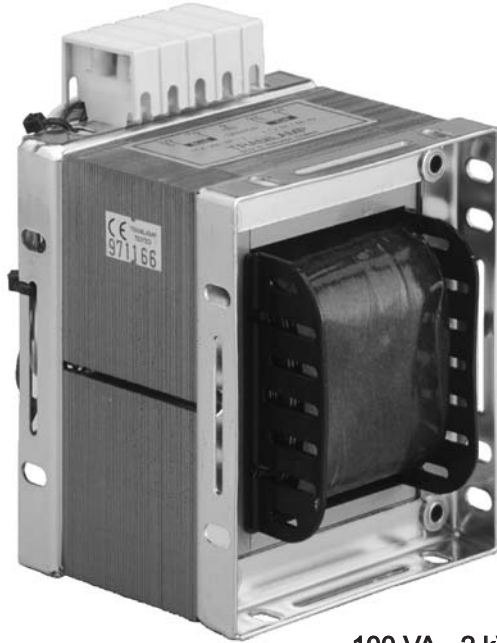


TCX and TC Standard Ranges provide a low cost high quality solution where double wound transformers are required with standard voltage primaries and secondaries. TCX's have one input and one output only; TC's are multi-tapped.

400

TCX Range 25VA - 2kVA 50/60 Hz - Untapped



100 VA - 2 kVA



25 VA & 50 VA

| Product Code | Input V | Output V |
|-----------------------------------------------------|---------|----------|
| TCX/VA Rating/1 | 0-415 | 0-240 |
| TCX/VA Rating/2 | 0-240 | 0-110 |
| TCX/VA Rating/3 | 0-415 | 0-110 |
| TCX/VA Rating/5 | 0-415 | 0-24 |
| TCX/VA Rating/6 | 0-240 | 0-24 |
| For fused primary add "F" after Product Code | | |
| * 24v Output not available (Use STK range) | | |

| Available VA Ratings |
|----------------------|
| 25 |
| 50 |
| 100 |
| 150 |
| 200 |
| 250 |
| 300 |
| 500 |
| 750 |
| 1k |
| 1.5k * |
| 2k * |

Standard Specification

- Shrouded terminal blocks used up to 3kVA
- Design optimises size and efficiency, whilst giving a small footprint
- Earth screen fitted between primary and secondary windings
- Transformers impregnated with a polyester varnish to reduce vibration and noise from the laminations and windings
- Conform to the general requirements of BS171 (IEC76) and BS3535 Class 1 (IEC742 and BSEN 60742)
- Insulation to BS2757 Class E (IEC85)
- Maximum operating ambient temperature of 30 C without derating
- All transformers are CE labelled in

Optional Extras

- Anti-surge fuses can be fitted on the TCX Range (one on 240V primary, two on 415V primary)
- Steel ventilated floor or wall mounting enclosures can be fitted to IP23, IP54 or IP65 protection. See Data Sheet 408
- DIN rail mounting kit available for transformers up to 100VA

TC Range 50 VA - 5 kVA 50/60 Hz - Standard multi-taps



| Product Code | Input V | Output V |
|---------------------------------------------------------|---------------|-------------|
| TC/VA Rating/1 | 0-380-415-440 | 0-220-240 |
| TC/VA Rating/2 | 0-220-240 | 55-0-55 |
| TC/VA Rating/3 | 0-380-415-440 | 55-0-55 |
| TC/VA Rating/5 | 0-380-415-440 | 0-12 + 0-12 |
| TC/VA Rating/6 | 0-220-240 | 0-12 + 0-12 |
| TC/VA Rating/7 | 0-380-415-440 | 0-110 |
| * 24v Output not available (Use STK, TUF or TCF ranges) | | |

| Available VA Ratings |
|----------------------|
| 50 |
| 100 |
| 150 |
| 200 |
| 250 |
| 300 |
| 500 |
| 750 |
| 1k |
| 1.5k * |
| 2k * |
| 3k * |
| 5k * |

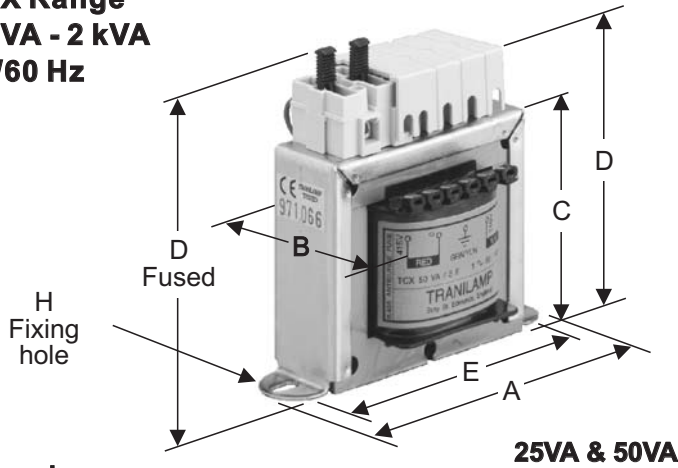
TCX TC

Transformer Ranges (25VA - 5kVA)

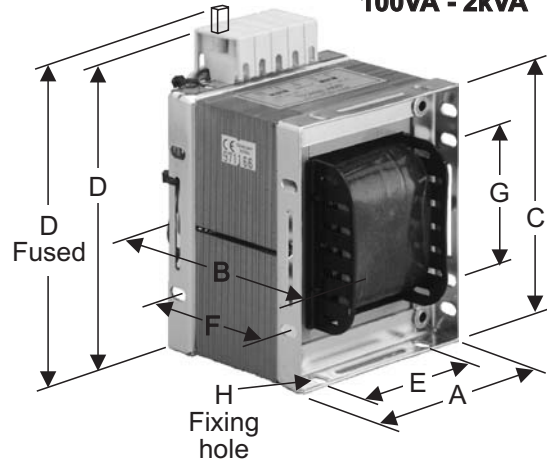


Product Data Sheet 400/2 Issue 1

TCX Range 25 VA - 2 kVA 50/60 Hz



100VA - 2kVA



Optional
Primary Anti-surge
Fuse Ratings

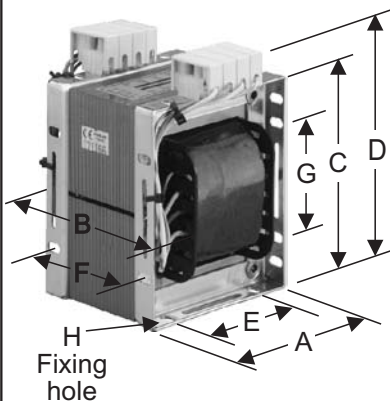
Dimensions

| VA Rating | Amps | |
|-----------|-----------------|------------------|
| | 240 V 1 Fuse | 415 V 2 Fuses |
| 25 | 0.40 | 0.40 |
| 50 | 0.40 | 0.40 |
| 100 | 0.80 | 0.50 |
| 150 | 1.25 | 0.63 |
| 200 | 1.25 | 1.00 |
| 250 | 2.50 | 1.00 |
| 300 | 2.50 | 1.25 |
| 500 | 4.00 | 2.50 |
| 750 | 5.00 | 3.15 |
| 1k | 6.30 | 4.00 |
| 1.5k | 10.0 | 6.30 |
| 2k | 10.0 | 8.00 |

| VA Rating | Maximum Dimensions mm | | | | | Fixing Dimensions mm | | | | Wt. kg | IP23 Enc. Type* | V Reg % | Inrush VA | |
|-----------|-----------------------|-----|-----|-----|---------|----------------------|-----|-----|-------|--------|-----------------|---------|-----------|-------|
| | A | B | C | D | D Fused | E | F | G | H | | | | 95% | 90% |
| 25 | 99 | 50 | 57 | 78 | 87 | 84 | - | - | 5X8 | 0.7 | ENV0 | 12 | 35 | 45 |
| 50 | 107 | 56 | 66 | 86 | 96 | 93 | - | - | 5X8 | 1.0 | ENV0 | 10 | 70 | 90 |
| 100 | 83 | 78 | 100 | 119 | 129 | 63 | 53 | 63 | 4X7 | 2.3 | ENV1 | 8 | 160 | 220 |
| 150 | 83 | 90 | 100 | 119 | 129 | 63 | 66 | 63 | 4X7 | 3.0 | ENV1 | 9 | 250 | 350 |
| 200 | 99 | 92 | 118 | 139 | 149 | 64 | 57 | 63 | 5X9 | 3.5 | ENV1 | 8 | 400 | 600 |
| 250 | 99 | 92 | 118 | 139 | 149 | 63 | 57 | 63 | 5X9 | 3.6 | ENV1 | 8 | 450 | 675 |
| 300 | 99 | 105 | 118 | 139 | 149 | 63 | 66 | 63 | 5X9 | 4.5 | ENV1 | 7 | 500 | 800 |
| 500 | 115 | 128 | 137 | 154 | 164 | 89 | 86 | 89 | 6X11 | 7.3 | ENV3 | 5 | 800 | 1.25k |
| 750 | 115 | 138 | 137 | 164 | 167 | 89 | 95 | 89 | 6X11 | 9.0 | ENV3 | 5 | 1.5k | 2k |
| 1k | 140 | 135 | 167 | 194 | 197 | 89 | 88 | 89 | 7X13 | 11.3 | ENV3 | 4 | 2k | 3.5k |
| 1.5k | 140 | 160 | 167 | 187 | 197 | 89 | 119 | 89 | 7X13 | 16.1 | ENV4 | 3 | 3k | 5k |
| 2k | 180 | 160 | 215 | 242 | 252 | 114 | 110 | 114 | 10X18 | 21.0 | ENV5 | 3 | 3.5k | 6k |

*IP54 or IP65 enclosure sizes given on application

TC Range 50 VA - 5 kVA 50/60 Hz



Dimensions

| VA Rating | Max. Dimensions mm | | | | Fixing Dimensions mm | | | | Wt. kg | IP23 Enc. Type* | V Reg % | Inrush VA | |
|-----------|--------------------|-----|-----|-----|----------------------|-----|------|-------|--------|-----------------|---------|-----------|-------|
| | A | B | C | D | E | F | G | H | | | | 95% | 90% |
| 50 | 67 | 65 | 80 | 100 | 54 | 40 | 54 | 4X8 | 1.1 | ENV0 | 10 | 70 | 90 |
| 100 | 83 | 76 | 100 | 120 | 63 | 53 | 62.5 | 5X8 | 2.3 | ENV1 | 8 | 160 | 220 |
| 150 | 83 | 88 | 100 | 120 | 63 | 65 | 63 | 5X8 | 3.0 | ENV1 | 9 | 250 | 350 |
| 200 | 99 | 92 | 118 | 139 | 63 | 56 | 63 | 5X9 | 3.5 | ENV1 | 8 | 400 | 600 |
| 250 | 99 | 92 | 118 | 139 | 63 | 56 | 63 | 5X9 | 3.6 | ENV1 | 8 | 450 | 675 |
| 300 | 99 | 105 | 118 | 139 | 63 | 69 | 63 | 5X9 | 4.5 | ENV1 | 7 | 500 | 800 |
| 500 | 115 | 128 | 137 | 162 | 89 | 83 | 89 | 6X11 | 7.3 | ENV3 | 5 | 800 | 1.25k |
| 750 | 115 | 140 | 137 | 162 | 89 | 98 | 89 | 6X11 | 9.0 | ENV3 | 5 | 1.5k | 2k |
| 1k | 140 | 135 | 167 | 195 | 89 | 94 | 89 | 7X13 | 11.3 | ENV3 | 4 | 2k | 3.5k |
| 1.5k | 140 | 160 | 167 | 189 | 89 | 119 | 89 | 7X13 | 16.1 | ENV4 | 3 | 3k | 5k |
| 2k | 180 | 160 | 215 | 242 | 115 | 110 | 115 | 10X18 | 21.0 | ENV5 | 3 | 3.5k | 6k |
| 3k | 214 | 198 | 179 | 208 | 115 | 147 | 115 | 10X18 | 29.9 | ENV5 | 3 | 5.5k | 9k |
| 5k | 240 | 170 | 248 | 298 | 160 | 112 | N/A | 11 | 32 | ENV6 | 3 | - | - |

*IP54 or IP65 enclosure sizes given on application

Shrouded Terminal Blocks fitted as standard up to 3 kVA