# LP-2V3 THREE PHASE VAR TRANSDUCER


The LP-2V3 three phase var transducer converts ac current and voltage signals into a load independent bidirectional dc signal proportional to the reactive power flowing in the system. The transducer is designed for 3 phase 3 wire systems with a balanced supply and an unbalanced load.

Note. The pulse output version LP-2V3H is no longer available.

Whilst it is possible to calibrate the output to any reasonable power level, users are recommended to adhere to the standard values. The rated power inputs relate to the actual input to the transducer. Any CT or VT employed will have the effect of multiplying the rated power by the ratio of the transformers used.

**Ordering information:** Voltage inputs, VT ratio ( i.e. 110V, 400V, 11kV/110V )
Current inputs, CT ratio ( i.e. 1A, 5A, 1000/5A )
Output, output scale ( i.e. 4-20mA, 0-10mA equals 0 to 1000var )
Aux. supply ( i.e. 110Vac, 230Vac, 110Vdc )
Options: Frequency ( 60Hz ), Class ( 0.2 )

## Specifications

| Standard Transducer Inputs/Outputs | | |
|---|---|---|
| **Inputs** | **110V** | **400/415V** |
| **1A** | 200 var | 700 var |
| **5A** | 1000 var | 3500 var |

**Input** AC current and voltage, 3 phase 3 wire unbalanced load
Current : 0 -1A or 0 - 5A (others on request)
Current burden : < 0.1VA
Voltage : All ac system voltages to 440V
Voltage burden : 1mA
Frequency : 50Hz, 60Hz

**Outputs** Analogue : Load independent dc current or voltage
: -10 to 0 to +10mA dc <1500 Ohms load
: -20 to 0 to +20mA dc < 750 Ohms load
: 4 to 20mA dc < 750 Ohms load
: -5V to 0 to +5V dc > 2k Ohms load
: -10V to 0 to +10V dc > 2k Ohms load
Response time : <250ms 0 - 90% at full output
: <500ms 0 - 99%
Ripple : <1% pk to pk (of full output span)
Load influence : <0.25% of full span for specific load range

**Accuracy** Class 0.5 to IEC 60688 : ±0.5% of full output span
Accurate range : 0 - 120%
Drift : <±0.5% over the range 0°C to +23°C to +60°C

**Overload** Current inputs : 2 x nominal continuous, 20 x nominal for 3 seconds
Voltage inputs : 1.2 x nominal continuous, 1.5 x nominal for 10 seconds
S/C output : continuous
O/C output : continuous, Vo/c <30V
Maximum output : <2 x nominal output

**Supply** : 24V, 110V, 230-240V, 400-415V ac ±20%, 1.5VA
: 24V dc ±20% or 110V/125V dc (88V-138V) 2W

**Isolation** Galvanic isolation between inputs, output circuits and supply
Test voltage : 4kV rms 50Hz for 1 minute
Impulse : 5kV 1.2/50µsec waveform

**Temperature** Operating : 0°C to +23°C to +60°C
Storage : -25°C to +70°C long term
: -55°C to +85°C short term

**EMC Compliance** : AS/NZS 61000.6.3:2012

**CARREL ELECTRADE LTD**
MANUFACTURERS, IMPORTERS AND DISTRIBUTORS OF ELECTRICAL ENGINEERING PRODUCTS
POSTAL ADDRESS: P O BOX 11078, ELLERSLIE 1542, AUCKLAND NEW ZEALAND
FACTORY AND OFFICE: 661 GREAT SOUTH ROAD, PENROSE 1061
TELEPHONE: +64-9-525 1753 FACSIMILE: +64-9-525 1756
CHRISTCHURCH BRANCH: 73B BRISBANE STREET, SYDENHAM
TELEPHONE: 03-366 1242 FACSIMILE: 03-379 1991
EMAIL: sales@ carrel-electrade.co.nz WEB: www.carrel-electrade.co.nz

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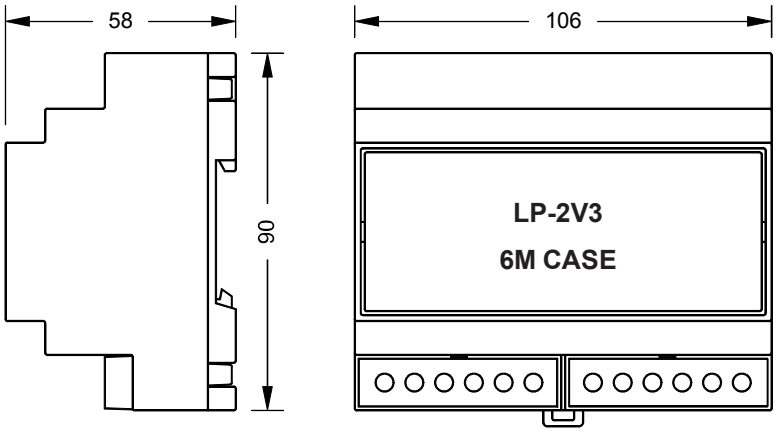
14 June 2023

# LP-2V3 THREE PHASE VAR TRANSDUCER

**Dimensions**




**LP-2V3 Connections** **Note.** Pulse output no longer available