



Q3 ENERGIE

GmbH & Co. KG



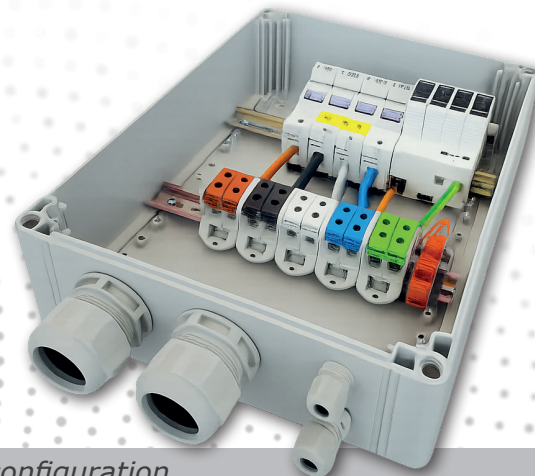
Q3 SurgeBox TN-S Compact

**Ready-to-connect surge protection box
for AC-side building, PV and energy connection.**

AC protection box | Standard configuration | Type 1+2+3 | TN-S | 230/400 V AC

- TN-S / 230–400 V AC
- I_{imp} 12,5 kA per pole
- plug-in protection modules
- remote signalling contact prepared
- Type 1+2+3 combined arrester
- integrated fuse/disconnector unit
- optical status indication
- polycarbonate enclosure with transparent cover

**Suitable for
main supply intake areas,
equipotential bonding /
main earthing bar,
AC-side PV connection,
EV charging points, heat pumps
and distribution boards.**



*Note: The configuration described here is a standard configuration.
Q3 ENERGIE also engineers and manufactures project- and application-specific variants.*

Q3. The Box Makers.

Q3 SurgeBox TN-S Compact

Article number	Q3-Surge-Box-TNS
Configuration	Compact surge protection box for stub-line connection in TN-S networks for building, PV and main supply applications.
Network form	TN-S
Application area	Indoor / protected outdoor area

Mechanical properties			
Enclosure type / material	Ensto Cubo polycarbonate	Enclosure size	300 × 400 × 132 mm
Cover	transparent	Mounting / mounting lugs	wall mounting / external
Cable entries	2 × M40	Additional entry	1 × M20 membrane entry
Connection cable	suitable for NYY-J 5×35	Strain relief	integrated
Mounting type	35 mm DIN rail		

Electrical properties			
Network form	TN-S	Nominal voltage	230/400 V AC
SPD type	Type 1+2+3	Technology	VG-Technology (MOV + gas discharge tube)
Arrester configuration	3 phases + N	Max. continuous operating voltage U _c	275 V AC
Lightning impulse current I _{imp}	12,5 kA / Pol (10/350 µs)	Nominal discharge current I _n	20 kA
Max. discharge current I _{max}	50 kA / pole	Total discharge current	200 kA
Voltage protection level U _p	≤ 1,5 kV	Short-circuit current rating I _{sc cr}	50 kA
Mounting	35 mm DIN rail	Protection modules	plug-in
Status indication	optical	Remote signalling contact	available / optional use
SPD connection cross-section	up to 25 mm² / 35 mm²	Temperature range	-40 °C to +85 °C

Integrated fuse/disconnector unit			
System	CITEL SFD1-13S-31	Fuse type	cylindrical 14×51 mm
Integrated back-up fuse	equivalent to 125 A gL/gG	Breaking capacity	100 kA
Lightning impulse current withstand	12,5 kA (10/350 µs)	Max. discharge current	80 kA
Remote signalling	available	Status indication	optical
Mounting	35 mm DIN rail		

Normative basis			
IEC 61643-11	Surge protective devices	DIN EN 61643-11	Surge protective devices
UL1449 ed.5	SPD approval	EN 60269-1	Low-voltage fuses
EN 60269-2	Fuse systems	VDE-AR-N 4100	Use of Type 1 SPDs in main power supply systems

Q3 *ENERGIE* stands for technology that keeps its promise – engineered, tested and built in Kaufbeuren.

Scope of supply

- Ensto Cubo polycarbonate enclosure 300 × 400 mm
- 1 × M20 membrane entry
- CITEL DAC1-13VGS-40-275 Type 1+2+3 combined arrester
- CITEL SFD1-13S-31 fuse/disconnector unit
- 2 × M40 cable glands
- integrated strain relief
- plug-in protection modules
- internal wiring and terminal technology

Q3 Quality | Series manufacturing with project expertise

Why Q3?

Engineered → Built → Tested → Documented → Traceable

Every SurgeBox is electrically tested and documented.
Series-compatible design with a clear assembly and test logic.
Project-specific variants based on a standardised platform.

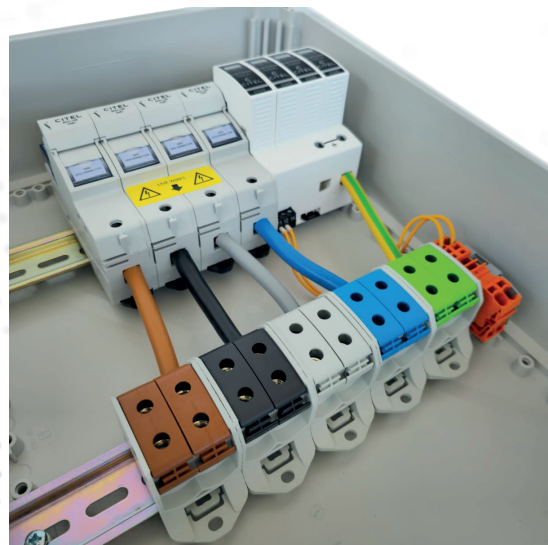


Project-specific versions available.
AC protection technology tailored to project requirements.



Request your AC protection box:
Scan the QR code and send your enquiry.

Note: All information has been checked carefully. Subject to amendments, errors and misprints.
No liability is accepted for damage resulting from incorrect or incomplete information.




MADE IN GERMANY

Q3 *ENERGIE* GmbH & Co. KG • D-87600 Kaufbeuren • www.q3-energie.de • +49 (0)8341 9080 334