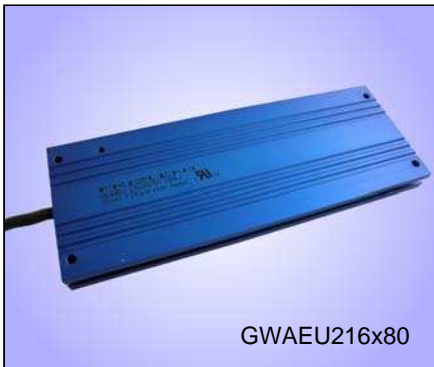


Type series GWAE..

100 – 500 W, IP 54, profile x80,  
connection by screened cable



GWAEU216x80



Short-circuit proof wirewound flat resistor with degree of protection IP 54 in blue anodized aluminium enclosure. Design with screened cable PT 3x1,3 mm<sup>2</sup> (AWG 16/19), 200°C, 0,75 m long.

© optionally, type designation would be GWAEU ...,

**Technologies**

- very flat, compact construction form
- short-circuit proof
- self-extinguishing
- degree of protection IP 54
- incl. screened cable
- higher continuous dissipation by mounting directly onto heat sink or cooling surface
- easy mounting by T-slot

By mounting directly onto an appropriate cooling surface or onto a heat sink the continuous dissipation can be increased resp. the surface temperature can be lowered. Typical factors for an increase are 1,5 up to 5, depending on type, ventilation and size of the cooling surface or heat sink.

We provide various mounting brackets as accessories for different mounting types; see page T350E for further information.

**Application**

E.g. as braking resistors for servo- or frequency converters. Due to a screened cable and to the high degree of protection the resistors can also be mounted outside the switch cabinets.

**Special design**

- longer cable

**Electrical and mechanical data**

| Type series    | continuous dissipation in W at 40°C, 100% DCF and surface excess temperature of 200 K | production range Ω-value |       | dimensions in mm |       | weight in g |
|----------------|---|--------------------------|-------|------------------|-------|-------------|
|                |   | from                     | up to | A                | B     |             |
| GWAE. 110 x 80 | 100   | 2,7                      | 3,3k  | 110              | 98    | 380         |
| GWAE. 160 x 80 | 150   | 4,7                      | 5,6k  | 160              | 148   | 500         |
| GWAE. 216 x 80 | 200   | 6,8                      | 8,2k  | 216              | 204   | 630         |
| GWAE. 320 x 80 | 300   | 10,0                     | 12 k  | 320              | 2x154 | 930         |
| GWAE. 420 x 80 | 400   | 12,0                     | 18 k  | 420              | 2x204 | 1180        |
| GWAE. 520 x 80 | 500   | 18,0                     | 22 k  | 520              | 4x127 | 1430        |

The given power rating values are valid for 100%CD (continuous dissipation). For short time operation you will find the values in the following table as a function of the duty cycle factor (DCF). Just multiply by the corresponding overload factor (OLF). (Also see pages T306E and T307E).

| ED | 60% | 40% | 25% | 15% | 6%  | 3% | 1% |
|----|-----|-----|-----|-----|-----|----|----|
| ÜF | 1,5 | 2,2 | 3,0 | 4,2 | 8,2 | 13 | 22 |

These overload factors are valid for a total cycle time of maximum 120 s.

