

## DC Converter

### Selection and ordering data

#### DC Converters for two-quadrant operation

Rated data				Field circuit		DC Converter	Fuses					
Armature circuit		Rated DC current	Rated power	Rated supply voltage <sup>1)</sup>	Rated DC current	Order No.	Armature circuit		Field circuit			
Rated supply voltage <sup>1)</sup>	Rated DC voltage						Phase	DC current	2 each			
V	V	A	kW	V	A		Type	Type	Type			
400 V 3 AC	485	60	29	400 V 2 AC	10	<b>6RA8025-6DS22-0AA0</b>	3NE1817-0	–	5SD420			
		90	44		10	<b>6RA8028-6DS22-0AA0</b>	3NE1820-0	–	5SD420			
		125	61		10	<b>6RA8031-6DS22-0AA0</b>	3NE1021-0	–	5SD420			
		210	102		15	<b>6RA8075-6DS22-0AA0</b>	3NE3227	–	5SD440			
		280	136		15	<b>6RA8078-6DS22-0AA0</b>	3NE3231	–	5SD440			
		400	194		25	<b>6RA8081-6DS22-0AA0</b>	3NE3233	–	5SD440			
		600	291		25	<b>6RA8085-6DS22-0AA0</b>	3NE3336	–	5SD440			
		850	412		30	<b>6RA8087-6DS22-0AA0</b>	3NE3338-8	–	5SD480			
		1 200	582		480 V 2 AC	40	<b>6RA8091-6DS22-0AA0</b>	– <sup>2)</sup>	–	3NE1802-0 <sup>3)</sup>		
		1 600	776			40	<b>6RA8093-4DS22-0AA0</b>	– <sup>2)</sup>	–	3NE1802-0 <sup>3)</sup>		
		2 000	970			40	<b>6RA8095-4DS22-0AA0</b>	– <sup>2)</sup>	–	3NE1802-0 <sup>3)</sup>		
		3 000	1 455			40	<b>6RA8098-4DS22-0AA0</b>	– <sup>2)</sup>	–	3NE1802-0 <sup>3)</sup>		
480 V 3 AC	575	60	35	480 V 2 AC	10	<b>6RA8025-6FS22-0AA0</b>	3NE1817-0	–	5SD420			
		90	52		10	<b>6RA8028-6FS22-0AA0</b>	3NE1820-0	–	5SD420			
		125	72		10	<b>6RA8031-6FS22-0AA0</b>	3NE1021-0	–	5SD420			
		210	121		15	<b>6RA8075-6FS22-0AA0</b>	3NE3227	–	5SD440			
		280	161		15	<b>6RA8078-6FS22-0AA0</b>	3NE3231	–	5SD440			
		450	259		25	<b>6RA8082-6FS22-0AA0</b>	3NE3233	–	5SD440			
		600	345		25	<b>6RA8085-6FS22-0AA0</b>	3NE3336	–	5SD440			
		850	489		30	<b>6RA8087-6FS22-0AA0</b>	3NE3338-8	–	5SD480			
		1 200	690		40	<b>6RA8091-6FS22-0AA0</b>	– <sup>2)</sup>	–	3NE1802-0 <sup>3)</sup>			
		575 V 3 AC	690		60	41	480 V 2 AC	10	<b>6RA8025-6GS22-0AA0</b>	3NE1817-0	–	5SD420
					125	86		10	<b>6RA8031-6GS22-0AA0</b>	3NE1021-0	–	5SD420
					210	145		15	<b>6RA8075-6GS22-0AA0</b>	3NE3227	–	5SD440
400	276			25	<b>6RA8081-6GS22-0AA0</b>	3NE3233		–	5SD440			
600	414			25	<b>6RA8085-6GS22-0AA0</b>	3NE3336		–	5SD440			
800	552			30	<b>6RA8087-6GS22-0AA0</b>	3NE3338-8		–	5SD480			
1 100	759			40	<b>6RA8090-6GS22-0AA0</b>	– <sup>2)</sup>		–	3NE1802-0 <sup>3)</sup>			
1 600	1 104			40	<b>6RA8093-4GS22-0AA0</b>	– <sup>2)</sup>		–	3NE1802-0 <sup>3)</sup>			
2 000	1 380			40	<b>6RA8095-4GS22-0AA0</b>	– <sup>2)</sup>		–	3NE1802-0 <sup>3)</sup>			
2 200	1 518			40	<b>6RA8096-4GS22-0AA0</b>	– <sup>2)</sup>		–	3NE1802-0 <sup>3)</sup>			
690 V 3 AC	830	720	598	480 V 2 AC	30	<b>6RA8086-6KS22-0AA0</b>	3NE3337-8	–	5SD480			
		1 000	830		40	<b>6RA8090-6KS22-0AA0</b>	– <sup>2)</sup>	–	3NE1802-0 <sup>3)</sup>			
		1 500	1 245		40	<b>6RA8093-4KS22-0AA0</b>	– <sup>2)</sup>	–	3NE1802-0 <sup>3)</sup>			
		2 000	1 660		40	<b>6RA8095-4KS22-0AA0</b>	– <sup>2)</sup>	–	3NE1802-0 <sup>3)</sup>			
		2 600	2 158		40	<b>6RA8097-4KS22-0AA0</b>	– <sup>2)</sup>	–	3NE1802-0 <sup>3)</sup>			
830 V 3 AC	1 000	950	950	480 V 2 AC	40	<b>6RA8088-6LS22-0AA0</b>	– <sup>2)</sup>	–	3NE1802-0 <sup>3)</sup>			
		1 500	1 500		40	<b>6RA8093-4LS22-0AA0</b>	– <sup>2)</sup>	–	3NE1802-0 <sup>3)</sup>			
		1 900	1 900		40	<b>6RA8095-4LS22-0AA0</b>	– <sup>2)</sup>	–	3NE1802-0 <sup>3)</sup>			
950 V 3 AC	1 140	2 200	2 508	480 V 2 AC	40	<b>6RA8096-4MS22-0AA0</b>	– <sup>2)</sup>	–	3NE1802-0 <sup>3)</sup>			

DC Converters for four-quadrant operation

Rated data				DC Converter			Fuses					
Armature circuit				Field circuit			Armature circuit		Field circuit			
Rated supply voltage <sup>1)</sup>	Rated DC voltage	Rated DC current	Rated power	Rated supply voltage <sup>1)</sup>	Rated DC current	Order No.	Phase	DC current	2 each			
V	V	A	kW	V	A		Type	Type	Type			
400 V 3 AC	420	15	6.3	400 V 2 AC	3	6RA8013-6DV62-0AA0	3NE1814-0	3NE1814-0	5SD420			
		30	12.6		5	6RA8018-6DV62-0AA0	3NE8003-1	3NE4102	5SD420			
		60	25		10	6RA8025-6DV62-0AA0	3NE1817-0	3NE4120	5SD420			
		90	38		10	6RA8028-6DV62-0AA0	3NE1820-0	3NE4122	5SD420			
		125	53		10	6RA8031-6DV62-0AA0	3NE1021-0	3NE4124	5SD420			
		210	88		15	6RA8075-6DV62-0AA0	3NE3227	3NE3227	5SD440			
		280	118		15	6RA8078-6DV62-0AA0	3NE3231	3NE3231	5SD440			
		400	168		25	6RA8081-6DV62-0AA0	3NE3233	3NE3233	5SD440			
		600	252		25	6RA8085-6DV62-0AA0	3NE3336	3NE3336	5SD440			
		850	357		30	6RA8087-6DV62-0AA0	3NE3338-8	3NE3334-0B <sup>3)</sup>	5SD480			
		1 200	504		480 V 2 AC	40	6RA8091-6DV62-0AA0	- <sup>2)</sup>	- <sup>2)</sup>	3NE1802-0 <sup>4)</sup>		
		1 600	672			40	6RA8093-4DV62-0AA0	- <sup>2)</sup>	- <sup>2)</sup>	3NE1802-0 <sup>4)</sup>		
		2 000	840			40	6RA8095-4DV62-0AA0	- <sup>2)</sup>	- <sup>2)</sup>	3NE1802-0 <sup>4)</sup>		
		3 000	1 260			40	6RA8098-4DV62-0AA0	- <sup>2)</sup>	- <sup>2)</sup>	3NE1802-0 <sup>4)</sup>		
480 V 3 AC	500	15	6	480 V 2 AC	3	6RA8013-6FV62-0AA0	3NE1814-0	3NE1814-0	5SD420			
		30	15		5	6RA8018-6FV62-0AA0	3NE1815-0	3NE4102	5SD420			
		60	30		10	6RA8025-6FV62-0AA0	3NE1817-0	3NE4120	5SD420			
		90	45		10	6RA8028-6FV62-0AA0	3NE1820-0	3NE4122	5SD420			
		125	63		10	6RA8031-6FV62-0AA0	3NE1021-0	3NE4124	5SD420			
		210	105		15	6RA8075-6FV62-0AA0	3NE3227	3NE3227	5SD440			
		280	140		15	6RA8078-6FV62-0AA0	3NE3231	3NE3231	5SD440			
		450	225		25	6RA8082-6FV62-0AA0	3NE3233	3NE3334-0B	5SD440			
		600	300		25	6RA8085-6FV62-0AA0	3NE3336	3NE3336	5SD440			
		850	425		30	6RA8087-6FV62-0AA0	3NE3338-8	3NE3334-0B <sup>3)</sup>	5SD480			
		1 200	600		40	6RA8091-6FV62-0AA0	- <sup>2)</sup>	- <sup>2)</sup>	3NE1802-0 <sup>4)</sup>			
		575 V 3 AC	600		60	36	480 V 2 AC	10	6RA8025-6GV62-0AA0	3NE1817-0	3NE4120	5SD420
					125	75		10	6RA8031-6GV62-0AA0	3NE1021-0	3NE4124	5SD420
					210	126		15	6RA8075-6GV62-0AA0	3NE3227	3NE3227	5SD440
400	240			25	6RA8081-6GV62-0AA0	3NE3233		3NE3233	5SD440			
600	360			25	6RA8085-6GV62-0AA0	3NE3336		3NE3336	5SD440			
850	510			30	6RA8087-6GV62-0AA0	3NE3338-8		3NE3334-0B <sup>3)</sup>	5SD480			
1 100	660			40	6RA8090-6GV62-0AA0	- <sup>2)</sup>		- <sup>2)</sup>	3NE1802-0 <sup>4)</sup>			
1 600	960			40	6RA8093-4GV62-0AA0	- <sup>2)</sup>		- <sup>2)</sup>	3NE1802-0 <sup>4)</sup>			
2 000	1 200			40	6RA8095-4GV62-0AA0	- <sup>2)</sup>		- <sup>2)</sup>	3NE1802-0 <sup>4)</sup>			
2 200	1 320			40	6RA8096-4GV62-0AA0	- <sup>2)</sup>		- <sup>2)</sup>	3NE1802-0 <sup>4)</sup>			
2 800	1 680			40	6RA8097-4GV62-0AA0	- <sup>2)</sup>		- <sup>2)</sup>	3NE1802-0 <sup>4)</sup>			
690 V 3 AC	725			760	551	480 V 2 AC		30	6RA8086-6KV62-0AA0	3NE3337-8	3NE3334-0B <sup>3)</sup>	5SD420
				1 000	725			40	6RA8090-6KV62-0AA0	- <sup>2)</sup>	- <sup>2)</sup>	3NE1802-0 <sup>4)</sup>
				1 500	1 088			40	6RA8093-4KV62-0AA0	- <sup>2)</sup>	- <sup>2)</sup>	3NE1802-0 <sup>4)</sup>
		2 000	1 450	40	6RA8095-4KV62-0AA0		- <sup>2)</sup>	- <sup>2)</sup>	3NE1802-0 <sup>4)</sup>			
		2 600	1 885	40	6RA8097-4KV62-0AA0		- <sup>2)</sup>	- <sup>2)</sup>	3NE1802-0 <sup>4)</sup>			
830 V 3 AC	875	950	831	480 V 2 AC	40	6RA8088-6LV62-0AA0	- <sup>2)</sup>	- <sup>2)</sup>	3NE1802-0 <sup>4)</sup>			
		1 500	1 313		40	6RA8093-4LV62-0AA0	- <sup>2)</sup>	- <sup>2)</sup>	3NE1802-0 <sup>4)</sup>			
		1 900	1 663		40	6RA8095-4LV62-0AA0	- <sup>2)</sup>	- <sup>2)</sup>	3NE1802-0 <sup>4)</sup>			
950 V 3 AC	1 000	2 200	2 200	480 V 2 AC	40	6RA8096-4MV62-0AA0	- <sup>2)</sup>	- <sup>2)</sup>	3NE1802-0 <sup>4)</sup>			