

Technical Data CSE141

Insulation coordination acc. to IEC 664-1

Rated insulation voltage	AC 440 V
Rated impulse withstand voltage/contamination level	4 kV / 3
Voltage test acc. to IEC 255-5	2.5 kV

Supply voltage

Supply voltage U_s	AC 50...60Hz 85...125 V, 100...145 V, 185...275 V
Max. power consumption	ca. 3 VA

Response values

Response value (steplessly adjustable)	0.1-1A, 0.5-5A, 1-10A, *5-50A
Overload capacity	40 A 1s / 12 A DB ¹⁾ , *5-50 A DB ¹⁾ 10 x I_N
Influence of ambient temperature	<0.05% / °C
Load	< 1.5 VA
Switching hysteresis (steplessly adjustable)	2 ... 10 %
Delay on response t (steplessly adjustable)	0.1 ... 10 sek
Recovery time max.	0.2 sek
Delay on release	ca. 70 ms
Repeat accuracy	< ± 1.5 %
Influence of ambient temperature	<0.2 % / °C

Contact circuits

Switching components	2 change-over contacts
Contact class acc. to DIN IEC 255 Teil 0-20	IIB
Rated contact voltage	AC 250 V / DC 300 V
Admissible number of operations	12000 cycles
Limited making capacity	UC 5 A
Limited breaking capacity	
AC 230 V, cos phi = 0.4	AC 2 A
DC 220 V, L/R = 0.04s	DC 0.2 A
Operating principle, adjustable	N/O or N/C operation
Pre-set by factory	N/O operation

Type tests

Test of the Electromagnetic Compatibility (EMC):

Immunity against electromagnetic

Interferences acc. EN 50082-2:

Impulse voltage and electrical disturbance test acc. to IEC 255:

Impulse voltage test acc. IEC 255-5	class III
Electrical disturbance test acc. to IEC 255-4	class III

Emissions acc. to EN 50 081:

Emissions acc. to EN 55 011/CISPR11	class B ¹⁾
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Mechanical tests:

Shock resistance acc. to IEC 68-2-27	15 g / 11 ms
Bumping acc. to IEC 68-2-29	40 g / 6 ms
Vibration strength acc. to IEC 68-2-6	10...150 Hz / 0,15 mm - 2 g

Environmental conditions

Ambient temperature, during operation	-15°C ... +50°C
Storage temperature range	-20°C ... +70°C
Climatic class acc. to IEC 721	3K5, except condensation and formation of ice

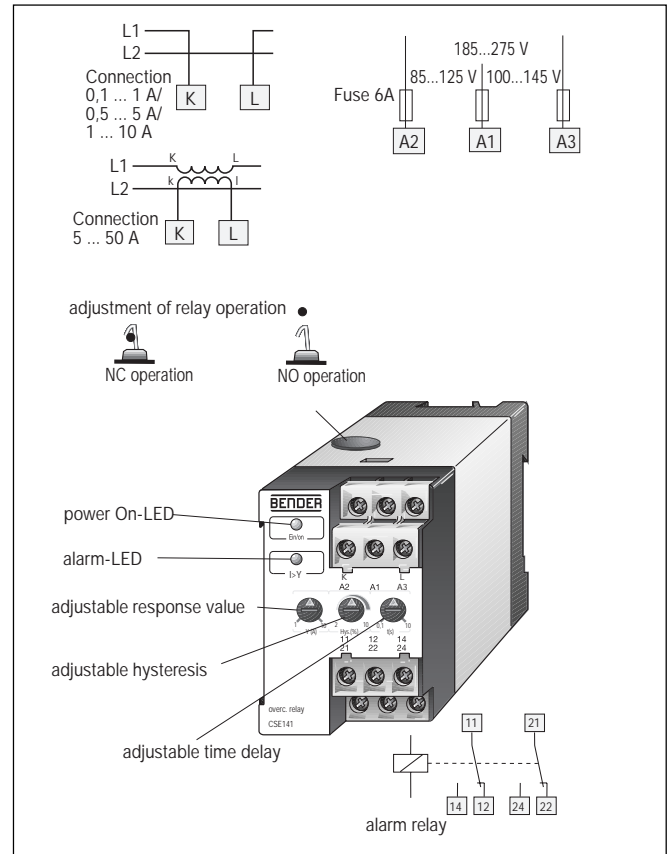
General data

Operation class	continuous operation
Mounting position	any position
Type of connection	terminals with self-lifting clamp-washers
Wire cross section	
single wire	2x (1 ... 1.5 mm ²)
fine braid	2x (0.75 ... 1.5 mm ²)
DIN rail	acc. to DIN EN 50 022 or screw mounting
Protection class acc. to EN 60 529	
Internal components	IP 30
Terminals/with terminal covers	IP 20
Type of casing	X140
Flammability class	UL94V-0
Weight approx.	250 g

¹⁾ DB = continuous operation

²⁾ Class B devices are suitable for household and industrial use.

Wiring Diagrams



Safety instructions

Please check for correct mains voltage !

Electrical equipment shall only be installed by qualified personnel in consideration of the current safety regulations.

For short-circuit protection, the connection to the supply voltage has to be equipped with a protective device according to IEC 364-4-473 (A fuse of 6A is recommended).

Supplementary to this data sheet you will find enclosed "important safety instructions on the proper use of BENDER products."

Ordering details

Type	Response value	Art. No.
CSE141	0,1 ... 1 A	942 615
	0,5 ... 5 A	942 613
	1 ... 10 A	942 611
CSE141	5 ... 50 A	942 191
*ext. current transformer		942 709

Other values on request.

Ordering details for screw mounting

Type	Art. No.
Mounting plate	300 102

Right to modifications reserved