



UCS50




UCS50B

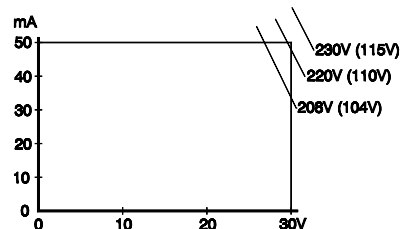
UCS 50 CONSTANT CURRENT SOURCE

CURRENT RANGE 0-50 mA, max 30V

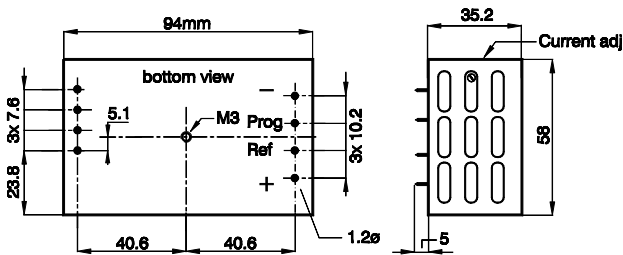


With potted split bobbin transformer, providing very low leakage current and coupling capacitance.

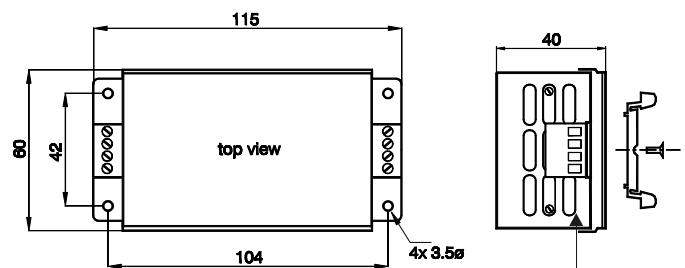
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|---------------------------|---|---|---------------------------|--|
| Input | : 230 / 115 V 48 - 62 Hz Split bobbin, potted, safety transformer according to VDE 0551 EN 60742 |  | Ripple + noise | : 30 μ A p-p, measured across 600 Ω // 0.1 μ F |
| Test voltage | Input / output : 4 kV rms (output / case shorted) Input / case : 4 kV rms (output / case shorted) Output / case : 500 V DC (output shorted) | | Temp. coeff. | : 0.005% per $^{\circ}$ C |
| Input to output | Leakage current : Typical 5 μ A Coupling capacitance: Less than 60 pF Insulation resistance : 1000 MOhms Attenuation input spikes : Better than 100 dB | | Stability | : 0.01% per 8 hrs after 20 min. warm up |
| Safety | : IEC 60950 EN 61010 | | Output impedance | DC : 10 MOhm 1 kHz : 33 kOhm 10 kHz : 3.3 kOhm 100 kHz : 0.33 kOhm |
| EMC | : EN 61204-3 EN 61000-6-3 (EN 55022-B) EN 61000-6-2 | | Recovery time | : 600 - 60 Ohm : 10 μ s |
| Current adjustment | : 0-50 mA a) By 20-turn screwdriver adj. b) By external potmeter 10 k Ω c) By 0-5 V analog programming | | Open voltage limit | : 33 V +/- 5% |
| Programming input | : 0-5 V, full scale error \pm 0.2%, offset error \leq 20 μ A, input impedance 500 kOhm. | | Ambient temp. | : - 20 to +50 $^{\circ}$ C |
| Current regulation | Load 600 - 0 Ohm : 3 μ A Line +/- 10% : 3 μ A | | Dim. and weight | : 35 x 58 x 94 mm (h x w x d) 0.39 kg |
| | | | Accessories | : P500 Eurocard for 2 units. Front panel F10-3 for P500. For more details see also U-series. |



Derating of max. voltage at low line voltage



UCS50 with solder pins for PCB mounting



UCS50B with screw terminals for rail mounting

Clamp for rail mounting