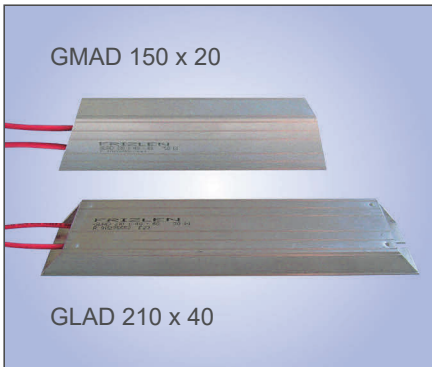


Type series GLAD, GMAD, GNAD, GPAD

50 – 500 W, IP 40, profile x40, x20, x60 and x30



Short-circuit proof wirewound flat resistor, degree of protection IP 40 in blank aluminium enclosure. Design with 2 wires 0,5 m long.

Type series: GLAD, GMAD with 2 Radox-wires, AWG 18/19 (0,82 mm<sup>2</sup>)

Type series: GNAD, GPAD with 2 FEP-wires, AWG 14/19 (1,9 mm<sup>2</sup>)

There are 2 versions available: horizontal – type series GLAD, GNAD  
vertical – type series GMAD, GPAD

③ optionally, type designation would be G.ADU..., e.g. GLADU 210x40 - 100

### Technologies

- compact construction form in a rectangular profile
- short-circuit proof
- self-extinguishing
- degree of protection IP 40
- higher continuous dissipation by mounting directly onto heat sink or cooling surface

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.

### 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: G.ADQ ...

### Application

Different applications derive from the various dimensions in width, height and length. We provide e.g. 4 different constructions forms for 155 W.

An important application is the use as braking resistor for motor/generator drive of motors with frequency converters. Because of their degree of protection the resistors can perfectly be integrated into frequency converters or switch cabinets.

### 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
	200 K typical power	250 K	from	up to	A	B	C	D	G	H	J	
GLAD 100x40	50	75	1,0	3,3k	100	45	40	20	2	82	4,3	145
GLAD 150x40	65	100	1,5	4,7k	150	45	40	20	2	132	4,3	215
GLAD 210x40	100	150	2,2	6,8k	210	45	40	20	2	192	4,3	300
GLAD 240x40	120	180	3,3	10k	240	45	40	20	2	222	4,3	340
GLAD 300x40	155	235	4,7	15k	300	45	40	20	2	282	4,3	430
GLAD 360x40	190	285	5,6	18k	360	45	40	20	2	342	4,3	515
GMAD 100x20	50	75	1,0	3,3k	100	65	20	40	2	82	4,3	145
GMAD 150x20	65	100	1,5	4,7k	150	65	20	40	2	132	4,3	215
GMAD 210x20	100	150	2,2	6,8k	210	65	20	40	2	192	4,3	300
GMAD 240x20	120	180	3,3	10k	240	65	20	40	2	222	4,3	340
GMAD 300x20	155	235	4,7	15k	300	65	20	40	2	282	4,3	430
GMAD 360x20	190	285	5,6	18k	360	65	20	40	2	342	4,3	515
GNAD 165x60	110	165	2,2	6,8k	165	60	60	30	3	146	5,3	590
GNAD 215x60	155	235	3,3	10k	215	60	60	30	3	196	5,3	770
GNAD 265x60	200	300	4,7	15k	265	60	60	30	3	246	5,3	950
GNAD 335x60	270	400	6,8	22k	335	60	60	30	3	316	5,3	1200
GNAD 405x60	330	500	8,2	27k	405	60	60	30	3	386	5,3	1450
GPAD 165x30	110	165	2,2	6,8k	165	73	30	60	3	146	5,3	590
GPAD 215x30	155	235	3,3	10k	215	73	30	60	3	196	5,3	770
GPAD 265x30	200	300	4,7	15k	265	73	30	60	3	246	5,3	950
GPAD 335x30	270	400	6,8	22k	335	73	30	60	3	316	5,3	1200
GPAD 405x30	330	500	8,2	27k	405	73	30	60	3	386	5,3	1450

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.

