





RUFC (HPR) BRAKING RESISTOR

Space saving high power resistors, studied for all those cases in which a high dissipation power is required, but space problems do not allow the employment of a classic IP22 metallic box resistor bank.



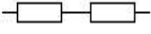
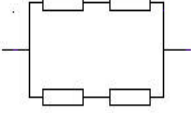
HPR resistors consist of RFH resistive body inside an aluminium case, provided with an efficient heat sink and shaped for an easy mounting. These characteristics guarantee the same performances of a traditional resistor bank in a volume up to 5 times smaller, with a high protection degree (standard IP 40, IP 55 upon request) and a perfect inalterability of surfaces and connections, even in the extreme conditions of a “yard” employment




Main Characteristics

- excellent performance/dimension ratio
- low thermal resistance (from 0.6 °C/W to 0.24 °C/W)
- easy mounting
- no smoke or fumes (cables up to 350 ° C)

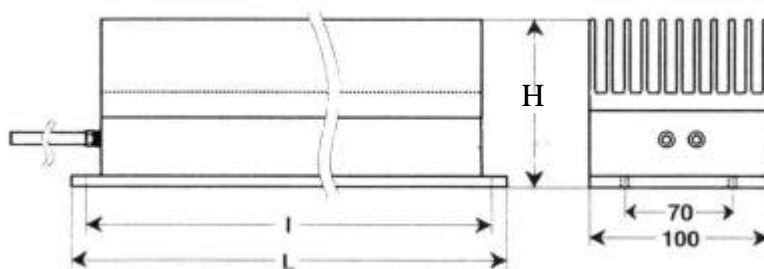
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|-----------------------|---------|---|---|
| Mod. S04P01M05 Rev 00 | | Date.: 20.07.01 | Page 1 of 3 |
| File:NT394E01.doc | Rev. 00 | Prepared by: P.SALA | Verified by A. RIBONI |
| | Sign. |  |  |

- **SCS kits**

| SCS kit | | Connection | Overall Resistance | Overall power continuous duty S1 | Overall power intermittent duty S3 %ED 5% (Max 2" cont.) |
|----------------|-----------------------------|---|--------------------|----------------------------------|--|
| RUFC15 | 1 x 40Ω HPR 1200 |  | 40Ω -0%+10% | 1,2 kW | 14kW |
| RUFC22 | 1 x 24Ω HPR 2000 |  | 24Ω -0%+10% | 2 kW | 25kW |
| RUFC40 | 2 x 6,8Ω HPR 2000 |  | 13,6Ω -0%+10% | 4 kW | 41kW |
| RUFC110 | 4 x 6,8Ω HPR 2000 |  | 6,8Ω -0%+10% | 8 kW | 82kW |

| | | | | | |
|----------------|-----------------------------|---|--------------|--------|------|
| RUFC15J | 1 x 24Ω HPR 760 |  | 24Ω -0%+10% | 0.8kW | 6kW |
| RUFC22J | 1 x 12Ω HPR 1200 |  | 12Ω -0%+10% | 1.2 kW | 12kW |
| RUFC40J | 1 x 7.5Ω HPR 2000 |  | 7.5Ω -0%+10% | 2kW | 19kW |

- **Physical Characteristics**



| DIMENSIONS | | HPR750 | HPR 1200 | HPR2000 |
|-------------------|----|---|----------|---------|
| L +0 -2 | mm | 245 | 310 | 365 |
| I ±1 | mm | 230 | 195 | 350 |
| H ±1 | mm | 170 | 170 | 175 |
| ∅ ±0.1 | mm | 5.5 | 5.5 | 5.5 |
| Weight ± 5% | g | 3400 | 4000 | 4700 |
| Cables | mm | 300 x 2.5(VTC, PTFE tape + glass fibre) | | |
| Protection degree | | IP40 (IP 55 upon request) | | |
| Options | | Thermostat 70-180 °C | | |

Electrical characteristics

| CHARACTERISTICS | | HPR750 | HPR 1200 | HPR2000 |
|---|--------|--------|----------|---------|
| Max. Temperature rise | °C | | 400 | |
| Max Continuous Power | W | 800 | 1200 | 2000 |
| Peak Power 5" overload (once) | KW | 2.5 | 12 | 19 |
| Cyclic overload 2" duty 10% | KW | 10 | 16 | 25 |
| Cyclic overload 30" duty 25% | KW | 2 | 3 | 5 |
| Thermal resistance | °C/W | 0.5 | 0.36 | 0.22 |
| Max working voltage | V | 1500 | 2000 | 2500 |
| Temperature Coefficient | ppm/°C | | <100 | |
| Dielectric Strength at 50HZ for 60" (EN 50981-1/CEI 110-7) | Vrms | | 3500 | |

