



Type Approval Certificate

This is to certify that the undernoted product(s) has/have been tested with satisfactory results in accordance with the relevant requirements of the Lloyd's Register Type Approval System.

Manufacturer	Siemens AG
Address	DI FA SIMATIC Type Test, Werner-von-Siemens-Strasse 50, Amberg, 92224, Germany
Place of Production	Siemens AG Breslauer Straße 5, 90766 Fürth, Germany
Place of Production	Siemens Industrial Automation Products Ltd., Chengdu No 99 Tianyuan Road Hi-tech West, District, Chengdu, 611731, China
Place of Production	Siemens AG Elektronikwerk, Werner-von-Siemens-Strasse 50, Amberg, 92224, Germany
Type	Control Units
Description	Distributed I/O system Refer to the Appendix for further details.
Trade Name	SIMATIC ET200SP
Application	Marine applications for use in environmental categories ENV1, ENV2 and ENV3 as defined in Lloyd's Register Type Approval System, Test Specification

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Number 1 – 2013.

Specified Standard	Manufacturer's specification IACS unified requirements E10 (Rev.8 Feb 2021)
Ratings	Power supply: 24 VDC up to 230 VAC
Additional Tests	Low temperature (-25°C/16 h)
Other Conditions	Surge immunity: External protective circuits required for DC systems (see System Manual A5E03461486 for recommendations). For use on bridge and deck zones the system's power supply lines are to be protected by filter type B84113C (manufactured by Epcos or equivalent: I=3A, C=2x0.47µF+2x4700pF, L=4x4.7mH). Energy meter 6ES7 134 is suitable for installation in general power distribution zone only. Installation of the units as per manufacturer's instruction (A5E03576849). Module 6ES7 132-6BD20-0DA0 (DQ 4x24 VDC / 2A, high speed) fulfils the EMC requirements for installation in general power distribution zones only.

This certificate is not valid for equipment, the design, ratings or operating parameters of which have been varied from the specimen tested. The manufacturer should notify Lloyd's Register EMEA of any modification or changes to the equipment in order to obtain a valid Certificate.

Previous Version: This certificate supersedes certificate number LR2296396TA issued on 11 March 2022 which is hereby cancelled.

The Design Appraisal Document HPC1562116-23/TW and its supplementary Type Approval Terms and Conditions form part of this Certificate.

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Appendix

TYPE

SIMATIC ET200SP

Comprising following modules:

Interface Modules

6ES7 155-6AR00-0AN0	IM155-6PN Basic
6ES7 155-6AU00-ODN0	IM155-6PN HS
6ES7 155-6AU00-OHM0	IM155-6PN R1
6ES7 155-6AU01-0BN0	IM155-6PN ST
6ES7 155-6AU01-0CN0	IM155-6PN/2 HF
6ES7 155-6AU30-0CN0	IM155-6PN/3 HF
6ES7 155-6BU00-0CN0	IM155-6DP HF
6ES7 155-6BA01-0CN0	IM155-6DP HF
6ES7 155-6MU00-0CN0	IM155-6MF HF

Central Processing Units:

6ES7 510-1DJ01-0AB0	CPU 1510SP-1 PN
6ES7 510-1DK03-0AB0	CPU 1510SP-1 PN
6ES7 512-1DK01-0AB0	CPU1512SP-1 PN
6ES7 512-1DM03-0AB0	CPU 1512SP-1 PN
6ES7 677-2DB40-0AA0	CPU1515SP PC2
6ES7 514-2DN03-0AB0	CPU 1514SP-2 PN

Digital Input Modules:

6ES7 131-6BF00-0CA0	DI 8x24V DC HF, PU 1
6ES7 131-6BF00-0DA0	DI 8x24V DC High Speed
6ES7 131-6BF01-0AA0	DI 8x24V DC Basic
6ES7 131-6BF01-0BA0	DI 8x24V DC ST
6ES7 131-6BF61-0AA0	DI 8x24V DC SCR BA
6ES7 131-6BH01-0BA0	DI 16x24V DC ST
6ES7 131-6CF00-0AU0	DI 8x24V AC...48VUC BA
6ES7 131-6FD01-0BB1	DI 4x120...230V AC ST
6ES7 131-6TF00-0CA0	DI 8xNAMUR HF

Digital Output Modules:

6ES7 132-6BD20-0BA0	DQ 4x24V DC/2A ST
6ES7 132-6BD20-0CA0	DQ 4x24V DC/2A HF



6ES7 132-6BD20-0DA0	DQ 4x24V DC/2A High Speed
6ES7 132-6BF00-0CA0	DQ 8x24V DC/0,5A HF
6ES7 132-6BF01-0AA0	DQ 8x24V DC/0,5A Basic
6ES7 132-6BF01-0BA0	DQ 8x24V DC/0,5A ST
6ES7 132-6BF61-0AA0	DQ 8x24VDC/0,5A SINK BA
6ES7 132-6BH00-0AA0	DQ 16x24V DC/0,5A BA
6ES7 132-6BH01-0BA0	DQ 16x24V DC/0,5A ST
6ES7 132-6FD00-0BB1	DQ 4x24...230V AC/2A ST
6ES7 132-6FD00-0CU0	DQ 4x24...230V AC/2A HF

Relay Modules:

6ES7 132-6HC50-0BU0	RQ CO 3x120VDC...230VAC/5A ST
6ES7 132-6HC70-0BU0	RQ Coni 3x120VDC...230VAC/5A ST
6ES7 132-6GD51-0BA0	RQ CO 4x24VDC/2A ST
6ES7 132-6HD01-0BB1	RQ NO 4x120VDC...230VAC/5A
6ES7 132-6MD00-0BB1	RQ Coni 3x120VDC...230VAC/5A ST

Analog Input Modules:

6ES7 134-6FB00-0BA1	AI 2xU ST
6ES7 134-6FF00-0AA1	AI 8xU Basic
6ES7 134-6GB00-0BA1	AI 2xI 2-/4-Wire ST
6ES7 134-6GD01-0BA1	AI 4xI 2-/4-Wire ST
6ES7 134-6GF00-0AA1	AI 8xI 2-/4-Wire Basic
6ES7 134-6HB00-0CA1	AI 2xU/I 2-/4-Wire HF
6ES7 134-6HB00-0DA1	AI 2xU/I 2-/4-Wire HS
6ES7 134-6HD01-0BA1	AI 4xU/I 2-Wire ST
6ES7 134-6JD00-0CA1	AI 4xRTD/TC 2-/3-/4-Wire HF
6ES7 134-6JD00-0DA1	AI 4xTC HS
6ES7 134-6JF00-0CA1	AI 8xRTD/TC 2-Wire HF

Analog Output Modules:

6ES7 135-6FB00-0BA1	AQ 2xU ST
6ES7 135-6GB00-0BA1	AQ 2xI ST
6ES7 135-6HB00-0CA1	AQ 2xU/I HF
6ES7 135-6HB00-0DA1	AQ 2xU/I HS
6ES7 135-6HD00-0BA1	AQ 4xU/I ST
6ES7 135-6TD00-0CA1	AQ 4xI HART HF



Communication Modules:

6ES7 137-6BD00-0BA0	CM 4xIO-Link ST
6ES7 137-6AA01-0BA0	CM PTP
6ES7 137-6CA00-0BU0	CM 1x Dali
6ES7 545-5DA00-0AB0	CM DP

Energy Meter:

6ES7 134-6PA00-0CU0	AI Energy Meter 480V AC/CT HF
6ES7 134-6PA01-0BD0	AI Energy Meter 400V AC ST
6ES7 134-6PA01-0BU0	AI Energy Meter CT ST
6ES7 134-6PA01-0CU0	AI Energy Meter CT HF
6ES7 134-6PA20-0BD0	AI Energy Meter 480V AC ST
6ES7 134-6PA20-0CU0	AI Energy Meter 480V AC/RC HF
6ES7 134-6PA21-0BU0	AI Energy Meter RC ST
6ES7 134-6PA21-0CU0	AI Energy Meter RC HF

Technology Modules:

6ES7 138-6AA01-0BA0	TM Count 1x24V
6ES7 138-6BA01-0BA0	TM Posinput
6ES7 138-6CG00-0BA0	TM Timer DI/DQ 10x24V
6ES7 138-6DB00-0BB1	TM Pulse 2x24V

Bus Adapter:

6ES7 193-6AF00-0AA0	Busadapter BA 2xFC
6ES7 193-6AG00-0AA0	Busadapter BA 2XLC
6ES7 193-6AG20-0AA0	Busadapter BA LC/RJ45
6ES7 193-6AG40-0AA0	Busadapter BA LC/FC
6ES7 193-6AG50-0AA0	Busadapter BA 2xLC-LD
6ES7 193-6AG60-0AA0	Busadapter BA LC-LD/RJ45
6ES7 193-6AG70-0AA0	Busadapter BA LC-LD/M12
6ES7 193-6AM00-0AA0	Busadapter BA 2xM12
6ES7 193-6AP00-0AA0	Busadapter BA 2xSCRJ
6ES7 193-6AP20-0AA0	Busadapter BA SCRJ/RJ45
6ES7 193-6AP40-0AA0	Busadapter BA SCRJ/FC
6ES7 193-6AR00-0AA0	Busadapter BA 2xRJ45
6ES7 193-6AS00-0AA0	Busadapter BA-Send BA1XFC



Base Units:

6ES7 193-6BP00-0BA0	BaseUnit Typ A0, BU15-P16+A0+2B
6ES7 193-6BP00-0BA1	BaseUnit Typ A1, BU15-P16+A0+2B/T
6ES7 193-6BP00-0BD0	BaseUnit Typ D0, BU20-P12+A0+0B
6ES7 193-6BP00-0BU0	BaseUnit Typ U0, BU20-P16+A0+2B
6ES7 193-6BP00-0DA0	BaseUnit Typ A0, BU15-P16+A0+2D
6ES7 193-6BP00-0DA1	BaseUnit Typ A1, BU15-P16+A0+2D/T
6ES7 193-6BP00-0DU0	BaseUnit Typ U0, BU20-P16+A0+2D
6ES7 193-6BP20-0BA0	BaseUnit Typ A0, BU15-P16+A10+2B
6ES7 193-6BP20-0BB0	BaseUnit Typ B0, BU20-P12+A4+0B
6ES7 193-6BP20-0BB1	BaseUnit Typ B1, BU20-P12+A0+4B
6ES7 193-6BP20-0BC1	BaseUnit Typ C1, BU20-P6+A2+4B
6ES7 193-6BP20-0BF0	BaseUnit Typ F0, BU20-P8+A4+0B
6ES7 193-6BP20-0DA0	BaseUnit Typ A0, BU15-P16+A10+2D
6ES7 193-6BP20-0DC0	BaseUnit Typ C0, BU20-P6+A2+4D
6ES7 193-6BP40-0BA1	BaseUnit Typ A1, BU15-P16+A0+12B/T
6ES7 193-6BP40-0DA1	BaseUnit Typ A1, BU15-P16+A0+12D/T
6ES7 193-6BP60-0BA0	BaseUnit Typ A0, 2BU15-P16+A0+2B
6ES7 193-6BP60-0DA0	Base Unit Typ A0, 2BU15-P16+A0+2DB
6ES7 193-6BR00-0HMO	Base Unit Typ M0

6ES7 193-6UP00-0BP1	PotDis-BU Typ P1, dark-colored
6ES7 193-6UP00-0BP2	PotDis-BU Typ P2, dark-colored
6ES7 193-6UP00-0DP1	PotDis-BU Typ P1, light-colored
6ES7 193-6UP00-0DP2	PotDis-BU Typ P2, light-colored

6ES7 193-6TP00-0TNO	PotDis-TB-n-c-G, PU 1
6ES7 193-6TP00-0TP0	PotDis-TB-BR-W, PU 1
6ES7 193-6TP00-0TP1	PotDis-TB-P1-R, PU 1
6ES7 193-6TP00-0TP2	PotDis-TB-P2-B, PU 1

Server Module:

6ES7 193-6PA00-0AA0	Servermodul
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Coupler:

6ES7158-0AD01-0XA0	DP/DP Coupler
6ES7158-3AD10-0XA0	PN/PN Coupler
6ES7158-3MU10-0XA0	PN/MF Coupler