SPLIT-CORE CURRENT TRANSDUCER

JS36S-XXX-VH

The Split-core Current Transducer, VH Series, is designed for energy management, with a convenient connection to electronic submeter. It may also be applied for current measurement in a system of distributed power line carriers (PLCs) or remote controls such as SCADA software for automation and supervision. Other applications include security and condition monitoring, load monitoring, in protection systems, and for predictive maintenance of conveyers, pumps or HVAC motors.

APPLICATIONS

- Automation and Supervision
- Safety and Condition Monitoring
- HVAC & Pumps
- Refrigeration
- Small Industrial Motors
- Fans / Lighting

BENEFITS

- High isolation between primary and secondary circuits
- Compact case
- Cost-effective solution
- Easy installation

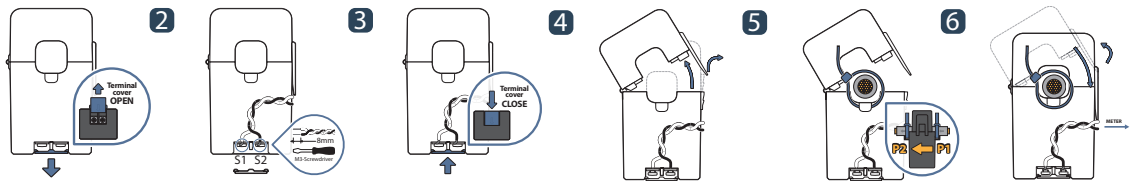
FEATURES

- Self-powered and loop-powered versions
- Operating range: -20°C to +60°C
- Isolation test voltage : 3kV RMS / 50Hz / 1min
- Sensing aperture : 36mm (for non-contact measurement)
- UL94-V0 recognized materials

NOTICE

- Current transformer and RMS circuit in a single case
- Choice of primary current ranges: 400 - 500A RMS
- Choice of standard output types: 0-10V DC
- Accuracy: <2% of nominal primary current
- Bandwidth: 50/60 Hz

HOW TO USE

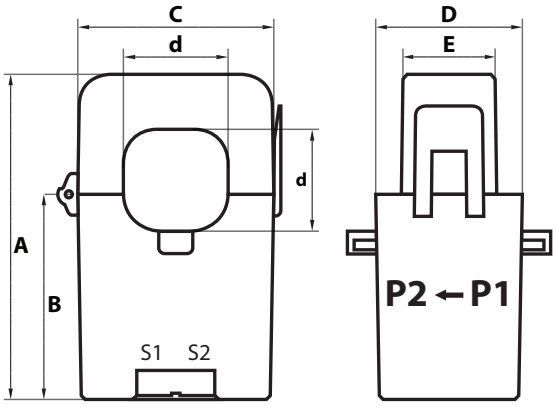


SPECIFICATION

(F=50/60Hz)

Model	JS36S-XXX-VH / ø36
Current Range(Arms)	400 - 500A
Max. Allowable Current	100%(Continuous), 150%(1mim.)
Output	0~10V DC (Average)/0~Rated Current, 15V DC Limiter built-in
Accuracy / Linearity	±2% FS. Dynamic Range 1:100 at 50/60Hz Sinewave
Output Impedance	23 kΩ
Sensor Supply Voltage	Self-Powered
Response Time	300ms
Output Ripple Voltage	Within 5% of Output Voltage
Output Terminals	2 x M3-Screw, with Terminals cover
Insulation Category	CATⅢ
Operating Condition	-20˚C~+50˚C, ≤85%RH, No condensation, In-house & Any direction installable
Storage Condition	-30˚C~+90˚C, ≤85%RH, No condensation

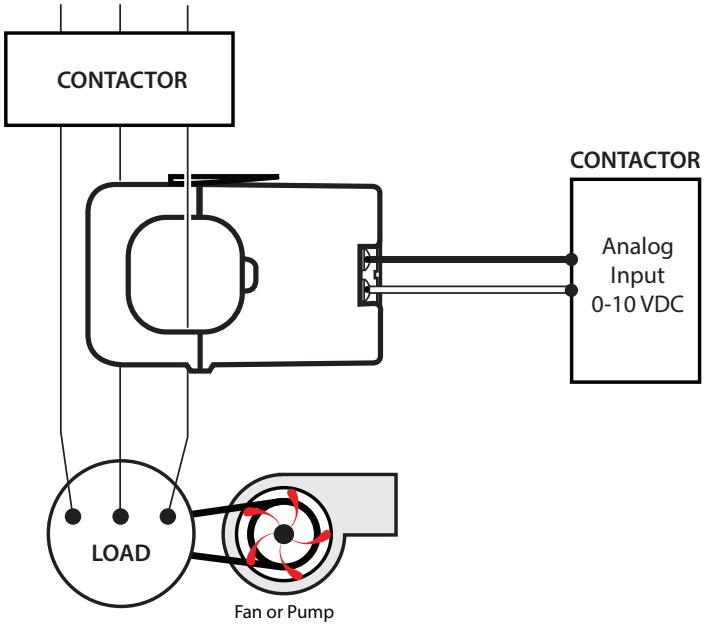
DIMENSIONS



Unit : mm

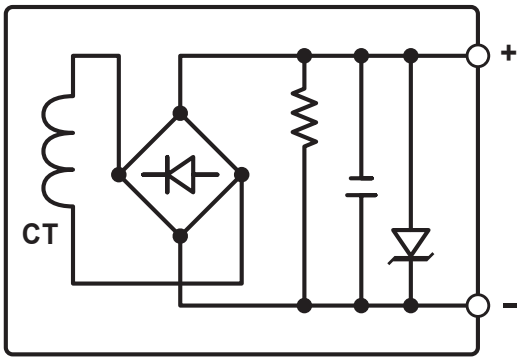
Model	A	B	C	D	E	Ød
JS36S	91.4	57	57.1	40.2	21.1	36

APPLICATIONS



INTERNAL CIRCUIT DRAWING

- **JSXXS-XXX-V/VH**



⚠ CAUTION: DANGER ⚠

HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH

- In order to guarantee safe operation of the transducer, please read and understand the instructions thoroughly. For your reference, see NFPA 70E in the USA, or applicable local codes.
- Certain parts of the module may carry hazardous live voltage when the transformers being operated (e.g. primary conductor, power supply).
- This equipment must only be installed and put into operation by qualified electrical personnel or appropriately trained individual.
- Before servicing the CTs, disconnect all sources of power and use a properly rated voltage sensing device to check if the power is off.
- Make sure to install the transducer only on insulated conductors.
- Do not depend on this product for voltage indication
- Use the product in a Pollution Degree 2. A Pollution Degree 2 environment must control conductive pollution and the possibility of condensation or high humidity. Regard the enclosure, thermal properties of the equipment, the proper use of ventilation and the relationship in surroundings.

NOTICE

- This product is not intentionally made for safety applications.
- The installer is responsible for conformance to all applicable codes.
- Ignoring the warnings could result in serious injury and/or cause damages.
- Do not install and use this transducer in hazardous or classified areas.
- If this product is used in a way not specified by the manufacturer, the protection offered by the product may be impaired. No responsibility is taken by J&D Electronics for any consequences arising by not following this material properly.

J&D SMART SENSING