MANUFACTURER DOCUMENT PACKAGE

Manufacturer's Manual

Reference package for procurement and maintenance review

SIEMENS

6SL3120-2TE13-0AA3

BOOKSIZE DOUBLE MOTOR MODULE

Used with the applicable SINAMICS S120 configuration.

REFERENCE PACKAGE

OFFICIAL DOCUMENT

Selected official manufacturer pages follow this cover.

Source: Siemens GH2 Booksize Power Units, 2TE13-0AAx family, PDF p. 176

4.2.4 Dimension drawings

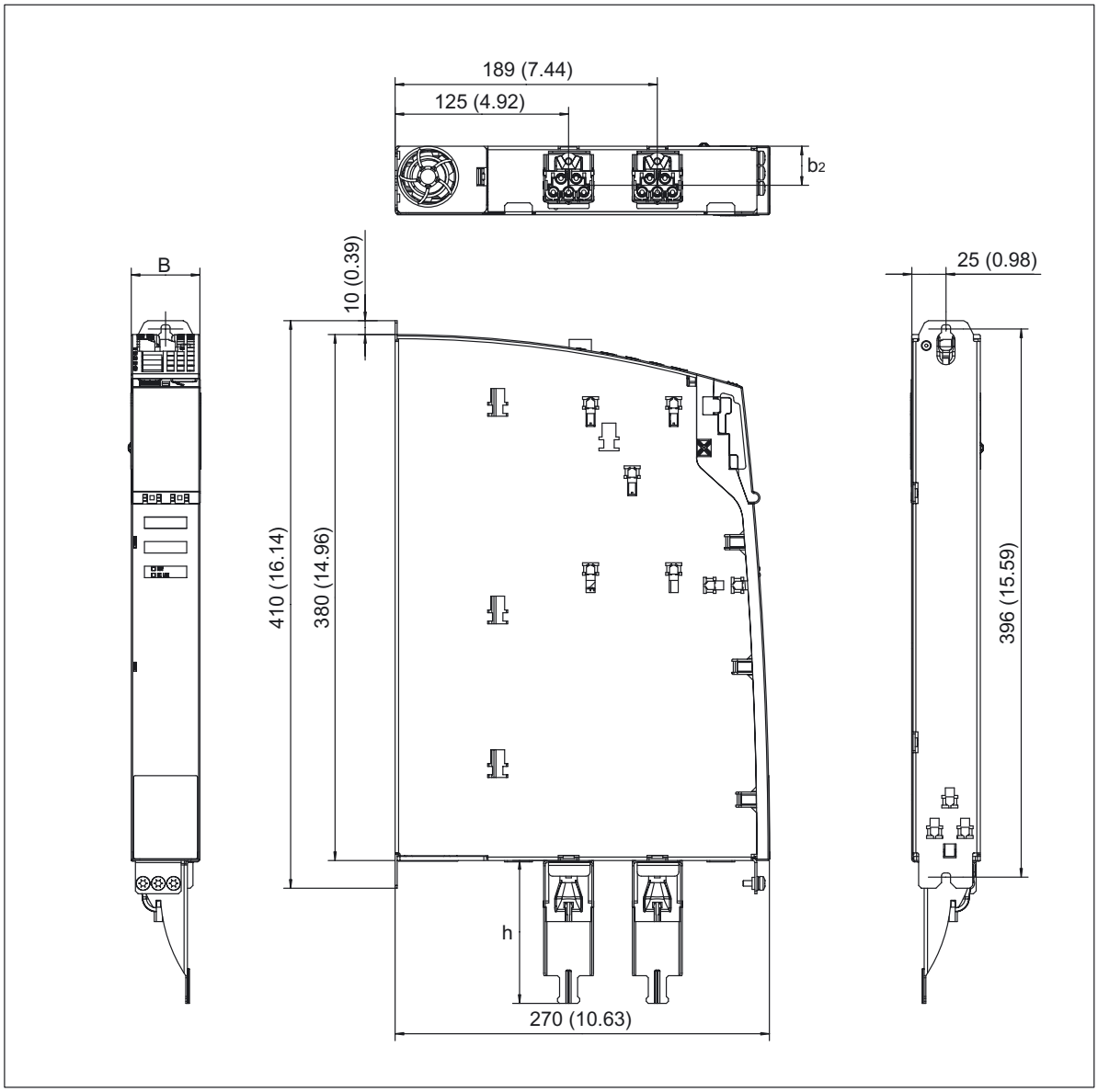


Figure 4-5 Dimension drawing of Motor Module with internal air cooling 3 A to 18 A and 2 x 3 A to 2 x 9 A

Table 4-6 Dimensions of Motor Module with internal air cooling 3 A to 18 A and 2 x 3 A to 2 x 9 A

Motor Module type	Order number:	W [mm] (inches)	w_2 [mm] (inches)	h [mm] (inches)
Single motor module 3 A	6SL3120-1TE13-0AAx	50 (1.97)	28 (1.10)	105 (4.13)
Single motor module 5 A	6SL3120-1TE15-0AAx	50 (1.97)	28 (1.10)	105 (4.13)
Single motor module 9 A	6SL3120-1TE21-0AAx	50 (1.97)	28 (1.10)	105 (4.13)
Single motor module 18 A	6SL3120-1TE21-8AAx	50 (1.97)	28 (1.10)	105 (4.13)
Double motor module 3 A	6SL3120-2TE13-0AAx	50 (1.97)	28 (1.10)	105 (4.13)
Double motor module 5 A	6SL3120-2TE15-0AAx	50 (1.97)	28 (1.10)	105 (4.13)
Double motor module 9 A	6SL3120-2TE21-0AAx	50 (1.97)	28 (1.10)	105 (4.13)

Table 4-12 Technical data for Double Motor Modules booksize (3 to 18A)

Internal air cooling	6SL3120-	2TE13-0AAx	2TE15-0AAx	2TE21-0AAx	2TE21-8AAx
Rated current	**A**	**2x3**	**2x5**	**2x9**	**2x18**
Voltage					
Power supply: DC link voltage Electronics power supply	 V_{DC} V_{DC}	 510 – 750 24 (20.4 - 28.8)			
Output voltage	V_{ACrms}	0 - 0.67 x DC link voltage			
Overvoltage tripping Undervoltage tripping	V_{DC} V_{DC}	820 ± 2% 380 ± 2%			
Electronics current consumption at 24 V	A_{DC}	1.0	1.0	1.0	1.0
Total power loss (including electronic losses)[1]	W	94	129	184	344
Rated output current (I_n)	A	2x3	2x5	2x9	2x18
Base load current (I_{base})	A	2x2.6	2x4.3	2x7.7	2x15.3
Intermittent duty current (I_{S6}) 40%	A_{ACrms}	2x3.5	2x6	2x10	2x24
Peak current (I_{max})	A_{ACrms}	2x6	2x10	2x18	2x36
DC link busbar current carrying capacity	A	100	100	100	100
24 V busbar current carrying capacity	A	20	20	20	20
Rated power (600V, 4kHz)	kW	1.6	2.7	4.8	9.7
Max. pulse frequency without derating	kHz	4	4	4	4
Max. pulse frequency with derating	kHz	16	16	16	16
Max. ambient temperature without derating	°C	40	40	40	40
Max. ambient temperature with derating	°C	55	55	55	55
DC link capacitance	µF	110	220	220	705
Efficiency (4kHz)	η	0.97	0.97	0.97	0.97
Sound pressure level	dBA	<60	<60	<60	<60
Cooling method		Internal fan	Internal fan	Internal fan	Internal fan
Cooling air requirement	m^3/h	29.6	29.6	29.6	56
Weight	kg	5.3	5.3	5.5	6.8

[1] For an overview, see the power loss tables in Cabinet Design.

Rated duty cycles of Motor Modules booksize

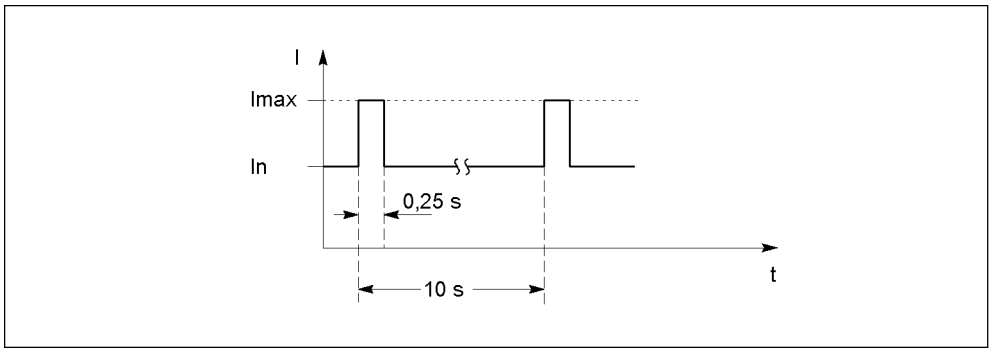


Figure 4-11 Peak current duty cycle with prior loading