

Overview (continued)

Control unit with	High-Standard control	High-Performance control
Output frequency, max.	600 Hz	1400 Hz
Encoder limit frequencies incremental encoder sin/cos 1 V _{pp}	200 kHz	350 kHz ¹⁾
Pulse multiplication factor	128	2048
Max. cable length	50 m (164 ft)	50 m (164 ft)
1FT6/1FK feed motors	■	■
1FN linear motors	–	■
1FW6 torque motors	–	■
1PM/1PH7 main spindle motors	■	■
1FE1/2SP1 built-in spindle motors	■	■
Smooth running		
• Single-axis version	0.2 µm	0.1 µm
• Two-axis version	1.5 µm	0.1 µm
Applications	Standard production machine	Microfinishing and dynamic high-performance machines

Selection and ordering data

Designation	Order No.
High Standard closed-loop control in two-axis version Control unit with digital setpoint interface for 1FT6/1FK/1FE1/2SP1/1PH/1PM motors	6SN11 18-0DM3-0AA0
High Performance closed-loop control in single-axis version Control unit with digital setpoint interface for 1FT6/1FK/1FN/1FE1/2SP1/1PH/1PM/1FW6 motors	6SN11 18-0DJ2-0AA1 0
High Performance closed-loop control in two-axis version Control unit with digital setpoint interface for 1FT6/1FK/1FN/1FE1/2SP1/1PH/1PM/1FW6 motors	6SN11 18-0DK2-0AA 0
<ul style="list-style-type: none"> For motor encoder, without <u>directmeasuring system</u> incremental encoder sin/cos 1 V_{pp} or absolute encoder EnDat For motor encoder incremental encoder sin/cos 1 V_{pp} or absolute encoder with EnDat <u>Direct measuring system</u> incremental encoder sin/cos 1 V_{pp} or absolute encoder with EnDat ²⁾ 	1 3

1) 420 kHz with boundary conditions (see Planning Guide).

2) Suitable for SINUMERIK Safety Integrated.