



Type series GXAD / GXMD

100 – 1125 W, IP 40, profile x80 and x120



GXAD 216 x 80



1100V
DC

848V
DC

IP
40



Short-circuit proof wirewound flat resistor, in blank aluminium enclosure. With different sizes and for different voltages. PT Design with 2 PTFE-wires, AWG 14/19 (mind. 1,9 mm²), 0,5 m long.

Type series: GXAD.. rated voltage max. 848 VDC

Type series: GXMD.. rated voltage max. 1100 VDC

③ optionally with different UL - certification, on page T305E, type designation would be GX.DU.. or GX.DQU.., e.g. GXADQU 160x80 - 100

Technologies

- rated voltage max.1100 VDC
- very flat, compact construction form
- short-circuit proof
- self-extinguishing
- degree of protection IP 40
- higher continuous dissipation by mounting directly onto heat sink or cooling surface
- compact construction form

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

Option: temperature switch (..Q)

This type can be fitted with a 180° C temperature switch for monitoring, which has 2 connection wires.

Type designation would be: GX.DQ ...

Application

E.g. as brake-resistor for frequency converters (fc). Based on the small sizes these resistors can be mounted directly to the housing of a fc.

Special design

- E.g. with higher protection degree IP54/67

You will find further examples on page T317E.

Electrical and mechanical data

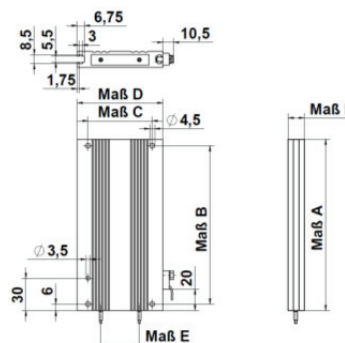
| Type series | continuous dissipation in W at 40°C, 100%DCF and surface excess temperature of | | production range Ω-value | | dimensions in mm | | | | | | weight in g |
|-----------------------------|--|-------|--------------------------|------|------------------|-------|-----|-----|------|----|-------------|
| | 200 K typical power | 250 K | from | upto | A | B | C | D | E | F | |
| GXAD – 848V GXMD – 1100V | 100 | 150 | 2,7 | 3,3k | 110 | 98 | 60 | 80 | 26,2 | 15 | 300 |
| | 150 | 225 | 4,7 | 5,6k | 160 | 148 | 60 | 80 | 26,2 | 15 | 420 |
| | 200 | 300 | 6,8 | 8,2k | 216 | 204 | 60 | 80 | 26,2 | 15 | 550 |
| | 300 | 450 | 10,0 | 12k | 320 | 2x154 | 60 | 80 | 26,2 | 15 | 850 |
| | 400 | 600 | 12,0 | 18k | 420 | 2x204 | 60 | 80 | 26,2 | 15 | 1100 |
| | 500 | 750 | 18,0 | 22k | 520 | 4x127 | 60 | 80 | 26,2 | 15 | 1350 |
| | 220 | 330 | 3,3 | 10k | 160 | 148 | 100 | 120 | 35,8 | 20 | 820 |
| | 300 | 450 | 4,7 | 12k | 216 | 204 | 100 | 120 | 35,8 | 20 | 1100 |
| | 450 | 675 | 6,8 | 22k | 320 | 2x154 | 100 | 120 | 35,8 | 20 | 1630 |
| | 600 | 900 | 10,0 | 27k | 420 | 2x204 | 100 | 120 | 35,8 | 20 | 2140 |
| | 750 | 1125 | 12,0 | 39k | 520 | 4x127 | 100 | 120 | 35,8 | 20 | 2650 |

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.

GX.D..x80... (the figure shows the version with temperature switch (Q))



13 M-600-01-000/13 M-0688-02-000