Certificate No:
TAA0000362

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Position Controller

with type designation(s)
SIPART PS100, type 6DR71ab-cdefg-hik0-Z jjj

Issued to
Siemens AG
Karlsruhe, **Germany**

is found to comply with
DNV rules for classification – Ships, offshore units, and high speed and light craft

Application :

Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV.

Location classes:

Temperature	**D**
Humidity	**B**
Vibration	**B**
EMC	**B**
Enclosure	**A (IP31), B (IP44 / IP54), C (IP66)**

Issued at **Hamburg** on **2022-08-15**
This Certificate is valid until **2027-08-14**.
DNV local station: **Augsburg**

Approval Engineer: **Dariusz Lesniewski**

for **DNV**

Joannis Papanuskas
Head of Section

This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid.
The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV AS, its parent companies and their subsidiaries as well as their officers, directors and employees ("DNV") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to 300,000 USD.

Product description

Electropneumatic positioner for linear and rotary actuators, model SIPART PS100

		5	6	7		8	9	10	11	12		13	14	15	16		17
Type designation	**6DR7**	**1**	x	x	-	x	x	x	x	x	-	x	x	x	x	**-Z**	xxx

Pos. no.	Characteristic	Code x	Description
6	Lid material	1	Aluminum
7	Actuator	1	Single-acting
		2	Double-acting
8	Type of protection	0	Without explosion protection
		1	Ex i (IS)
		2	Ex i (IS); Ex e (NI)
		3	Ex i (IS); Ex e (NI); Ex t (DIP)
9	Commmunication	A	2-wire, 4...20 mA, HART
		N	2-wire, 4...20 mA
10	Device option 1	A	with Digital Input (DI) and Digital Output (DO)
		N	without device option 1
11	Device option 2	0	without device option 2
		1	with Analog Output (AO), 4...20mA
12	Thread of the lower cable entry / cable gland	0	Thread of the lower cable entry: M20x1.5 / without cable gland
		1	Thread of the lower cable entry: M20x1.5 / with plastic cable gland
		2	Thread of the lower cable entry: M20x1.5 / with metal cable gland
		4	Thread of the lower cable entry: ½"-14 NPT / without cable gland
13	Thread of the upper cable entry / cable gland	0	Thread of the upper cable entry: M20x1.5 / with blanking plug
		1	Thread of the upper cable entry: M20x1.5 / with plastic cable gland
		2	Thread of the upper cable entry: M20x1.5 / with metal cable gland
		4	Thread of the upper cable entry: ½"-14 NPT / without cable gland
14	Pneumatic thread	A	With pneumatic thread G¼"
		B	With pneumatic thread ¼"-18 NPT
15	Pneumatic accessories	A	Without pressure gauge block
		C	With manometer made of plastic, block made of aluminum (IP31)
		D	With manometer made of metal, block made of aluminum (IP44)
		E	With manometer made of stainless steel, block made of aluminum (IP54)
16	Other designs	0	Without other designs
17	Special options	C35	Certificate EN 10204 type 2.1
		S10	Marine approval DNV

Approval conditions

The Type Approval covers hardware listed under Product description. When the hardware is used in applications to be classed by DNV, documentation for the actual application is to be submitted for approval by the manufacturer of the application system in each case. Reference is made to DNV rules for classification of ships Pt.4 Ch.9 Control and monitoring systems.

Application/Limitation

Location class 'C' for enclosure: without pressure gauge block

Type Approval documentation

Tests carried out

Applicable tests according to class guideline DNV-CG-0339, August 2021.

Marking of product

The products to be marked with:
- manufacturer name
- model name
- serial number
- power supply ratings

Periodical assessment

The scope of the periodical assessment is to verify that the conditions stipulated for the type are complied with, and that no alterations are made to the product design or choice of systems, software versions, components and/or materials.

The main elements of the assessment are:

- Ensure that type approved documentation is available
- Inspection of factory samples, selected at random from the production line (where practicable)
- Review of production and inspection routines, including test records from product sample tests and control routines
- Ensuring that systems, software versions, components and/or materials used comply with type approved documents and/or referenced system, software, component and material specifications
- Review of possible changes in design of systems, software versions, components, materials and/or performance, and make sure that such changes do not affect the type approval given
- Ensuring traceability between manufacturer's product type marking and the type approval certificate

Periodical assessment is to be performed after 2 years and after 3.5 years. A renewal assessment will be performed at renewal of the certificate.

END OF CERTIFICATE