AutomationDirect – GS Series Brake Resistors for AC Drives

GS Series: 80W–9.6 kW Brake Resistors Overview

Automation Direct GS series brake resistors are designed for use with any AC drive up to 600V. See the specifications section of your Automation Direct AC drive manual for the drive-to-resistor cross reference..

Open:

Encapsulated offerings from 80W to 5.0 kW.

Panel mount coil offerings from 750W to 1.5 kW.

Enclosed NEMA1:

Offerings from 1.0 kW to 9.6 kW.



GS-2020-BR-ENC



GS-2020-BR-ENC (cover removed for display)

Drive Usage Cross References

Refer to the online technical specifications below for a list of compatiblity between brake resistors and VFDs sold by AutomationDirect.

- For GS4 series drives, see GS4 Drive Braking Components.
- For GS10 series drives, see GS10 Drive Braking Components.
- For GS20 series drives, see GS20 Drive Braking Components.
- For GS20X series drives, see GS20X Drive Braking Components.
- For GS30 series drives, see GS30 Drive Braking Components.
- For Ironhorse ACG series drives, see ACG Drive Braking Components.
- For Ironhorse ACN series drives, see ACN Drive Braking Components.
- For WEG CFW500 series drives, see CFW500 Drive Braking Components.



GS-BR-400W150 (Open Encapsulated)



GS-BR-1K0W020 (Open Panel Coil)

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GS Series Specifications

Open Type Braking Resistor Specifications								
Туре	Part Number	Price	Power	Resistance (Ω)	Drawing Link	Connection Terminal Type		
Open- Encapuslated Flat Mount	GS-BR-080W200	\$17.00	00/4/	200	PDF	Wine Landa (450 man landth)		
	GS-BR-080W750	\$17.00	80W	750	PDF	Wire Leads (150mm length)		
	GS-BR-200W091	\$34.50	200W	91	PDF	Mira Laada (200mm lanath)		
	GS-BR-200W360	\$34.50	20000	360	PDF	Wire Leads (200mm length)		
	GS-BR-300W070	\$41.50		70	PDF			
	GS-BR-300W250	\$39.00	300W	250	PDF			
	GS-BR-300W400	\$32.00		400	PDF	Wire Leads (150mm length)		
	GS-BR-400W040	\$49.50	400W	40	PDF			
	GS-BR-400W150	\$46.50		150	PDF			
	GS-BR-500W100	\$38.50	500W	100	PDF	Blade conector		
	GS-BR-750W140	\$68.00	750W	140	PDF			
	GS-BR-1K0W4P3	\$110.00		4.3	PDF			
	GS-BR-1K0W5P1	\$110.00	1kW	5.1	PDF			
	GS-BR-1K0W016	\$110.00		16	PDF			
Open- Panel Mount Coil	GS-BR-1K0W020	\$110.00		20	PDF			
	GS-BR-1K0W075	\$110.00		75	PDF			
	GS-BR-1K2W3P9	\$121.00	1.2 kW	3.9	PDF	Blade conector		
	GS-BR-1K2W015	\$121.00		15	PDF			
	GS-BR-1K5W3P3	\$144.00	1.5 kW	3.3	<u>PDF</u>			
	GS-BR-1K5W012	\$144.00		12	PDF			
	GS-BR-1K5W013	\$144.00		13	<u>PDF</u>			
	GS-BR-1K5W040	\$125.00		40	<u>PDF</u>			
	GS-BR-1K5W043	\$144.00		43	PDF			

Open Type Brake Resistor General Specifications						
	Test Condition	Specification				
Operating Temperature	-	Open Encapsulated Flat Mount: -55 to 250 °C (when temp > 200°C use forced cooling with airspeed 3–10m/s) Open Panel Mount Coil: -55 to 600°C (when temp > 350°C, use forced cooling with airspeed 3–10m/s)				
Tolerance	@25°C	±5%				
Temperature Coefficient	-	±260ppm/°C				
Housing Material	-	Open Encapsulated Flat Mount: Oxidized aluminum Open Panel Mount Coil: Ceramic coating				
Isolation Resistance	Between terminals (terminal wire) and housing or mounting bracket	100MΩ @ 500VDC for 1 minute				
Dielectric Strength	Between terminals (terminal wire) and housing or mounting bracket	1500VAC for 1 minute				
Overload	Cycle 10s on ~90s off	10 x rated power				
Lead Pull Strength	-	2.5 kg for 10 seconds (not applicable when resistor has no leads)				
Vibration	10-55-10 Hz sweep in 1 minute, amplitude 0.75 mm	2 hours per direction				

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GS Series Specifications, continued

Enclosed Type Braking Resistor Specifications							
Туре	Part Number	Price	Power (kW)	Resistance (Ω)	Drawing Link	Connection Terminal Type	
	<u>GS-2010-BR-ENC</u>	\$358.00	1.0	20	<u>PDF</u>		
	<u>GS-2015-BR-ENC</u>	\$621.00	2.4	13.6	PDF		
	<u>GS-2020-BR-ENC</u>	\$689.00	3.0	10	<u>PDF</u>		
	<u>GS-2025-BR-ENC</u>	\$842.00	4.8	8	<u>PDF</u>		
Enclosed NEMA1 with Temperature switch	<u>GS-2030-BR-ENC</u>	\$827.00		6.8	PDF		
remperature switch	<u>GS-2040-BR-ENC</u>	\$689.00	3.0	10	<u>PDF</u>		
1 1	<u>GS-2050-BR-ENC</u>	\$842.00	4.8	8	<u>PDF</u>	Terminal block	
	GS-4015-BR-ENC	\$358.00	1.0	50	<u>PDF</u>		
	<u>GS-4020-BR-ENC</u>	\$445.00	1.5	40	PDF		
	GS-4025-BR-ENC	\$1,058.00	4.8	32	<u>PDF</u>		
	<u>GS-4030-BR-ENC</u>	\$1,058.00		27.2	PDF		
M. FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF	<u>GS-4040-BR-ENC</u>	\$1,058.00	6.0	20	<u>PDF</u>		
	<u>GS-4050-BR-ENC</u>	\$1,246.00	9.6	16	<u>PDF</u>		
	<u>GS-4060-BR-ENC</u>	\$1,246.00		13.6	<u>PDF</u>		
	<u>GS-4075-BR-ENC</u>	\$1,058.00	6.0	20	<u>PDF</u>		
	<u>GS-4100-BR-ENC</u>	\$1,246.00	9.6	13.6	<u>PDF</u>		

		egacy Bra	king Resistor	Specification	S	
Туре	Legacy Part Number	Price	Power (W)	Resistance (Ω)	Drawing Link	Replacement Part Number
Open	<u>GS-20P5-BR</u>	Retired	80	200	<u>PDF</u>	GS-BR-080W200
	<u>GS-21P0-BR</u>	Retired	80	200	PDF	GS-BR-080W200
	<u>GS-22P0-BR</u>	Retired	300	100	<u>PDF</u>	n/a
	GS-23P0-BR	Retired	300	70	PDF	GS-BR-300W070
	GS-25P0-BR	Retired	400	40	PDF	GS-BR-400W040
	<u>GS-27P5-BR</u>	\$49.50	500	30	PDF	n/a
	<u>GS-41P0-BR</u>	\$26.00	80	750	PDF	GS-BR-080W750
	<u>GS-42P0-BR</u>	\$58.00	300	400	PDF	GS-BR-300W400
	<u>GS-43P0-BR</u>	Retired	300	250	PDF	GS-BR-300W250
	GS-45P0-BR	\$70.00	400	150	PDF	GS-BR-400W150
	<u>GS-47P5-BR</u>	\$70.00	500	100	PDF	GS-BR-500W100
	<u>GS-4010-BR</u>	\$165.00	1.0 kW	75	<u>PDF</u>	<u>GS-BR-1K0W075</u>