



IronHorse ACG Series Accessories

Braking Resistors

Dynamic braking absorbs the motor regeneration energy when the motor is decelerated faster than it would if it was allowed to coast to a stop. The regeneration energy is dissipated by braking resistors. All drives have the braking function built-in and do not require a separate dynamic braking unit. The recommended open type or NEMA 1 type brake resistors available at AutomationDirect for each drive model are listed in the table below.

Brake Resistors											
Voltage	Drive	Drive Power (HP)	Drive Braking Capacity-Max Torque			150% Braking Torque @ 5% Duty Cycle					
			Minimum Resistor	Max Total Brake Current (A)	Peak Power (kW)	Open Type Resistors			NEMA1 Resistors with Thermal Switch		
						ADC Part Number	Qty	Total Brake Current (A)	ADC Part Number	Qty	Total Brake Current (A)
230	ACG-20P5	0.5	250.0	1.6	0.6	GS-BR-300W250	1	1.6	BR-N1-240W250	1	1.6
	ACG-21P0	1	150.0	2.6	1.0	GS-BR-400W150	1	2.6	BR-N1-240W150	1	2.6
	ACG-22P0	2	50.0	7.8	3.0	GS-BR-300W070	1	5.6	BR-N1-280W50	1	7.8
	ACG-23P0	3	43.0	9.1	3.5	GS-BR-1K5W043	1	9.1	BR-N1-720W50	1	7.8
	ACG-25P0	5	25.0	15.6	6.1	GS-BR-1K2W015	2S	13.0	BR-N1-800W25	1	15.6
	ACG-27P5	7.5	18.0	21.7	8.5	GS-BR-1K0W020	1	19.5	BR-N1-800W18P0	1	21.7
	ACG-2010	10	14.0	27.9	10.9	GS-BR-1K2W015	1	26.0	BR-N1-1K5W14P0	1	27.9
	ACG-2015	15	8.6	45.3	17.7	GS-BR-1K5W012	1	32.5	BR-N1-2K2W08P6	1	45.3
	ACG-2020	20	8.0	48.8	19.0	GS-BR-1K2W015	2P	52.0	BR-N1-2K2W08P6	1	45.3
460	ACG-40P5	0.5	400.0	2.0	1.5	GS-BR-300W400	1	2.0	BR-N1-250W400	1	2.0
	ACG-41P0	1	400.0	2.0	1.5		1		BR-N1-240W250	1	
	ACG-42P0	2	250.0	3.1	2.4		1		BR-N1-500W200	1	3.1
	ACG-43P0	3	180.0	4.3	3.4	GS-BR-200W360	2P	4.3	BR-N1-720W85	1	9.2
	ACG-45P0	5	85.0	9.2	7.2	GS-BR-300W250	2P	6.2	BR-N1-720W85	1	9.2
	ACG-47P5	7.5	75.0	10.4	8.1	GS-BR-1K0W075	1	10.4	BR-N1-1K2W75	1	10.4
	ACG-4010	10	49.0	15.9	12.4	GS-BR-1K5W043	1	18.1	BR-N1-1K2W50	1	15.6
	ACG-4015	15	40.0	19.5	15.2	GS-BR-1K5W043	1	18.1	BR-N1-1K5W40	1	19.5
	ACG-4020	20	22.0	35.5	27.7		2P	36.3	BR-N1-2K3W26	1	30.0
	ACG-4025	25	20.0	39.0	30.4		2P		BR-N1-2K8W25	1	31.2
	ACG-4030	30	20.0	39.0	30.4		2P		BR-N1-3K6W20	1	39.0

Note: Where noted on resistor quantity, S = series wiring, P = parallel wiring.

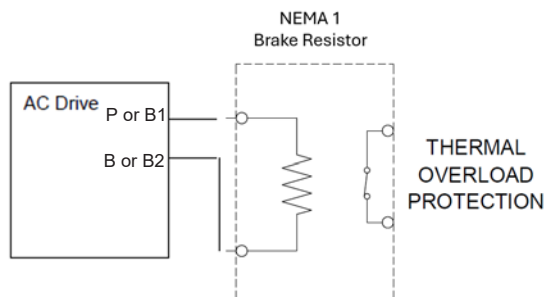
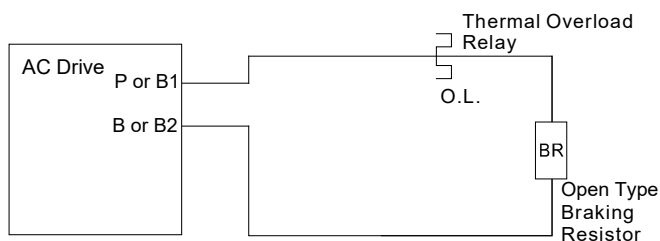


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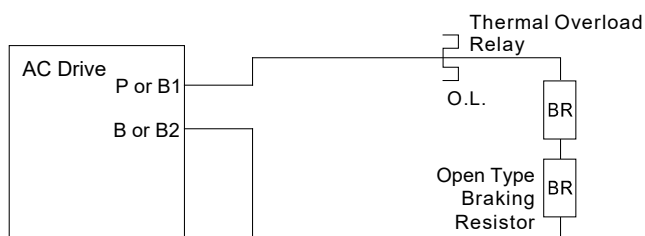
Brake Wiring

Use your drive's braking component selection table to determine the appropriate brake resistor model and configuration for your drive. Refer to the diagrams below for examples on how to wire each possible configuration.

Drive + 1 Resistor or NEMA1 Resistor:



Drive + 2 Series Resistors



Drive + 2 Parallel Resistors

