

Type series GXHM../GXUM..

100 – 750 W, up to IP 40 in aluminium enclosure, connection at terminals



Short-circuit proof wirewound flat resistor in blue anodized aluminium enclosure. Prepared to connect screened cable on porcelain terminal. Design with strain relief and ground connection.

GXHM.. for integration into switch cabinet

Resistor with degree of protection IP 40, terminals protected against access according to BGV A2

GXUM.. for mounting outside the switch cabinet

Design as GXHM but terminals in terminal box, degree of protection IP 20

③ optionally, type designation would be GXHM(Q)U.., e.g. GXHMQU 420x80-33 (version with terminals G10/G5)

Technologies

- very flat, compact construction form
- short-circuit proof
- self-extinguishing
- connection option for screened wiring
- GXUM.. with covered terminal box
- higher continuous dissipation by mounting direct up 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)

Both type series can be fitted with a 180°C temperature switch for monitoring which is connected to 2 terminals.

Type designation would be: GXHMQ ... or GXUMQ..

Application

e.g. as braking resistors for servo- or frequency converters. Due to optional screened wiring and to space saving construction form protection against access to hazardous parts is ensured also at limited mounting spaces.

Special design

- Resistor with degree of protection IP 54 (GW...)

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 _{max}	
GX. M. 110 x 80	100	150	2,7	3,3k	110	98	185	300
GX. M. 160 x 80	150	225	4,7	5,6k	160	148	255	420
GX. M. 216 x 80	200	300	6,8	8,2k	216	204	291	550
GX. M. 320 x 80	300	450	10,0	12 k	320	2x154	395	850
GX. M. 420 x 80	400	600	12,0	18 k	420	2x204	495	1100
GX. M. 520 x 80	500	750	18,0	22 k	520	4x127	595	1350

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).

DCF	60%	40%	25%	15%	6%	3%	1%
OLF	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

