

Overview



The excess energy of the DC link is dissipated via the braking resistor.

The corresponding braking resistor is connected to a Braking Module. The braking resistor is positioned outside the cabinet or switchgear room. This arrangement enables the resulting heat loss around the Line Modules/Motor Modules to be dissipated, thereby allowing a corresponding reduction in the level of air conditioning required.

2 braking resistors with different rated and peak power values are available for booksize format units.

The external braking resistor Plus must be used in combination with the HFD commutating reactor to dissipate large heat losses.

Technical specifications

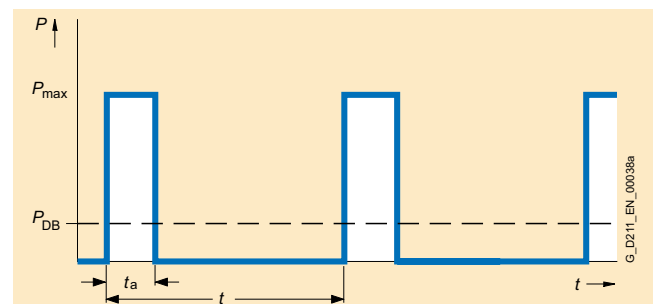
DC link voltage 510 ... 720 V DC

Order No.		6SN1113-1AA00-0DA0		6SL3100-1BE31-0AA0		6SL3100-1BE22-5AA0
Product name		Braking resistor for Braking Module in booksize format				External braking resistor Plus for Braking Module in booksize format
Resistor	Ω	17		5.7		15
Rated power P_{DB}	kW	0.3		1.5		1.5
Peak power P_{max}	kW	25		100		25
In-service period for peak power t_a	s	0.1	0.4	1	2	–
Period duration of braking duty cycle t	s	11.5	210	68	460	–
Degree of protection to EN 60529 (IEC 60529)		IP54 Braking resistor with connected 1.5 mm ² cable (shielded), 3 m (9.84 ft) long		IP20		IP20
Dimensions						
• Width	mm (in)	80 (3.15)		193 (7.6)		193 (7.6)
• Height	mm (in)	210 (8.27)		410 (16.14)		410 (16.14)
• Depth	mm (in)	53 (2.09)		240 (9.45)		240 (9.45)
Weight, approx.	kg (lb)	3.4 (8)		5.6 (12)		5.6 (12)
Approvals		cULus (File No.: E192450)		–		cULus (File No.: E192450)

Selection and Ordering Data

Designation	Order No.
DC link voltage 510 ... 720 V DC	
Braking resistor	
• 0.3 kW/25 kW	6SN1113-1AA00-0DA0
• 1.5 kW/100 kW	6SL3100-1BE31-0AA0
External braking resistor Plus	
• 1.5/25 kW/5 kW	6SL3100-1BE22-5AA0

Characteristic curves



Load diagram for Braking Module in booksize format and braking resistors for booksize format