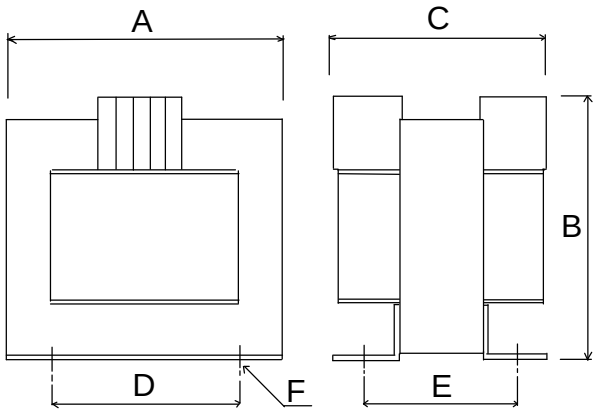
# RS RANGE OF SAFETY/ISOLATING TRANSFORMERS




| Dimensions (mm) | | | | Fixings (mm) | | | |
|---|---|---|---|---|---|---|---|
| VA | A | B | C | D | E | F | Weight (Kg) |
| 50 | 84 | 91 | 84 | 64 | 64 | 4.5 | 1.9 |
| 100 | 84 | 91 | 97 | 64 | 72 | 4.5 | 2.5 |
| 150 | 108 | 110 | 90 | 84 | 72 | 6.5 | 3.5 |
| 200 | 108 | 110 | 114 | 84 | 92 | 6.5 | 5 |
| 300 | 120 | 130 | 143 | 90 | 106 | 6.5 | 6.9 |
| 500 | 120 | 130 | 143 | 90 | 106 | 6.5 | 7.5 |
| 1000 | 150 | 155 | 175 | 122 | 132 | 7 | 14.6 |

**Information:**

- High quality safety and isolating transformers designed for use in control circuits and general applications.
- Low loss/noise laminations.
- Dual standard primary winding 230/400V ac with +15V tap for input flexibility.
- Dual secondaries centre tapped. Earth terminal provided.
- Varnish impregnated for overall protection against humidity and rusting.
- Fully shrouded clamp type terminals with voltage markings
- Detailed product specification on permanent label.
- High efficiency, low regulation design.
- Designed and manufactured to conform to BS EN 61558.
- 100% electrical and flash tested.

**Technical Information:**

| | | | |
|---|---|---|---|
| Input: | +15-0-230-400V Single phase 50/60Hz | | |
| Construction: | Class 1 | | |
| Insulation: | Class 130.C | | |
| Isolation: | 4KV flash test primary/secondary | | |
| Temperature: | 35.C ambient, | 85.C full load rise | |
| Testing: | Flash Test | Primary/Secondary: | 4KV for 6 seconds 100% test |
| | | Primary/Core: | 4KV for 6 seconds 100% test |
| | | Secondary/Core: | 2KV for 6 seconds 100% test |
| Overpotential Test | | 460V @ 500 Hz applied to 230V primary | |
| Winding Resistance | | Batch test | |
| Magnetising Current | | 100% test | |
| Earth Continuity | | 100% test | |
| Open Circuit Sec. Volts | | +/-5% tolerance, 100% test | |

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| VA | Sec. Volts at full load | Sec.Resist Ohms @ 20.C | Pri.Resist(230V) Ohms @ 20.C | Pri.Resist(400V) Ohms @ 20.C | Iron Loss (W) @ no load | Total Loss (W) @ full load | Regulation % Typ. @ full load |
|---|---|---|---|---|---|---|---|
| 50 | 12-0-12 | 0.61 | 27 | 48 | 4.7 | 9.5 | 9 |
| 50 | 24-0-24 | 2.2 | 27 | 48 | 4.7 | 9.5 | 9 |
| 50 | 55-0-55 | 9.8 | 27 | 48 | 4.7 | 9.5 | 9 |
| 50 | 230 | 33 | 27 | 48 | 4.7 | 9.5 | 9 |
| 100 | 12-0-12 | 0.23 | 14 | 25 | 6 | 15.5 | 7.5 |
| 100 | 24-0-24 | 1.1 | 14 | 25 | 6 | 15.5 | 7.5 |
| 100 | 55-0-55 | 5.3 | 14 | 25 | 6 | 15.5 | 7.5 |
| 100 | 230 | 17.5 | 14 | 25 | 6 | 15.5 | 7.5 |
| 150 | 12-0-12 | 0.13 | 7 | 17.8 | 10 | 17.5 | 6 |
| 150 | 55-0-55 | 2.6 | 7 | 17.8 | 10 | 17.5 | 6 |
| 200 | 12-0-12 | 0.09 | 4.6 | 11.2 | 13 | 23 | 4 |
| 200 | 24-0-24 | 0.32 | 4.6 | 11.2 | 13 | 23 | 4 |
| 200 | 55-0-55 | 1 | 4.6 | 11.2 | 13 | 23 | 4 |
| 200 | 230 | 5.3 | 4.6 | 11.2 | 13 | 23 | 4 |
| 300 | 12-0-12 | 0.051 | 3.2 | 6.8 | 17 | 34 | 5 |
| 300 | 24-0-24 | 0.2 | 3.2 | 6.8 | 17 | 34 | 5 |
| 300 | 55-0-55 | 0.93 | 3.2 | 6.8 | 17 | 34 | 5 |
| 500 | 55-0-55 | 0.38 | 1.9 | 4.2 | 18 | 38 | 2.5 |
| 500 | 230 | 2 | 1.9 | 4.2 | 18 | 38 | 2.5 |
| 1000 | 55-0-55 | 0.14 | 0.54 | 1.4 | 35 | 61 | 2 |
| 1000 | 230 | 0.62 | 0.54 | 1.4 | 35 | 61 | 2 |

| R.S Stock No. | Manufacturer Part No. | Specification | BS EN Standard |
|---|---|---|---|
| 504-290 | 10-5966 | +15-0-230-400V/12-0-12V @ 50VA | 61558-2-6 |
| 504-313 | 10-5967 | +15-0-230-400V/24-0-24V @ 50VA | 61558-2-6 |
| 504-296 | 10-5968 | +15-0-230-400V/55-0-55V @ 50VA | 61558-2-4 |
| 504-307 | 10-5969 | +15-0-230-400V/230V @ 50VA | 61558-2-4 |
| 504-303 | 10-5970 | +15-0-230-400V/12-0-12V @ 100VA | 61558-2-6 |
| 504-151 | 10-5971 | +15-0-230-400V/24-0-24V @ 100VA | 61558-2-6 |
| 504-161 | 10-5972 | +15-0-230-400V/55-0-55V @ 100VA | 61558-2-4 |
| 504-167 | 10-5973 | +15-0-230-400V/230V @ 100VA | 61558-2-4 |
| 504-177 | 10-5974 | +15-0-230-400V/12-0-12V @ 150VA | 61558-2-6 |
| 504-155 | 10-5975 | +15-0-230-400V/55-0-55V @ 150VA | 61558-2-4 |
| 504-173 | 10-5976 | +15-0-230-400V/12-0-12V @ 200VA | 61558-2-6 |
| 504-123 | 10-5977 | +15-0-230-400V/24-0-24V @ 200VA | 61558-2-6 |
| 504-133 | 10-5978 | +15-0-230-400V/55-0-55V @ 200VA | 61558-2-4 |
| 504-139 | 10-5979 | +15-0-230-400V/230V @ 200VA | 61558-2-4 |
| 504-149 | 10-5980 | +15-0-230-400V/12-0-12V @ 300VA | 61558-2-6 |
| 504-145 | 10-5981 | +15-0-230-400V/24-0-24V @ 300VA | 61558-2-6 |
| 504-212 | 10-5982 | +15-0-230-400V/55-0-55V @ 300VA | 61558-2-4 |
| 504-218 | 10-5983 | +15-0-230-400V/55-0-55V @ 500VA | 61558-2-4 |
| 504-228 | 10-5984 | +15-0-230-400V/230V @ 500VA | 61558-2-4 |
| 504-224 | 10-5985 | +15-0-230-400V/55-0-55V @ 1000VA | 61558-2-4 |
| 504-234 | 10-5986 | +15-0-230-400V/230V @ 1000VA | 61558-2-4 |