

SIMOVERT MASTERDRIVES Vector Control

Compact PLUS, Compact and Chassis Units



Braking units and braking resistors

Compact PLUS units
Compact and chassis units

Selection and ordering data

Braking resistors for Compact PLUS units

Braking power ¹⁾				Braking resistor		Dimensions	Dimension drawing, see Section 7	Weight
P_{20}	P_3	P_{DB}	Resistance	Cycle time T	Order No.	W x H x D	No.	kg
kW	kW	kW	Ω	s		mm		
2 ³⁾	3	0.15	200	3200	6SE7013-2ES87-2DC0	44 x 250 x 120	21	1.4
4 ³⁾	6	0.3 ⁴⁾	100	6400	6SE7016-3ES87-2DC0	44 x 250 x 120	21	1.9
5	7.5	1.25	80	90	6SE7018-0ES87-2DC0	145 x 180 x 540	22	6
10	15	2.5	40	90	6SE7021-6ES87-2DC0	145 x 360 x 540	22	12
12³⁾	18	0.9 ⁵⁾	33.3	6400	6SE7022-0ES87-2DC0	134 x 350 x 203	23	6.8
20	30	5	20	90	6SE7023-2ES87-2DC0	450 x 305 x 485	24	17
50	75	12.5	8	90	6SE7028-0ES87-2DC0	745 x 305 x 485	24	27
100	150	25	4	90	6SE7031-6ES87-2DC0	745 x 605 x 485	25	47

Braking units and braking resistors for compact and chassis units

Braking power ¹⁾				Braking unit	Dimensions	Weight	Braking resistor, external		Dimensions	Dimension drawing, see Section 7	Weight
P_{20}	P_3	P_{DB} external	P_{DB} internal	Order No.	W x H x D	kg	Order No.	Resistance ²⁾	B x H x T	No.	kg
kW	kW	kW	kW		mm			Ω	mm		
DC link voltage 510 V to 650 V DC²⁾											
5	7.5	1.25	0.16	6SE7018-0ES87-2DA0	45 x 425 x 350	6	6SE7018-0ES87-2DC0	80	145 x 180 x 540	20; 22	6
10	15	2.5	0.32	6SE7021-6ES87-2DA0	45 x 425 x 350	6	6SE7021-6ES87-2DC0	40	145 x 360 x 540	20; 22	11.5
20	30	5	0.63	6SE7023-2EA87-2DA0	90 x 425 x 350	11	6SE7023-2ES87-2DC0	20	430 x 305 x 485	20; 24	17
50	75	12.5	–	6SE7028-0EA87-2DA0	90 x 425 x 350	11	6SE7028-0ES87-2DC0	8	740 x 305 x 485	20; 24	27
100	150	25	–	6SE7031-6EB87-2DA0	135 x 425 x 350	18	6SE7031-6ES87-2DC0	4	740 x 605 x 485	20; 25	47
170	255	42.5	–	6SE7032-7EB87-2DA0	135 x 425 x 350	18	6SE7032-7ES87-2DC0	2.35	740 x 1325 x 485	20; 26	103
DC link voltage 675 V to 810 V DC²⁾											
5	7.5	1.25	0.16	6SE7016-4FS87-2DA0	45 x 425 x 350	6	6SE7016-4FS87-2DC0	124	145 x 180 x 540	20; 22	6
10	15	2.5	0.32	6SE7021-3FS87-2DA0	45 x 425 x 350	6	6SE7021-3FS87-2DC0	62	145 x 360 x 540	20; 22	11.5
50	75	12.5	–	6SE7026-4FA87-2DA0	90 x 425 x 350	11	6SE7026-4FS87-2DC0	12.4	740 x 305 x 485	20; 24	27
100	150	25	–	6SE7031-3FB87-2DA0	135 x 425 x 350	18	6SE7031-3FS87-2DC0	6.2	740 x 605 x 485	20; 25	43
200	300	50	–	6SE7032-5FB87-2DA0	135 x 425 x 350	18	6SE7032-5FS87-2DC0	3.1	740 x 1325 x 485	20; 26	95
DC link voltage 890 V to 930 V DC²⁾											
50	75	12.5	–	6SE7025-3HA87-2DA0	90 x 425 x 350	11	6SE7025-3HS87-2DC0	17.8	740 x 305 x 485	20; 24	28
200	300	50	–	6SE7032-1HB87-2DA0	135 x 425 x 350	18	6SE7032-1HS87-2DC0	4.45	740 x 1325 x 485	20; 26	101

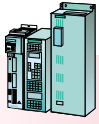
1) For power definition, see Section 6.

2) Permits the braking power for
Switch-on application threshold = 774 V
(\cong Supply voltage 3 AC 460 V)
Switch-on application threshold = 967 V
(\cong Supply voltage 3 AC 575 V)
Switch-on application threshold = 1158 V
(\cong Supply voltage 3 AC 690 V)

3) Braking resistor in type Compact PLUS for occasionally incurring braking energy, e. g. emergency stop.

4) CSA rating 240 W.

5) CSA rating 720 W.



SIMOVERT MASTERDRIVES Vector Control Compact PLUS, Compact and Chassis Units

Compact PLUS units
Compact and chassis units

Braking units and braking resistors

recommended for connection to converter

recommended for connection to rectifier unit

6SE7011-5EP60; 6SE7013-0EP60; 6SE7015-0EP60

6SE7018-0EP60; 6SE7021-0EP60

6SE7011-5EP60; 6SE7013-0EP60; 6SE7015-0EP60

6SE7018-0EP60; 6SE7021-0EP60

6SE7021-4EP60; 6SE7022-1EP60

6SE7021-4EP60; 6SE7022-1EP60; 6SE7022-7EP60; 6SE7023-4EP60

6SE7024-1EP85-0AA0

6SE7031-2EP85-0AA0

6SE7032-3EP85-0AA0

Power connections: Terminals

DC voltage: Top
External resistor: Bottom

Connectable cable cross-section

Finely stranded

Single- and multi-stranded

mm²

mm²

Power connections: Lugs

DC voltage: Top
External resistor: Bottom

Cable cross-section

Retaining bolt

mm²

1.5 to 4

1.5 to 4

-

-

1.5 to 4

1.5 to 4

-

-

2.5 to 10

2.5 to 16

-

-

2.5 to 10

2.5 to 16

-

-

-

-

max. 1 x 95

M 8

-

-

max. 1 x 95

M 8

1.5 to 4

1.5 to 4

-

-

1.5 to 4

1.5 to 4

-

-

2.5 to 10

2.5 to 16

-

-

-

-

max. 1 x 95

M 8

-

-

max. 1 x 95

M 8

2.5 to 10

2.5 to 16

-

-

-

-

max. 1 x 95

M 8