General Specifications

ProSafe-RS
Standards Compliant Models

GS 32P01B60-01EN

■ GENERAL

The hardware components of the ProSafe-RS comply with the standards below.

Functional Safety Standards
IEC 61508, IEC 61511-1, IEC 62061

Programmable Controllers Standards
IEC 61131-2 (*1) (*2) (*3)

Application Standards (*1)
EN 54-2, EN 298 (*3) (*4), EN 50156-1, NFPA85, NFPA86, NFPA72

Safety Standards (*5)

EMC Conformity Standards (*5)

Standards for Hazardous Location Equipment (*5)

Marine Standards (*5)

Environmental Standards
EU Directive of “Restriction of the use of the certain hazardous substances in electrical and electronics equipment (RoHS)”.

*1: A lightning arrester or the like is required to meet this surge immunity standard.
*2: 24 V DC and 48 V DC field power to DI and DO shall not be provided directly from a DC distribution network. The field power supply cable length must be 30 m or less.
*3: Where the system power uses 24 V DC (SPW484), use an external uninterruptible power supply (UPS).
*4: 24 V DC and 48 V DC field power to DI and DO shall not be provided directly from a DC distribution network. The field power supply cable length must be 10 m or less.
*5: Individual Standards numbers and acquisition conditions of Safety Standards, EMC Conformity Standards, Standards for Hazardous Location Equipment and Marine Standards are shown in Table “List of Acquisition Conditions for Conformity Standards” below.

YOKOGAWA

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GS 32P01B60-01EN

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Table List of Acquisition Conditions for Conformity Standards

Category	Standard		Acquisition conditions				
			Except for N-IO Node			N-IO Node (*17)	
			100-120 V AC	220-240 V AC	24 V DC	100-240 V AC	24 V DC
Safety Standards (*1) (*2) (*3)	CSA	CAN/CSA-C22.2 No. 61010-1	X	—	X	X	X
		CAN/CSA-IEC 61010-2-201	X	—	X	X	X
		CAN/CSA-C22.2 No. 61010-2-030 (*11)	X	—	X	X	X
	CE Marking Low Voltage Directive (*6)	EN 61010-1	X	X	X	X	X
		EN 61010-2-201	X	X	X	X	X
		EN 61010-2-030 (*11)	X	X	X	X	X
		EN 60825-1 (*12)	X	X	X	X	X
	EAC Marking	CU TR 004	X	X	X	X	X
EMC Conformity Standards (*2) (*4) (*14)	CE Marking EMC Directive	EN 55011 Class A Group 1 (*13)	X	X	X	X	X
		EN 61000-6-2	X	X	X	X	X
		EN 61000-3-2 (*15)	—	X	—	X (*18)	—
		EN 61000-3-3 (*16)	—	X	—	X (*18)	—
	RCM	EN 55011 Class A Group 1 (*13)	X (*20)	X	X	X	X
	KC Marking	Korea Electromagnetic Conformity Standard	X	X	X	X	X
	EAC Marking	CU TR 020	X	X	X	X	X
	Functional Safety	IEC 61326-3-1	X	X	X	X	X (*19)
Standards for Hazardous Location Equipment (*5)	US (FM) Nonincendive (*7)	Class 3600:2011	X	X	X	X	X
		Class 3611:2004					
		Class 3810:2005					
	Canada (FM) Non-Incendive (*8)	C22.2 No. 213-15	X	—	X	X	X
		CAN/CSA-C22.2 No. 61010-1-12					
		CAN/CSA-IEC 61010-2-201:14					
		CAN/CSA-C22.2 No. 61010-2-030-12					
	ATEX Type “n” (*9)	EN 60079-0:2012+ A11:2013	—	—	X	—	X
		EN 60079-15:2010	—	—	X	—	X
	IECEx Type “n” (*10)	EN 60079-0:2011	—	—	X	—	X
		EN 60079-15:2010					
Marine Standards	ABS (American Bureau of Shiping)		X	X	X	X	X
	BV (Bureau Veritas)		X	X	X	X	X
	LR (Lloyd's Register)		X	X	X	X	X
	DNV GL		X	X	X	X	X

X: Compliant —: Non-compliant

Note: For details on S2NN70D (System model: S2ZN70D), S2NN60D (System model: S2ZN60D), and S2CB60, refer to GS “N-IO field enclosure” (GS 32P06Q10-01EN).

Note: In relation to the CE Marking, the manufacturer and the authorised representative for ProSafe-RS in the EEA are indicated below:
Manufacturer: YOKOGAWA Electric Corporation (2-9-32 Nakacho, Musashino-shi, Tokyo 180-8750, Japan.)
Authorised representative in the EEA: Yokogawa Europe B.V. (Euroweg 2, 3825 HD Amersfoort, The Netherlands.)

*1: For ensuring all the hardware devices to satisfy the safety standards, the dedicated breakers in the power supply distribution board must conform to the following specifications.
[CSA] CSA C22.2 No.5 or UL 489
[CE Marking] EN 60947-1 and EN 60947-3
[EAC Marking] EN 60947-1 and EN 60947-3

*2: For the rack mountable devices, DIN rail montable devices, and wall mountable devices to meet the Safety Standards and EMC Standards, the devices must be installed in a lockable metal cabinet. The cabinet must conform to IEC/EN/CSA 61010-2-201 or provide degrees of protection IP3X or above and IK09 or above.

*3: Measurement inputs of this equipment are applied to Measurement category I for IEC/EN/CSA 61010-1:2001 and O (Other) for IEC/EN/CSA 61010-2-030. For details, see “ProSafe-RS Installation Guidance” (TI 32P01J10-01EN).

*4: 24 V DC and 48 V DC field power to DI and DO shall not be provided directly from a DC distribution network. The field power supply cable length must be 30 m or less.

*5: Regarding ATEX Type i, IECEx Type i and IECEx Type “n”, refer to the GS “Base Plates for Barrier (for N-IO)” (GS 32P06P10-01EN).

*6: When a product is out of the scope of Low Voltage Directive (LVD), the conformity to LVD is not declared. However, the conformity to this standard is secured.

*7: Explosion-proof specification for US (FM) NI:
Class I, Division 2,Groups A, B, C and D Temperature code T4
To meet the standard for hazardous location equipment, 19-inch rack-mounted devices must be installed in a keyed metallic cabinet approved by FM or nonincendive regulator in your area.

*8: Explosion-proof specification for Canada (FM) NI:
Class I, Division 2,Groups A, B, C and D Temperature code T4
To meet the standard for hazardous location equipment, 19-inch rack-mounted devices must be installed in a keyed metallic cabinet approved by CSA or nonincendive regulator in your area.

*9: Explosion-proof specification for ATEX Type “n”:
II 3G Ex nA nC II C T4 Gc X
SSC50☐, SSC57☐, SSC60☐, S2SC70☐, SNB10D, SBD2D, SBD3D, and SBD4D are compliant.
II 3G Ex nA IIC T4 Gc X
The products other than SSC50☐, SSC57☐, SSC60☐, S2SC70☐, SNB10D, SBD2D, SBD3D, SBD4D, S2BN4D, and S2BN5D are compliant.
“Type of Protection” of the below products is indicated together with modules installed in.
SSC50☐, SSC57☐, SSC60☐, SNB10D, and SNT10D.
Compliant if mounted to a cabinet with protection class IP54 or higher.
“X” indicates specific condition of use. To be compatible with Type “n”, for example the requirements of cabinet must be met. For details, refer to the Explosion Protection (TI 32S01J30-01E).

*10: Explosion-proof specification for IECEx Type “n”:
Ex nA IIC T4 Gc
Compliant if mounted to a cabinet with protection class IP54 or higher.

*11: SAI143, SAV144, SAT145, SAR145, and S2MMM843 are in the scope of this standard.

*12: Only SNT401, SNT411, SNT501, SNT511,and S2EN501 (Only optical ESB Bus) are compliant with safety of laser products.

*13: A Class A hardware device is designed for use in the industrial environment. Please use this device in the industrial environment only.

*14: Except for S2NN70D and S2NN60D, A lightning arrester or the like is required to meet this surge immunity standard.

*15: An external device such as a power unit with harmonic current neutralizer and an active harmonics conditioner must be connected to meet this harmonic current emission standard.

*16: The specified limits of voltage drop across wiring must be satisfied to meet this standard.

*17: N-IO Node consists of a node interface unit and N-IO I/O units.

*18: Only the 100-120 V AC power supply specification is not compliant. Only the 200-220 VAC power supply specification is compliant.

*19: Where the system power uses 24 V DC (S2PW504), use an external uninterruptible power supply (UPS).

*20: Only SSC60☐ is compliant.

■ LIST OF CONFORMITY STANDARDS

Conformity standards of each product are shown in Table “List of Conformity Standard”.

Table List of Conformity Standards 1 (1/3)

Model	Safety Standards			EMC Conformity Standards			
	CSA	CE Marking	EAC Marking	CE Marking	RCM	KC Marking	EAC Marking
S2SC70S	X	X	X	X	X	X	X
S2SC70D	X	X	X	X	X	X	X
S2EN402	X	X	X	X	X	X	X
S2EN404	X	X	X	X	X	X	X
S2NN30D	X	X (*1)	X	X (*1)	X	X	X
S2PW503	X	X	X	X	X	X	X
S2PW504	X	X	X	X	X	X	X
S2EN501	X	X	X	X	X	X	X
S2KLF10	X	X	X	X	X	X	X
S2KPB10	X	X	X	X	X	X	X
S2ZN1D	NA	X (*2)	NA	X (*2)	NA	NA	NA
S2MMM843	X	X	X	X	X	X	X
S2MDV843	X	X	X	X	X	X	X
S2BN1D	X	X	X	X	X	NA	X
S2ZN4D	(*3)	(*3)	(*3)	(*3)	(*3)	(*3)	(*3)
S2BN4D	(*3)	(*3)	(*3)	(*3)	(*3)	(*3)	(*3)
S2ZN5D	(*3)	(*3)	(*3)	(*3)	(*3)	(*3)	(*3)
S2BN5D	(*3)	(*3)	(*3)	(*3)	(*3)	(*3)	(*3)
S2ZN70D	(*4)	(*4)	(*4)	(*4)	(*4)	(*4)	(*4)
S2NN70D	(*4)	(*4)	(*4)	(*4)	(*4)	(*4)	(*4)
S2ZN60D	(*4)	(*4)	(*4)	(*4)	(*4)	(*4)	(*4)
S2NN60D	(*4)	(*4)	(*4)	(*4)	(*4)	(*4)	(*4)
S2CB60	(*4)	(*4)	(*4)	(*4)	(*4)	(*4)	(*4)
VI702	NA	NA	NA	X	X	X	X
SSC60S	X	X	X	X	X	X	X
SSC60D	X	X	X	X	X	X	X
SSC50S	X	X	X	X	X	X	X
SSC50D	X	X	X	X	X	X	X
SSC57S	X	X	X	X	X	X	X
SSC57D	X	X	X	X	X	X	X
SNB10D	X	X	X	X	X	X	X
SNT10D	X	X	X	X	X	X	X
SAI143	X	X	X	X	X	X	X
SAV144	X	X	X	X	X	X	X
SAT145	X	X	X	X	X	X	X
SAR145	X	X	X	X	X	X	X
SAI533	X	X	X	X	X	X	X

X: Compliant —: Non-compliant NA: Not Applicable

*1: S2NN30D is compliant to the standard, which includes S2PW503, S2PW504, S2EN501, S2KLF10, and S2KPB10 as its components.
*2: S2ZN1D is compliant to the standard, which includes S2BN1D, S2MMM843, and S2MDV843 as its components.
*3: Refer to the GS “Base Plates for Barrier (for N-IO)” (GS 32P06P10-01EN).
*4: Refer to the GS “N-IO field enclosure” (GS 32P06Q10-01EN).

Table List of Conformity Standards 1 (2/3)

Model	Safety Standards			EMC Conformity Standards			
	CSA	CE Marking	EAC Marking	CE Marking	RCM	KC Marking	EAC Marking
SDV144	X	X	X	X	X	X	X
SCB100	X	X	X	X	X	X	X
SCB110	X	X	X	X	X	X	X
SDV521	X	X	X	X	X	X	X
SDV526	X	X	X	X	X	X	X
SDV531	X	X	X	X	X	X	X
SDV53A	X	X	X	X	X	X	X
SDV541	X	X	X	X	X	X	X
ALR111	X	X	X	X	X	X	X
ALR121	X	X	X	X	X	X	X
ALE111	X	X	X	X	X	X	X
S2LP131	X	X	—	X	X	X	—
SEC402	X	X	X	X	X	X	X
SEC401	X	X	X	X	X	X	X
SNT401	X	X	X	X	X	X	X
SNT501	X	X	X	X	X	X	X
SNT411	X	X	X	X	X	X	X
SNT511	X	X	X	X	X	X	X
SEA4D	X	X	X	X	X	X	X
SED2D	X	X	X	X	X	X	X
SED3D	X	X	X	X	X	X	X
SED4D	X	X	X	X	X	X	X
SWD2D	X	X	X	X	X	X	X
SBT4D	X	X	X	X	X	X	X
SBR4D	X	X	X	X	X	X	X
SBA4D	X	X	X	X	X	X	X
S1BB4D	X	X	—	X	X	NA	—
SBD2D	X	X	X	X	X	X	X
SBD3D	X	X	X	X	X	X	X
SBD4D	X	X	X	X	X	X	X
SRM53D	X	X	X	X	X	X	X
SRM54D	X	X	X	X	X	X	X
SBM54D	X	X	—	X	X	X	—
STA4S	X	X	X	X	X	NA	X
STA4D	X	X	X	X	X	NA	X
STB4S	X	X	X	X	X	NA	X
STB4D	X	X	X	X	X	NA	X
YCB301	X	X	X	X	X	NA	X
KS1	X	X	X	X	X	NA	X
AKB331	X	X	X	X	X	NA	X
AKB651	X	X	X	X	X	NA	X

X: Compliant —: Non-compliant NA: Not Applicable

Table List of Conformity Standards 1 (3/3)

Model	Safety Standards			EMC Conformity Standards			
	CSA	CE Marking	EAC Marking	CE Marking	RCM	KC Marking	EAC Marking
AKB652	X	X	X	X	X	NA	X
AKB611	X	X	X	X	X	NA	X
AKB131	X	X	X	X	X	NA	X
AKB132	X	X	X	X	X	NA	X
AKB135	X	X	X	X	X	NA	X
AKB136	X	X	X	X	X	NA	X
AKB161	X	X	X	X	X	NA	X
AKB162	X	X	X	X	X	NA	X
SCP461	X	X	X	X	X	X	X
SCP451	X	X	X	X	X	X	X
SSB401	X	X	X	X	X	X	X
SPW481	X	X	X	X	X	X	X
SPW482	—	X	X	X	X	X	X
SPW484	X	X	X	X	X	X	X
AIP602	X	X	X	X	X	X	X
SYEPD5D	X	X	X	X	X	X	X
SYEPD4D	X	X	X	X	X	X	X
SYEPD4B	X	X	X	X	X	X	X
SYEPA5D	X	X	X	X	X	X	X
SYEPA4D	X	X	X	X	X	X	X
SYK301	X	X	X	X	X	NA	X
SYK501W	X	X	X	X	X	NA	X
SYK501	X	X	X	X	X	NA	X
SYK101W	X	X	X	X	X	NA	X
SYK101	X	X	X	X	X	NA	X
SYK502	X	X	X	X	X	NA	X
SYPP10	X	X	X	X	X	NA	X

X: Compliant —: Non-compliant NA: Not Applicable

Table List of Conformity Standards 2 (1/3)

Model	Standard for Hazardous Location Equipment (*1)			
	US (FM) Nonincendive	Canada (FM) Non-Incendive	ATEX Type "n"	IECEx Type "n"
S2SC70S	X	—	X	X
S2SC70D	X	—	X	X
S2EN402	X	—	X	X
S2EN404	X	—	X	X
S2NN30D	X	X	X (*2)	X
S2PW503	X	X	—	—
S2PW504	X	X	X	X
S2EN501	X	X	X	X
S2KLF10	NA	NA	NA	NA
S2KPB10	NA	NA	NA	NA
S2ZN1D	NA	NA	X (*3)	NA
S2MMM843	X	X	X	X
S2MDV843	X	X	X	X
S2BN1D	X	X	X	X
S2ZN4D	(*4)	(*4)	(*4)	(*4)
S2BN4D	(*4)	(*4)	(*4)	(*4)
S2ZN5D	(*4)	(*4)	(*4)	(*4)
S2BN5D	(*4)	(*4)	(*4)	(*4)
S2ZN70D	(*5)	(*5)	(*5)	(*5)
S2NN70D	(*5)	(*5)	(*5)	(*5)
S2ZN60D	(*5)	(*5)	(*5)	(*5)
S2NN60D	(*5)	(*5)	(*5)	(*5)
S2CB60	(*5)	(*5)	(*5)	(*5)
VI702	—	—	—	—
SSC60S	X	—	X	—
SSC60D	X	—	X	—
SSC50S	X	—	X	—
SSC50D	X	—	X	—
SSC57S	X	—	X	—
SSC57D	X	—	X	—
SNB10D	X	X	X	X
SNT10D	X	X	X	X
SAI143	X	X	X	—
SAV144	X	X	X	—
SAT145	X	X	X	—
SAR145	X	X	X	—
SAI533	X	X	X	—
SDV144	X	X	X	—
SCB100	NA	NA	NA	NA

X: Compliant —: Non-compliant NA: Not Applicable

*1: For selecting the right products for explosion protection, please refer to TI 32S01J30-01E without fail.
*2: S2NN30D is compliant to the standard, which includes S2PW504, and S2EN501 as its components.
*3: S2ZN1D is compliant to the standard, which includes S2BN1D, S2MMM843, and S2MDV843 as its component.
*4: Refer to the GS "Base Plates for Barrier (for N-IO)" (GS 32P06P10-01EN).
*5: Refer to the GS "N-IO field enclosure" (GS 32P06Q10-01EN).

Table List of Conformity Standards 2 (2/3)

Model	Standard for Hazardous Location Equipment (*1)			
	US (FM) Nonincendive	Canada (FM) Non-Incendive	ATEX Type "n"	IECEx Type "n"
SCB110	NA	NA	NA	NA
SDV521	X	X	X	—
SDV526	—	—	—	—
SDV531	X	X	X	—
SDV53A	X	X	X	—
SDV541	X	X	X	—
ALR111	X	—	X	X
ALR121	X	—	X	X
ALE111	X	—	X	X
S2LP131	X	X	X	X
SEC402	X	—	X	X
SEC401	X	—	X	X
SNT401	X	X	X	X
SNT501	X	X	X	X
SNT411	X	X	X	X
SNT511	X	X	X	X
SEA4D	X	X	X	—
SED2D	X	X	X	—
SED3D	X	X	X	—
SED4D	X	X	X	—
SWD2D	—	—	—	—
SBT4D	X	X	X	—
SBR4D	X	X	X	—
SBA4D	X	X	X	—
S1BB4D	X	X	X	—
SBD2D	X	X	X	—
SBD3D	X	X	X	—
SBD4D	X	X	X	—
SRM53D	—	—	—	—
SRM54D	—	—	—	—
SBM54D	—	—	—	—
STA4S	NA	NA	NA	NA
STA4D	NA	NA	NA	NA
STB4S	NA	NA	NA	NA
STB4D	NA	NA	NA	NA
YCB301	NA	NA	NA	NA
KS1	NA	NA	NA	NA
AKB331	NA	NA	NA	NA
AKB651	NA	NA	NA	NA
AKB652	NA	NA	NA	NA
AKB611	NA	NA	NA	NA
AKB131	NA	NA	NA	NA

X: Compliant —: Non-compliantt NA: Not Applicable

*1: For selecting the right products for explosion protection, please refer to TI 32S01J30-01E without fail.

Table List of Conformity Standards 2 (3/3)

Model	Standard for Hazardous Location Equipment (*1)			
	US (FM) Nonincendive	Canada (FM) Non-Incendive	ATEX Type "n"	IECEx Type "n"
AKB132	NA	NA	NA	NA
AKB135	NA	NA	NA	NA
AKB136	NA	NA	NA	NA
AKB161	NA	NA	NA	NA
AKB162	NA	NA	NA	NA
SCP461	X	—	X	X
SCP451	X	—	X	—
SSB401	X	X	X	X
SPW481	X	X	—	—
SPW482	X	—	—	—
SPW484	X	X	X	X
AIP602	X	—	X	X
SYEPD5D	—	—	—	—
SYEPD4D	—	—	—	—
SYEPD4B	—	—	—	—
SYEPA5D	—	—	—	—
SYEPA4D	—	—	—	—
SYK301	—	—	—	—
SYK501W	—	—	—	—
SYK501	—	—	—	—
SYK101W	—	—	—	—
SYK101	—	—	—	—
SYK502	—	—	—	—
SYPP10	—	—	—	—

X: Compliant —: Non-compliant NA: Not Applicable

*1: For selecting the right products for explosion protection, please refer to TI 32S01J30-01E without fail.

Table List of Conformity Standards 3 (1/3)

Model	Marine Standards			
	ABS (American Bureau of Shipping)	BV (Bureau Veritas)	LR (Lloyd's Register)	DNV GL
S2SC70S (*1)	X	X	X	X
S2SC70D (*1)	X	X	X	X
S2EN402	X	X	X	X
S2EN404	X	X	X	X
S2NN30D (*2) (*3)	X	X	X	X
S2PW503	X	X	X	X
S2PW504	X	X	X	X
S2EN501	X	X	X	X
S2KLF10	X	X	X	X
S2KPB10	X	X	X	X
S2MMM843	X	X	X	X
S2MDV843	X	X	X	X
S2DCV02	X	X	X	X
S2BN1D (*4)	X	X	X	X
S2ZN4D	(*5)	(*5)	(*5)	(*5)
S2BN4D	(*5)	(*5)	(*5)	(*5)
S2ZN5D	(*5)	(*5)	(*5)	(*5)
S2BN5D	(*5)	(*5)	(*5)	(*5)
S2ZN70D	(*6)	(*6)	(*6)	(*6)
S2NN70D	(*6)	(*6)	(*6)	(*6)
S2ZN60D	(*6)	(*6)	(*6)	(*6)
S2NN60D	(*6)	(*6)	(*6)	(*6)
S2CB60	(*6)	(*6)	(*6)	(*6)
VI702	X	X	X	X
SSC60S (*7)	X	X	X	X
SSC60D (*7)	X	X	X	X
SSC50S (*8)	X	X	X	X
SSC50D (*8)	X	X	X	X
SSC57S (*9)	X	X	X	X

X: Compliant —: Non-compliant NA: Not Applicable

*1: S2SC70D-F and S2SC70S-F comply with Marine Standards. S2SC70D-S and S2SC70S-S do not comply with Marine Standards.
S2SC70D and S2SC70S are compliant to the standard, which includes SPW481, SPW482, SPW484, and SCP461 as its components.
*2: S2NN30D is compliant to the standard, which includes S2PW503, S2PW504, S2EN501, S2KLF10, and S2KPB10 as its components.
*3: S2NN30D-□□□0□□□□□ does not comply with Marine Standards.
*4: S2BN1D-0□□□□ does not comply with Marine Standards.
*5: Refer to the GS "Base Plates for Barrier (for N-IO)" (GS 32P06P10-01EN).
*6: Refer to the GS "N-IO field enclosure" (GS 32P06Q10-01EN).
*7: SSC60D-F and SSC60S-F comply with Marine Standards. SSC60D-S and SSC60S-S do not comply with Marine Standards.
SSC60D and SSC60S are compliant to the standard, which includes SPW481, SPW482, SPW484, and SCP461 as its components.
*8: SSC50D-F and SSC50S-F comply with Marine Standards. SSC50D-S and SSC50S-S do not comply with Marine Standards.
SSC50D and SSC50S are compliant to the standard, which includes SPW481, SPW482, SPW484, and SCP451 as its components.
*9: SSC57D-F and SSC57S-F comply with Marine Standards. SSC57D-S and SSC57S-S do not comply with Marine Standards.
SSC57D and SSC57S are compliant to the standard, which includes SPW481, SPW482, SPW484, and SCP451 as its components.

Table List of Conformity Standards 3 (2/3)

Model	Marine Standards			
	ABS (American Bureau of Shipping)	BV (Bureau Veritas)	LR (Lloyd's Register)	DNV GL
SSC57D (*9)	X	X	X	X
SNB10D (*10)	X	X	X	X
SNT10D (*11)	X	X	X	X
SAI143 (*12)	X	X	X	X
SAV144	X	X	X	X
SAT145	X	X	X	X
SAR145	X	X	X	X
SAI533	X	X	X	X
SDV144 (*12)	X	X	X	X
SCB100	X	X	X	X
SCB110	X	X	X	X
SDV521 (*12)	X	X	X	X
SDV526	—	—	—	—
SDV531 (*12) (*13)	X	X	X	X
SDV53A	X	X	X	X
SDV541 (*12)	X	X	X	X
SDCV01	X	X	X	X
ALR111	X	X	X	X
ALR121	X	X	X	X
ALE111	X	X	X	X
S2LP131	X	X	X	X
SEC402	X	X	X	X
SEC401	X	X	X	X
SNT401	X	X	X	X
SNT501	X	X	X	X
SNT411	X	X	X	X
SNT511	X	X	X	X
SEA4D	X	X	X	X
SED2D	X	X	X	X
SED3D	X	X	X	X
SED4D	X	X	X	X
SWD2D	—	—	—	—
SBT4D	X	X	X	X
SBR4D	X	X	X	X
SBA4D	X	X	X	X
S1BB4D	X	X	X	X

X: Compliant —: Non-compliant NA: Not Applicable

*9: SSC57D-F and SSC57S-F comply with Marine Standards. SSC57D-S and SSC57S-S do not comply with Marine Standards.
SSC57D and SSC57S are compliant to the standard, which includes SPW481, SPW482, SPW484, and SCP451 as its components.
*10: SNB10D is compliant to the standard, which includes SPW481, SPW482, SPW484, and SSB401 as its components.
*11: SNT10D is compliant to the standard, which includes SPW481, SPW482, and SPW484 as its components.
*12: SA143-H•C, SDV144-S•C, SDV521-S•C, SDV531-L•C, and SDV541-S•C do not comply with Marine Standards.
*13: SDV531-L style code S3 or later complies with Marine Standards.

Table List of Conformity Standards 3 (3/3)

Model	Marine Standards			
	ABS (American Bureau of Shipping)	BV (Bureau Veritas)	LR (Lloyd's Register)	DNV GL
SBD2D	X	X	X	X
SBD3D	X	X	X	X
SBD4D	X	X	X	X
SRM53D	X	X	X	X
SRM54D	X	X	X	X
SBM54D	X	X	X	X
AVR10D (*14)	X	X	X	X
STA4S	—	—	—	—
STA4D	—	—	—	—
STB4S	—	—	—	—
STB4D	—	—	—	—
YCB301	X	X	X	X
KS1	X	X	X	X
AKB331	X	X	X	X
AKB651	X	X	X	X
AKB652	—	—	—	—
AKB611	X	X	X	X
AKB131	—	—	—	—
AKB132	—	—	—	—
AKB135	—	—	—	—
AKB136	X	X	X	X
AKB161	X	X	X	X
AKB162	—	—	—	—
SCP461	X	X	X	X
SCP451	X	X	X	X
SSB401	X	X	X	X
SPW481	X	X	X	X
SPW482	X	X	X	X
SPW484	X	X	X	X
AIP602	—	—	—	—
SYEPD5D	—	—	—	—
SYEPD4D	—	—	—	—
SYEPD4B	—	—	—	—
SYEPA5D	—	—	—	—
SYEPA4D	—	—	—	—
SYK301	—	—	—	—
SYK501W	—	—	—	—
SYK501	—	—	—	—
SYK101W	—	—	—	—
SYK101	—	—	—	—
SYK502	—	—	—	—
SYPP10	—	—	—	—

X: Compliant —: Non-compliant NA: Not Applicable

*14: AVR10D-□□□□0 does not comply with Marine Standards.

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