

Type series GWMD / GYMD

100 – 750 W, IP 54 or IP 67, profile x80 and x120



GWMD 110 x 80



Short-circuit proof wirewound flat resistor, design with 2 FEP-wires, AWG 14/19 (2,1 mm²), 1000 V, 0,5 m long.

Version with degree of protection IP 54 – type GWMD... (standard version)
Version with degree of protection IP 67 – type GYMD...

③ optionally, type designation would be G.MDU or GWMDQU...
e.g. GWMDQU 420x80 - 33

Technologies

- rated voltage max. 1100 VDC
- very flat, compact construction form
- short-circuit proof
- self-extinguishing
- degree of protection IP 54
- usable in harsh environment
- 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.

**Option: Temperature switch (..Q)
(only for type GWMDQ.. – not for GYMD)**

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

Application

E.g. as brake resistor for frequency converters (fc). They are perfectly suited for rough environments because of their high degree of protection. With adequate mechanical protection of the wires the resistors can be mounted outside the switch cabinets directly at the fc or motor.

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	up to	A	B	C	D	E	F	
GWMD – IP54 GYMD – IP67											
G.MD. 110x80	100	150	2,7	3,3k	110	98	60	80	26,2	15	300
G.MD. 160x80	150	225	4,7	5,6k	160	148	60	80	26,2	15	420
G.MD. 216x80	200	300	6,8	8,2k	216	204	60	80	26,2	15	550
G.MD. 320x80	300	450	10,0	12k	320	2x154	60	80	26,2	15	850
G.MD. 420x80	400	600	12,0	18k	420	2x204	60	80	26,2	15	1100
G.MD. 520x80	500	750	18,0	22k	520	4x127	60	80	26,2	15	1350
G.MD. 216x120	300	450	10,0	12k	216	204	100	120	35,8	20	1100

Note: Excess temperature values of 200 K should not be exceeded in order not to risk the degree of protection!

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.

