

Standard unit

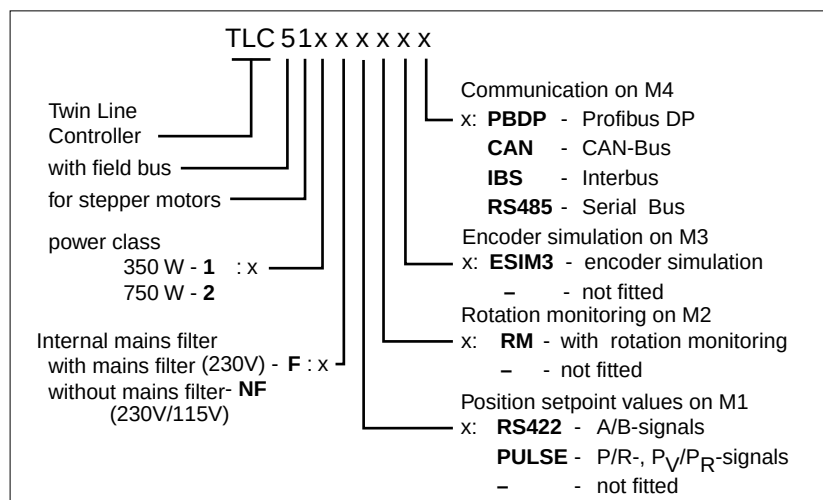


Fig. 1.6 Type code for the standard unit of the positioning controller TLC51x

The ESIM3-C encoder simulation module is only possible in connection with RM-C.

Version P

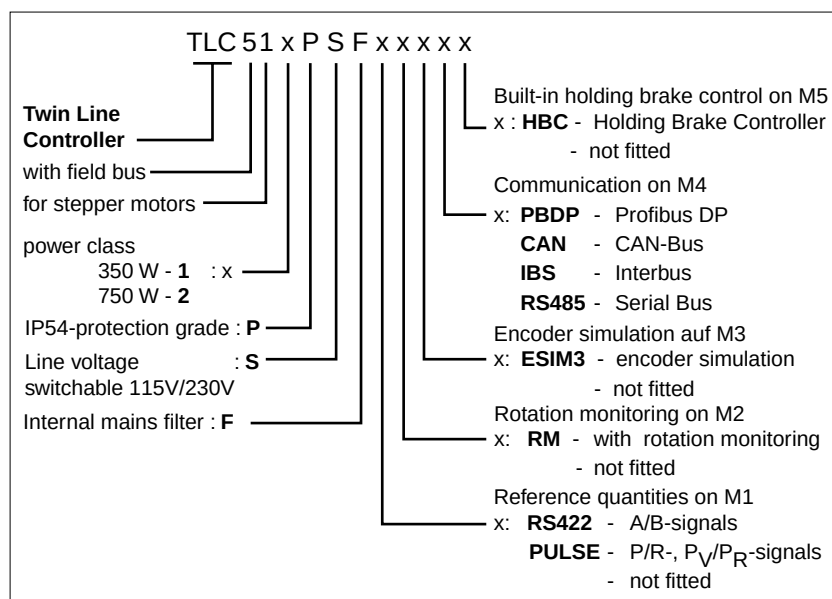


Fig. 1.7 Type code for version P of the positioning controller TLC51x

The ESIM3-C encoder simulation module is only possible in connection with RM-C.

The positioning controller is optionally available with built-in holding brake control.

TL HBC and TL BRC accessories are not suitable for version P, as they only have IP20 protection.

3 Technical data

3.1 Mechanical data

3.1.1 Positioning controller TLC51x

Weight	TLC511, TLC512 with 3 modules	2.7 kg
Device protection	Protection grade to DIN EN 60529: 1991	IP 20

Dimensions		
	TLC511	TLC512
Width [mm]	108	108
Height [mm]	212.5	212.5
Depth [mm]	184.5	184.5
Front width [mm]	105.5	105.5
Connection dimension [mm]	63	63

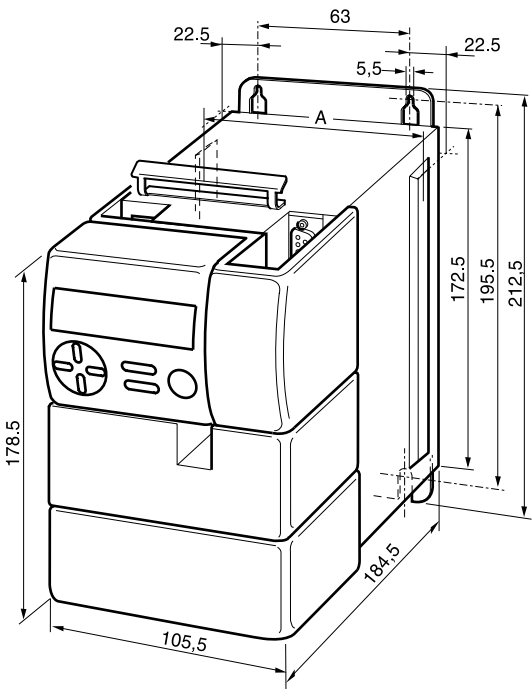


Fig. 3.1 Dimensions TLC511 and TLC512, the HMI manual operating unit illustrated is optional.

3.2 Electronic data

3.2.1 Positioning controller

Line connection

	TLC511/TLC511P	TLC512/TLC512P
Line voltage [V _{AC}]	1 x 230 -20%/+15%	1 x 230 -20%/+15%
only with TLC51xNF:	1 x 115 -20%/+15%	1 x 115 -20%/+15%
Line frequency [Hz]	47 - 63	47 - 63
Current consumption [A]	2 (230 V) 4 (115 V)	5 (230 V) 10 (115 V)
Starting current [A]	< 60	< 60
Power factor cosφ	> 0.6	> 0.6
Power loss [W]	≤ 40	≤ 60
Line buffering [ms]	< 5	< 5
Overvoltage strength (DIN EN 61800-3)	Between phases: 1 kV, phases to ground: 1 kV	
Leakage current ¹⁾ [mA]	< 30	< 30
Fuse, external [A] / characteristics		
at 230 V	10 C, K or similar	10 C, K or similar
at 115 V	10 C, K or similar	10 C, K or similar

1) Leakage currents are measured with an RC circuit in accordance with IEC60990. The value can be higher if measured directly. Notes on using ground leakage circuit-breakers on request.

Motor connection

	TLC511/TLC511P	TLC512/TLC512P
Power class ¹⁾ [kW]	0.35	0.75
Switching frequency [kHz]	16	16
Rated current [A _{rms}]	3	7
Max. speed [rpm]	3000	3000
Cable length ²⁾ [m]	20	20
Cable cross-section [mm ²]	1.5	1.5

1) Max. electrical effective power of the unit at rated current and 115 V_{AC} or 230 V_{AC} line voltage

2) Longer cables on request