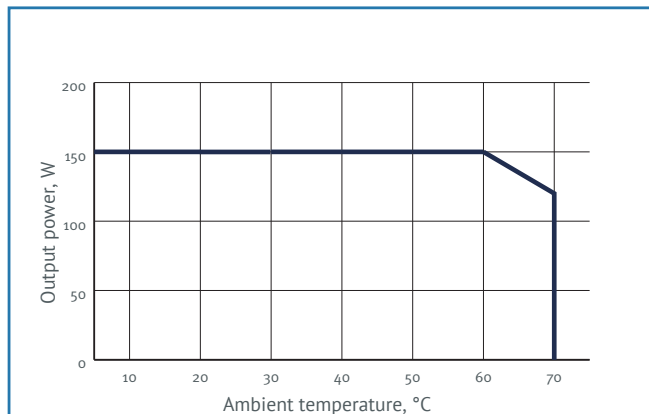


Series connection (no more than 2)

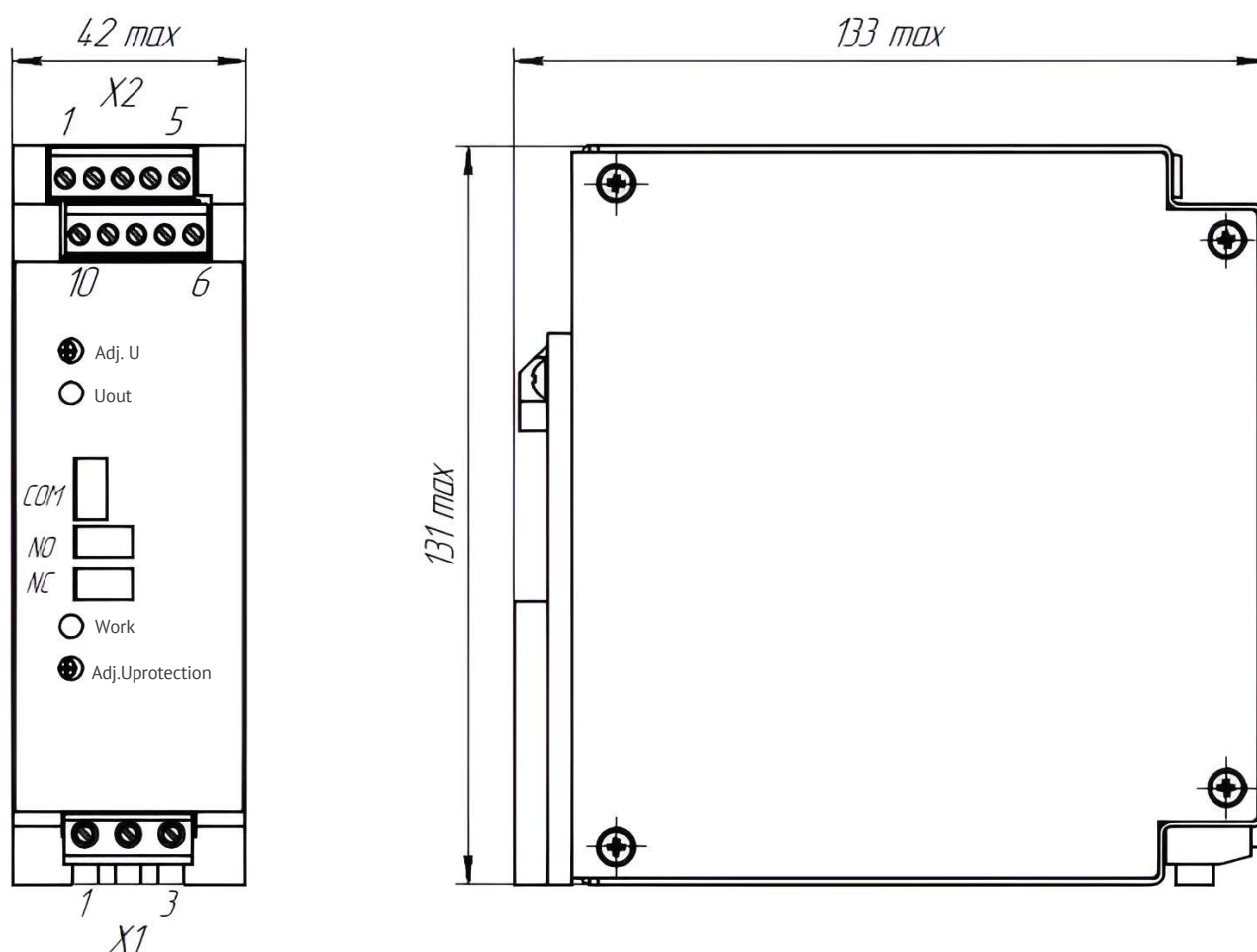


Derating

Temperature dependence



Dimensions drawing



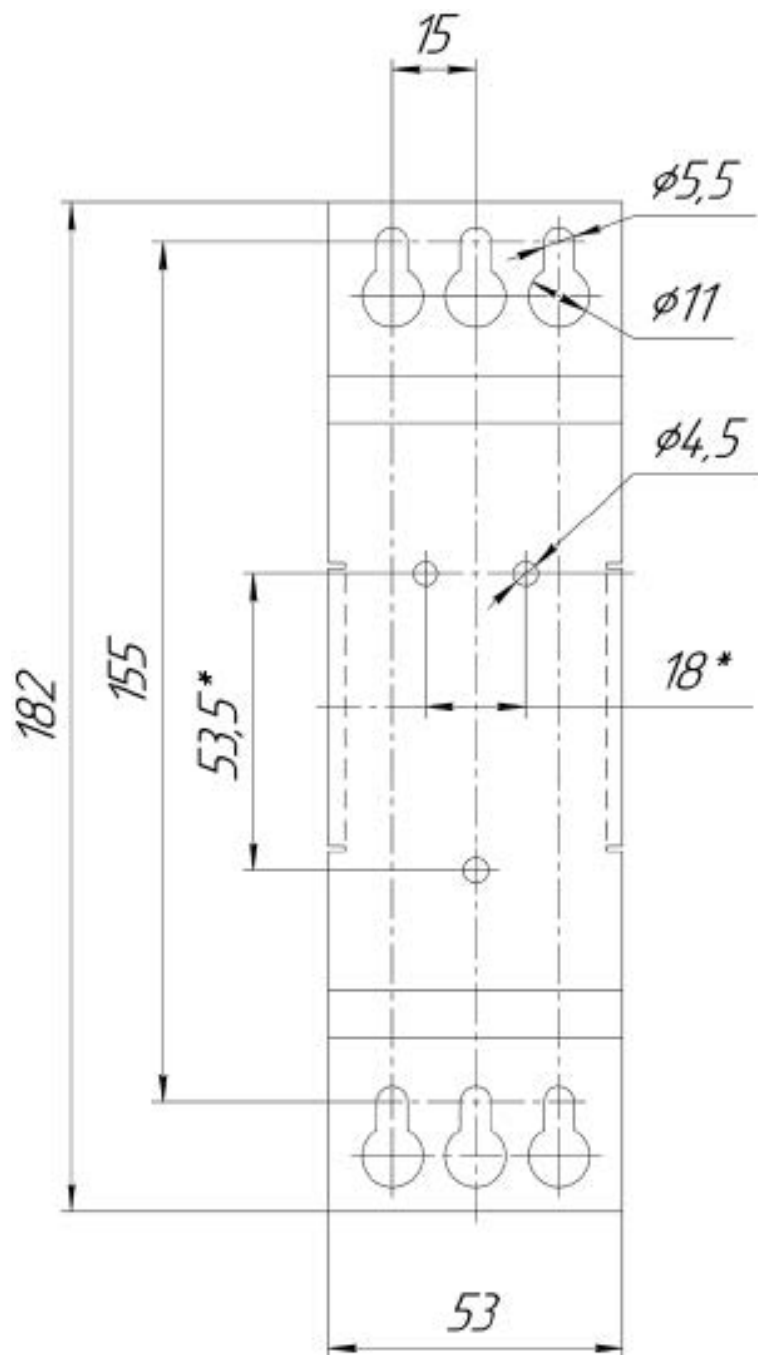
X1.1	X1.2	X1.3
L	N	⊥

X2.1	X2.2	X2.3	X2.4	X2.5
+REMOTE OFF	- REMOTE OFF	-OUT	-OUT	-OUT

X2.10	X2.9	X2.8	X2.7	X2.6
DIAG	Adj.U	+OUT	+OUT	+OUT

Bracket dimensional drawing

Bracket ANZHE.745422.002



This datasheet is valid for the : KAN-D150C12P, KAN-D150C24P, KAN-D150C48P

¹ To be ordered separately