

System overview

SINAMICS V90 basic servo drive system

Accessories

Connecting cables and connectors for SIMATIC S7 controller

For SINAMICS V90 pulse train (PTI) version

Description	Article No.
Setpoint cable with connector (MDR 50-pin connector, free pins to controller side), length: 1 m	6SL3260-4NA00-1VB0
Setpoint cable with connectors on both sides and separate terminal block (MDR 50-pin connector, terminal block to controller side), length: 0,5 m	6SL3260-4NA00-1VA5
50-pin MDR connector for setpoint cable	6SL3260-2NA00-0VA0

For SINAMICS V90 PROFINET (PN) version

Description	Article No.
I/O cable with 20-pin MDR connector (free pins to controller side), length: 1 m	6SL3260-4MA00-1VB0
Connector for I/O cable, 20-pin	6SL3260-2MA00-0VA0
Pre-assembled PROFINET cable with two RJ45 180° plugs, length: 1 m	6XV1871-5BH10
RJ45 data plug-in connector with 180° (straight) cable outlet	6GK1901-1BB10-2AA0
Standard PROFINET cable, 4-core, sold by the meter, not assembled	6XV1840-2AH10

For further information about PROFINET cables refer to Catalog IK PI or on the Internet at:
www.siemens.com/simatic-net

Requirements for external braking resistor

When the internal braking resistor is not sufficient, select a standard braking resistor according to the table.

Frame size	Resistance Ω	Max. power kW	Rated power W	Max. energy kJ
Line voltage 200 ... 240 V 1 AC/3 AC				
FSA, 0,2 kW	150	1.09	20	0.8
FSB	100	1.64	21	1.23
FSC	50	3.28	62	2.46
FSD, 1 kW	50	3.28	62	2.46
FSD, 1,5 ... 2 kW	25	6.56	123	4.92
Line voltage 380 ... 480 V 3 AC				
FSAA	533	1.2	30	2.4
FSA	160	4	100	8.0
FSB	70	9.1	229	18.3
FSC	27	23.7	1185	189.6

Supplementary system components

Description	Article No.
SINAMICS SD card, 512 MB for SINAMICS V90 400 V version	6SL3054-4AG00-2AA0
Replacement connector kit for SINAMICS V90 400 V version FSAA	6SL3200-0WT00-0AA0
Replacement connector kit for SINAMICS V90 400 V version FSA	6SL3200-0WT01-0AA0
Replacement connector kit for SINAMICS V90 200 V version FSA and FSB	6SL3200-0WT02-0AA0
Replacement connector kit for SINAMICS V90 200 V version FSC and FSD	6SL3200-0WT03-0AA0
Replacement fan for SINAMICS V90 200 V version FSD and 400 V version FSB	6SL3200-0WF00-0AA0
Replacement fan for SINAMICS V90 400 V version FSC	6SL3200-0WF01-0AA0

SINAMICS V90 Starter Kit

Description	Article No.
Starter Kit – SINAMICS V90 with SIMOTICS S-1FL6 Low Inertia	6SL3200-0AE40-0AA0

SINAMICS V90 training case

Description	Article No.
SINAMICS V90 training case 1-axis pulse train (PTI) version consisting of 1 x servo drive SINAMICS V90 pulse train (PTI) version, 1 x servomotor SIMOTICS S-1FL6 Low Inertia and 1 x controller SIMATIC S7-12000	6AG1067-2AA00-0AC0
SINAMICS V90 training case 1-axis pulse train (PTI) version consisting of 1 x servo drive SINAMICS V90 pulse train (PTI) version and 1 x servomotor SIMOTICS S-1FL6 High Inertia	6AG1067-3AA00-0AB0
SINAMICS V90 training case 2-axis PROFINET (PN) version consisting of 2 x servo drive SINAMICS V90 PROFINET (PN) version and 2 x servomotor SIMOTICS S-1FL6 Low Inertia	6AG1067-1AA32-0AA0