

Design



Single Motor Module in booksize format

In principle, all Single Motor Modules can be operated on Basic Line Modules, Smart Line Modules, or Active Line Modules of the appropriate voltage range. A broad range of Single Motor Modules is available graded according to current and power.

The Single Motor Modules in booksize format feature the following connections and interfaces as standard:

- 2 DC link connections via integrated DC link busbars
- 1 electronics power supply connection via integrated 24 V DC busbars
- 3 DRIVE-CLiQ sockets
- 1 motor connection, plug-in (not included in scope of supply) or screw-stud depending on rated output current
- 1 safe standstill input (enable pulses)
- 1 safe motor brake control
- 1 temperature sensor input (KTY84-130 or PTC)
- 2 PE (protective earth) connections

The status of the Motor Modules is indicated via two multi-color LEDs.

The motor cable shield is inside the connector on 50 mm (1.97 in) and 100 mm (3.94 in) wide Motor Modules. A shield connection plate can be supplied for 150 mm (5.91 in), 200 mm (7.87 in) and 300 mm (11.8 in) wide Motor Modules. On these modules, the motor cable shield can be connected using a tube clip.

The signal cable shield can be connected to the Motor Module by means of a shield connection terminal, e.g. Weidmüller type KLBÜ 3-8 SC.

The scope of supply of the Motor Modules includes:

- DRIVE-CLiQ cable appropriate to the width of the Motor Module for connection to the adjacent Motor Module, length = width of Motor Module + 0.06 m (2.4 in)
- Jumper for connecting the 24 V DC busbar to the adjacent Motor Module
- Connector X21
- Connector X11 for the motor brake connection (for Motor Modules with a rated output current of 45 A to 200 A)
- 2 blanking plugs for sealing unused DRIVE-CLiQ sockets
- Fan insert for the 132 A and 200 A Motor Modules (the voltage for the fan insert is supplied by the Motor Module)
- 1 set of warning signs in 30 languages
- 1 heat conducting foil (for Motor Modules with cold plate cooling only)

Drive systems

SINAMICS S120 built-in devices

Single Motor Modules in booksize format

Selection and ordering data

Rated output current A	Type rating	Single Motor Module in booksize format			
	kW (hp) ¹⁾	Internal air cooling Article No.	External air cooling Article No.	Cold-plate cooling Article No.	Liquid cooling Article No.
DC link voltage 510 ... 720 V DC					
3	1.6 (1.5)	6SL3120-1TE13-0AA4	6SL3121-1TE13-0AA4	6SL3126-1TE13-0AA4	—
5	2.7 (3)	6SL3120-1TE15-0AA4	6SL3121-1TE15-0AA4	6SL3126-1TE15-0AA4	—
9	4.8 (5)	6SL3120-1TE21-0AA4	6SL3121-1TE21-0AA4	6SL3126-1TE21-0AA4	—
18	9.7 (10)	6SL3120-1TE21-8AA4	6SL3121-1TE21-8AA4	6SL3126-1TE21-8AA4	—
30	16 (20)	6SL3120-1TE23-0AA3	6SL3121-1TE23-0AA3	6SL3126-1TE23-0AA3	—
45	24 (30)	6SL3120-1TE24-5AA3	6SL3121-1TE24-5AA3	6SL3126-1TE24-5AA3	—
60	32 (40)	6SL3120-1TE26-0AA3	6SL3121-1TE26-0AA3	6SL3126-1TE26-0AA3	—
85	46 (60)	6SL3120-1TE28-5AA3	6SL3121-1TE28-5AA3	6SL3126-1TE28-5AA3	—
132	71 (100)	6SL3120-1TE31-3AA3	6SL3121-1TE31-3AA3	6SL3126-1TE31-3AA3	—
200	107 (150)	6SL3120-1TE32-0AA4	6SL3121-1TE32-0AA4	6SL3126-1TE32-0AA4	6SL3125-1TE32-0AA4

Accessories

For selection and ordering data regarding the load-side power components and the DC link components, see Catalog PM 21, Chapter 3 "Load-side power components" and "DC link components".

More information

For detailed technical information, see Catalog PM 21, Chapter 3 "Single Motor Modules in booksize format".