

CHAPTER 9 BRAKING RESISTORS AND BRAKING UNITS

Voltage	Applicable Motor kW)		Full Load Torque KG-M	Resistors specification for each drive	Dynamic Brake Unit Model (DBU-xxxx) No. of Unit Used		Braking Resistors Model (DBR-xxxxxxx) No. of Units Used		Braking Torque 10% E.D.	Minimum resistance for each drive
	G1 H1	P1								
230V Class	0.4	0.75	0.216	80W 200Ω	Built-in		080W200	1	220	80Ω
	0.75	1.5	0.427	80W 200Ω			080W200	1	125	80Ω
	1.5	2.2	0.849	300W 100Ω			300W100	1	125	55Ω
	2.2	3.7	1.262	300W 70Ω			300W070	1	125	35Ω
	3.7	5.5	2.080	400W 40Ω			400W040	1	125	25Ω
	5.5	7.5	3.111	500W 30Ω			500W030	1	125	16Ω
	7.5	11	4.148	1000W 20Ω			1K0W020	1	125	12Ω
	11	15	6.186	2400W 13.6Ω	Built-in / 2015	1	1K2W6P8	2	125	13.6Ω
	15	18.5	8.248	3000W 10Ω	Built-in / 2015	1	1K5W005	2	125	10Ω
	18.5	22	10.281	4800W 8Ω	Built-in / 2022	1	1K2W008	4	125	8Ω
	22	30	12.338	4800W 6.8Ω	Built-in / 2022	1	1K2W6P8	4	125	6.8Ω
	30	37	16.497	6000W 5Ω	Built-in / 2022	2	1K5W005	4	125	5Ω
	37	45	20.6	9600W 4Ω	Built-in / 2022	2	1K2W008	8	125	4Ω
	45	55	24.754	9600W 3.4Ω	Built-in / 2022	2	1K2W008	8	125	3.4Ω
	55	75	31.11	12000W 2.5Ω	Built-in / 2022	3	1K5W005	8	125	2.5Ω
	75	90	42.7	19200W 1.7Ω	Built-in / 2022	4	1K2W6P8	16	125	1.7Ω
460V Class	0.75	1.5	0.427	80W 750Ω	Built-in		080W750	1	125	6.8Ω
	1.5	2.2	0.849	300W 400Ω			300W400	1	125	190Ω
	2.2	3.7	1.262	300W 250Ω			300W250	1	125	145Ω
	3.7	5.5	2.080	400W 150Ω			400W150	1	125	95Ω
	5.5	7.5	3.111	500W 100Ω			500W100	1	125	60Ω
	7.5	11	4.148	1000W 75Ω			1K0W075	1	125	45Ω
	11	15	6.186	1000W 50Ω			1K0W050	1	125	50Ω
	15	18.5	8.248	1500W 40Ω			1K5W040	1	125	40Ω
	18.5	22	10.281	4800W 32Ω	Built-in / 4030	1	1K2W008	4	125	32Ω
	22	30	12.338	4800W 27.2Ω	Built-in / 4030	1	1K2W6P8	4	125	27.2Ω
	30	37	16.497	6000W 20Ω	Built-in / 4030	1	1K5W005	4	125	20Ω
	37	45	20.6	9600W 16Ω	Built-in / 4045	1	1K2W008	8	125	16Ω
	45	55	24.754	9600W 13.6Ω	Built-in / 4045	1	1K2W6P8	8	125	13.6Ω
	55	75	31.11	12000W 10Ω	Built-in / 4030	2	1K5W005	8	125	10Ω
	75	90	42.7	19200W 6.8Ω	Built-in / 4045	2	1K2W6P8	16	125	6.8Ω

Note:

1. Please select the factory default resistance value (Watt) and the duty cycle (E.D. %).
2. If damage resulted in the inverter or other equipments due to the fact that the braking resistors and the braking modules in use are not provided by Toptek, the warranty will be void.
3. Take into consideration the safety of the environment when installing the braking resistors.
4. If the minimum resistance value is to be utilized, consult local dealers for the calculation of the Watt figures.
5. Please select thermal relay trip contact to prevent resistor over load.
6. When using more than 2 braking units, equivalent resistor value of parallel braking unit can't be less than the value in the column "**Minimum resistance for each drive**"