

# WEG CFW500 Compatible Accessories

## Braking Resistors for WEG CFW500 AC Drives

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.

WEG CFW500 AC Drive Braking Component Selection																							
Drive Voltage	WEG MAT#	Drive Model (CFW500xxxG2)	Drive Ratings				Drive Brake Capacity - Max Torque			125% Braking Torque @ 10% Duty Cycle*													
			IP**	Input Voltage Phases	Drive Rated Amps (A)	Motor Power (hp)	Resistor (Ω)	Max Current (A)	Peak Power (kW)	Open Type Braking Resistor			NEMA1 Resistors with Thermal Switch										
										Part #	Qty.	Total Brake Current (A)	Part #	Qty.	Total Brake Current (A)								
230V	<a href="#">15570800</a>	A01P6B2NB20		1/3	1.6	0.25	127	6	4.6	No Dynamic Braking (These Models)													
	<a href="#">15572819</a>	A01P0T4NB20		3	1					No Dynamic Braking (These Models)													
	<a href="#">14990863</a>	A01P6B2DB66DS	IP66D	1/3	1.6					127	6	4.6	GS-BR-400W150	1	2.6	BR-N1-240W150	1	2.6					
	<a href="#">14989840</a>	A01P6B2DB66	IP66			1	1																
	<a href="#">14991103</a>	A02P6B2DB66DS	IP66D			1	1																
	<a href="#">14990985</a>	A02P6B2DB66	IP66			1	1																
	<a href="#">15571879</a>	A02P6B2NB20			2.6	No Dynamic Braking (These Models)																	
	<a href="#">15572908</a>	A01P6T4NB20		3	1.6	0.75	No Dynamic Braking (These Models)																
	<a href="#">14991753</a>	A04P3B2DB66DS	IP66D	1/3	4.3	1	127	6	4.6	GS-BR-400W150	1	2.6	BR-N1-240W150	1	2.6								
	<a href="#">14991517</a>	A04P3B2DB66	IP66								1			1									
	<a href="#">15571881</a>	A04P3B2NB20									No Dynamic Braking (These Models)												
	<a href="#">15574655</a>	B07P3B2DB20	IP20								7.3			2		39	10	3.9	GS-BR-400W040	1	9.8	BR-N1-280W50	1
	<a href="#">14938005</a>	A07P3B2DB66DS	IP66D	1	1																		
	<a href="#">14937890</a>	A07P3B2DB66	IP66	1	1																		
	<a href="#">15572625</a>	A07P0T2NB20		No Dynamic Braking (These Models)																			
	<a href="#">15575067</a>	B10P0B2DB20	IP20		7	No Dynamic Braking (These Models)																	
	<a href="#">14938047</a>	A10P0B2DB66DS	IP66D	3	10	3	27	15	6.1	GS-BR-400W040	1	9.8	BR-N1-280W50	1	7.8								
	<a href="#">14938041</a>	A10P0B2DB66	IP66								1			1									
	<a href="#">15572689</a>	A09P6T2NB20									No Dynamic Braking (These Models)												
	<a href="#">15575202</a>	B16P0T2DB20	IP20											9.6		No Dynamic Braking (These Models)							
	<a href="#">14938113</a>	A16P0T2DB66DS	IP66D	3	16	5	20	20	8	GS-BR-400W040	1	9.8	BR-N1-800W25	1	15.6								
	<a href="#">14938111</a>	A16P0T2DB66	IP66								1			1									
	<a href="#">15575701</a>	C24P0T2DB20	IP20								No Dynamic Braking (These Models)												
	<a href="#">14975838</a>	B24P0T2DB66DS	IP66D								24			7.5		15	26	10.1	GS-BR-1K0W020	1	19.5	BR-N1-800W18P0	1
	<a href="#">14975783</a>	B24P0T2DB66	IP66	1	1																		
	<a href="#">15575716</a>	D28P0T2DB20	IP20	28	10	10	38	14.4	GS-BR-1K5W013	1		30.0	BR-N1-1K5W14P0		1					27.9			
	<a href="#">14938655</a>	B28P0T2DB66DS	IP66D							1					1								
	<a href="#">14938547</a>	B28P0T2DB66	IP66							1	1												
	<a href="#">15576540</a>	D47P0T2DB20	IP20							47	15			8.6	45	17.4	GS-BR-1K5W3P3	1	59.1		BR-N1-2K2W08P6	1	45.3
	<a href="#">15577077</a>	E56P0T2DB20	IP20	56	20	4.7	95	42.4	2S	59.1	BR-N1-2K2W06P8	1											
<a href="#">15342437</a>	F77P0T2DB20	IP20	77	25	6	66.7	26.7	2S	59.1			BR-N1-2K2W06P8	1										
<a href="#">15342760</a>	F88P0T2DB20	IP20	88					2S					59.1	BR-N1-3K6W06P8	1								
<a href="#">15342909</a>	F0105T2DB20	IP20	105	30	3	133	53.1	2S	59.1	BR-N1-3K6W06P8	1	114.7											

Table continued on next page

\* 10% Duty Cycle with maximum ON (braking) time for 10 seconds.

\*\* IP66D stands for IP66 with disconnect.

Note: Where noted in resistor quantity, S = series and P = parallel

# WEG CFW500 Compatible Accessories

## Braking Resistors for WEG CFW500 AC Drives, *continued*

WEG CFW500 AC Drive Braking Component Selection																		
Drive Voltage	WEG MAT#	Drive Model (CFW500xxxG2)	Drive Ratings				Drive Brake Capacity - Max Torque			125% Braking Torque @ 10% Duty Cycle*								
			IP**	Input Voltage Phases	Drive Rated Amps (A)	Motor Power (hp)	Resistor (Ω)	Max Current (A)	Peak Power (kW)	Open Type Braking Resistor			NEMA1 Resistors with Thermal Switch					
										Part #	Qty.	Total Brake Current (A)	Part #	Qty.	Total Brake Current (A)			
460V	<a href="#">14992148</a>	A01P6T4DB66DS	IP66D		1.6	0.25	127	6	4.6	GS-BR-400W150	1	5.3	BR-N1-240W150	1	5.3			
	<a href="#">14992113</a>	A01P6T4DB66									1			1				
	<a href="#">14991953</a>	A01P0T4DB66DS									1			1				
	<a href="#">14991899</a>	A01P0T4DB66	IP66		1	0.33						1			1			
	<a href="#">15573714</a>	A02P6T4NB20					No Dynamic Braking (These Models)											
	<a href="#">15575568</a>	B02P6T4DB20	IP20		2.6	1					GS-BR-400W150	1	5.3	BR-N1-240W150	1	5.3		
	<a href="#">14976517</a>	A02P6T4DB66DS	IP66D				127	6	4.6		GS-BR-400W150	1	5.3	BR-N1-240W150	1	5.3		
	<a href="#">14975888</a>	A02P6T4DB66	IP66									1			1			
	<a href="#">15573819</a>	A04P3T4NB20					No Dynamic Braking (These Models)											
	<a href="#">15575577</a>	B04P3T4DB20	IP20		4.3	2					GS-BR-400W150	1	5.3	BR-N1-240W150	1	5.3		
	<a href="#">14976809</a>	A04P3T4DB66DS	IP66D				127	6	4.6		GS-BR-400W150	1	5.3	BR-N1-240W150	1	5.3		
	<a href="#">14976683</a>	A04P3T4DB66	IP66									1			1			
	<a href="#">15573823</a>	A06P1T4NB20	-		6.1		No Dynamic Braking (These Models)											
	<a href="#">15575665</a>	B06P5T4DB20	IP20									2P	6.3	BR-N1-500W200	1	4.0		
	<a href="#">14977065</a>	A06P5T4DB66DS	IP66D		6.5	3	100	8	6.4		GS-BR-300W250	2P					1	
	<a href="#">14976814</a>	A06P5T4DB66	IP66									2P					1	
	<a href="#">15575699</a>	B10P0T4DB20	IP20									1	10.5	BR-N1-720W85	1	9.3		
	<a href="#">14977266</a>	A10P0T4DB66DS	IP66D		10	5	47	16	12		GS-BR-1K0W075	1					1	
	<a href="#">14977261</a>	A10P0T4DB66	IP66									1					1	
	<a href="#">15575707</a>	C14P0T4DB20	IP20	3								1	18.4	BR-N1-720W85	1	9.3		
	<a href="#">14977397</a>	B14P0T4DB66DS	IP66D		14	7.5	33	24	19					1				1
	<a href="#">14977391</a>	B14P0T4DB66	IP66			10								1				1
	<a href="#">16675711</a>	C16P0T4DB20	IP20									1	18.4	BR-N1-1K2W50	1	15.8		
	<a href="#">14977556</a>	B16P0T4DB66DS	IP66D		16	10	33	24	19		GS-BR-1K5W043	1					1	
	<a href="#">14977552</a>	B16P0T4DB66	IP66									1					1	
	<a href="#">15576919</a>	D24P0T4DB20	IP20									2P	39.5	BR-N1-1K5W40	1	19.8		
	<a href="#">14978365</a>	B24P0T4DB66DS	IP66D		24	15	22	34	25.4			2P					1	
	<a href="#">14977629</a>	B24P0T4DB66	IP66									2P					1	
	<a href="#">15577021</a>	D31P0T4DB20	IP20									2S2P	39.5	BR-N1-1K7W30	1	26.3		
	<a href="#">14978573</a>	B31P0T4DB66DS	IP66D		31	20	18	48	41.5		GS-BR-1K0W020	2S2P					1	
	<a href="#">14978548</a>	B31P0T4DB66	IP66									2S2P					1	
	<a href="#">15577211</a>	E39P0T4DB20	IP20			39	25	8.6	78	52.3		2S2P	60.8	BR-N1-2K3W26	1	30.4		
	<a href="#">15577452</a>	E49P0T4DB20	IP20			49	30	8.6	78	52.3		2S2P				1	39.5	
<a href="#">15733937</a>	F77P0T4DB20	IP20			77	40	12	66.7	53.4		2S2P				1	53.7		
<a href="#">15734064</a>	F88P0T4DB20	IP20									2S2P	65.8	BR-N1-6K9W13P6	1	58.1			
<a href="#">15734119</a>	F0105T4DB20	IP20		105	60	6.2	129	103.2		GS-BR-1K5W013GS-BR-1K5W013	2S2P				1	123.4		
<a href="#">15448371</a>	G0142T4DB20	IP20		142	75	3	267	208		GS-BR-1K5W012	2S2P				1	183.7		
<a href="#">15448372</a>	G0180T4DB20	IP20		180	100	3	267	208						1	213.5			
<a href="#">15448373</a>	G0211T4DB20	IP20		211	150	2.2	364	284					Not offered					

\* 10% Duty Cycle with maximum ON (braking) time for 10 seconds.

\*\* IP66D stands for IP66 with disconnect.

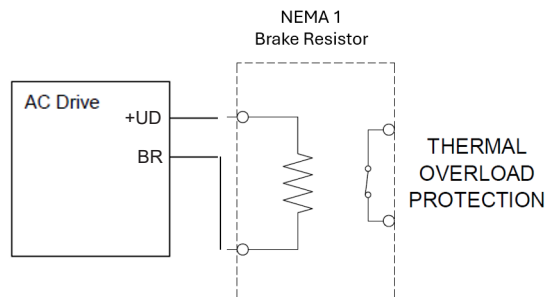
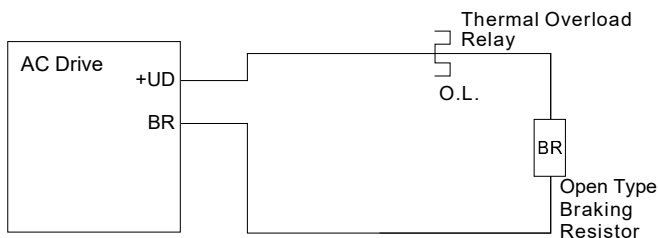
Note: Where noted in resistor quantity, S = series and P = parallel

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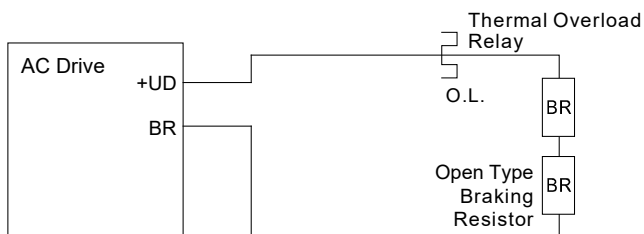
## Brake Wiring

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.

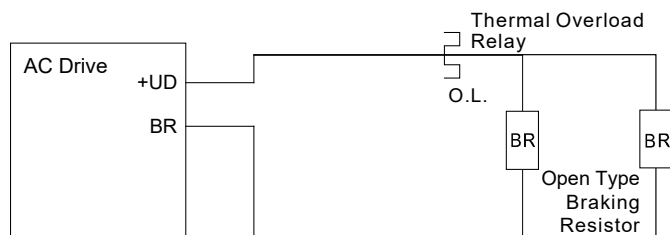
### Drive + 1 Resistor or NEMA1 Resistor:



### Drive + 2 Series Resistors:



### Drive + 2 Parallel Resistors:



### Drive + 2 Series and 2 Parallel Resistors:

