

1FT7 Compact standard type, water cooling

Motor type (continued)	Static current I_0 at M_0 $\Delta T = 100$ K A	Calculated power P_{calc} ⁵⁾ P_{calc} for M_0 $\Delta T = 100$ K kW (HP)	SIMODRIVE 611 power module		Power cable with complete shield ³⁾ Motor connection (and brake connection) via power connector		
			Rated output current ²⁾ I_{rated} A	Order No.	Power connector Size	Cable cross- section ¹⁾ mm ²	Pre-assembled cable Order No.
1FT7062-5WF7...	7.4	3.1 (4.16)	9	6SN112_ - 1A_00 - 0BA2	1	4 x 1.5	6FX_002 - 5_ A01 -
1FT7064-5WF7...	11.9	5.0 (6.71)	18	6SN112_ - 1A_00 - 0CA2	1	4 x 1.5	6FX_002 - 5_ A01 -
1FT7066-5WF7...	14	6.3 (8.45)	18	6SN112_ - 1A_00 - 0CA2	1	4 x 1.5	6FX_002 - 5_ A01 -
1FT7068-5WF7...	19	9.4 (12.6)	18 ⁴⁾	6SN112_ - 1A_00 - 0CA2	1	4 x 2.5	6FX_002 - 5_ A11 -
1FT7082-5WF7...	16	6.6 (8.85)	18	6SN112_ - 1A_00 - 0CA2	1.5	4 x 2.5	6FX_002 - 5_ A31 -
1FT7084-5WF7...	23	11.0 (14.8)	28	6SN112_ - 1AA00 - 0DA2	1.5	4 x 4	6FX_002 - 5_ A41 -
1FT7086-5WF7...	34	15.7 (21.1)	42	6SN112_ - 1AA00 - 0LA2	1.5	4 x 6	6FX_002 - 5_ A51 -
1FT7102-5WF7...	40	15.7 (21.1)	42	6SN112_ - 1AA00 - 0LA2	1.5 ³⁾	4 x 10	6FX_002 - 5_ A61 -
1FT7105-5WF7...	53.2	28.3 (38.0)	56	6SN112_ - 1AA00 - 0EA2	3 ³⁾	4 x 16	6FX_002 - 5_ A23 -
1FT7108-5WF7...	65	39.3 (52.7)	70	6SN112_ - 1AA01 - 0FA2	3 ³⁾	4 x 16	6FX_002 - 5_ A23 -
Heat dissipation: Internal heat dissipation External heat dissipation				3 4			
Power module: Single-axis design Two-axis design				A B			
Type of power cable: MOTION-CONNECT 800 MOTION-CONNECT 500						8 5	
Without brake cores With brake cores							C D
For length code as well as power and signal cables, see Connection system MOTION-CONNECT.							

1) The current carrying capacity of the power cables complies with EN 60204-1 for installation type C, for continuous duty at an ambient air temperature of 40 °C (104 °F).

2) With default setting of the pulse frequency.

3) For version with gk 230 terminal box: Cable gland 2 x M32 x 1.5.

4) With the specified power module, the motor cannot be fully utilized with M_0 at $\Delta T = 100$ K winding temperature rise.
If a power module with a higher rating is used, you must check whether the specified power cable can be connected to it.

5) $P_{calc} [kW] = \frac{M_0 [Nm] \times n_{rated}}{9550}$ $P_{calc} [HP] = \frac{M_0 [lb_f-in] \times n_{rated}}{63000}$