SIEMENS

Datasheet for

SIPART PS2 Smart, electropneumatic positioner, 4...20mA, Ex/nEx, single-acting, polycarbonate enclosure, for pneumatic linear and part-turn actuators. Non-contacting (wear-free) position detection (NCS).

Ordering data:	6DR50100EM020AA0
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	General
Manufacturer	Siemens
Supplier	Siemens
Product designation	Electropneumatic positioner
Brand name	SIPART PS2
Type designation	SIPART PS2 Smart, electropneumatic positioner, 420mA, Ex/nEx, single-acting, polycarbonate enclosure, for pneumatic linear and part-turn actuators. Non-contacting (wear-free) position detection (NCS).
Net weight	0.9 kg
Slogan	One that masters everything: SIPART PS2
	Input
Analog input	
Signal range at the analog input	4 20 mA
	Operating conditions
Environmental conditions	
Ambient temperature during operation	-30 °C+80 °C
Degree of protection	
IP rating	IP66
NEMA Enclosure Type	NEMA 4X
lectromagnetic compatibility EMC	
Standard for EMC	The appropriate directives and standards applied, including the relevant versions, can be found in the EC Declaration of Conformity on the Siemer Internet pages.
	Structural Design
lechanical design	
Design of the positioner	single-acting
Rotation angle of the part-turn actuator	30 Degree100 Degree
5 1	
Stroke range of the linear actuator	3 mm130 mm
Stroke range of the linear actuator	
Stroke range of the linear actuator <i>Material</i>	3 mm130 mm
Stroke range of the linear actuator Material Enclosure Material	
Stroke range of the linear actuator Material Enclosure	3 mm130 mm polycarbonat, glass-fiber reinforced (PC) Using mounting kit 6DR4004-8V and where necessary with an additional
Stroke range of the linear actuator Material Enclosure Material Mounting	3 mm130 mm polycarbonat, glass-fiber reinforced (PC) Using mounting kit 6DR4004-8V and where necessary with an additional lever arm 6DR4004-8L on actuators according to IEC 534-6 (NAMUR) with ribs, bars or flat face "Using mounting kit 6DR4004-8D on actuators with mounting plane
Stroke range of the linear actuator Material Enclosure Material Mounting Mounting kit for linear actuator	3 mm130 mm polycarbonat, glass-fiber reinforced (PC) Using mounting kit 6DR4004-8V and where necessary with an additional lever arm 6DR4004-8L on actuators according to IEC 534-6 (NAMUR) wit ribs, bars or flat face "Using mounting kit 6DR4004-8D on actuators with mounting plane according to VDI/VDE 3845 and DIN 3337: The required mounting consol has to be provided on the actuator side; shaft with groove and female
Stroke range of the linear actuator Material Enclosure Material Mounting Mounting kit for linear actuator Mounting kit for part-turn actuator	 3 mm130 mm polycarbonat, glass-fiber reinforced (PC) Using mounting kit 6DR4004-8V and where necessary with an additional lever arm 6DR4004-8L on actuators according to IEC 534-6 (NAMUR) wit ribs, bars or flat face "Using mounting kit 6DR4004-8D on actuators with mounting plane according to VDI/VDE 3845 and DIN 3337: The required mounting consol has to be provided on the actuator side; shaft with groove and female thread M6" With a suitable mounting kit, depending on use as a linear actuator or a
Stroke range of the linear actuator Material Enclosure Material Mounting Mounting kit for linear actuator Mounting kit for part-turn actuator Type of the assembly Design of connection for actuating pressure Electrical connections	 3 mm130 mm polycarbonat, glass-fiber reinforced (PC) Using mounting kit 6DR4004-8V and where necessary with an additional lever arm 6DR4004-8L on actuators according to IEC 534-6 (NAMUR) wit ribs, bars or flat face "Using mounting kit 6DR4004-8D on actuators with mounting plane according to VDI/VDE 3845 and DIN 3337: The required mounting consol has to be provided on the actuator side; shaft with groove and female thread M6" With a suitable mounting kit, depending on use as a linear actuator or a part-turn actuator and process environment 1/4"-18 NPT
Stroke range of the linear actuator Material Enclosure Material Mounting Mounting kit for linear actuator Mounting kit for part-turn actuator Type of the assembly	 3 mm130 mm polycarbonat, glass-fiber reinforced (PC) Using mounting kit 6DR4004-8V and where necessary with an additional lever arm 6DR4004-8L on actuators according to IEC 534-6 (NAMUR) with ribs, bars or flat face "Using mounting kit 6DR4004-8D on actuators with mounting plane according to VDI/VDE 3845 and DIN 3337: The required mounting console has to be provided on the actuator side; shaft with groove and female thread M6" With a suitable mounting kit, depending on use as a linear actuator or a part-turn actuator and process environment

This is only an extract from the technical data. For more details, see the FI 01 catalog or the Industry Mall. *Creation date: 02/02/2025*

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	Power supply		
Type of the auxiliary power supply	pneumatical		
neumatic			
Operating medium	Compressed air, natural gas (purified), Nitrogen		
Operating pressure of the supply air (maximum)	7 bar		
Compressed air purity class for humidity and liquid water	Class 2		
Air consumption	0.01 m³/h		
Certif	ficates and approvals		
EC declaration of conformity	The appropriate directives and standards applied, including the relevant versions, can be found in the EC Declaration of Conformity on the Siemen Internet pages.		
Pressure device category according to PED 97/23/EC	Article 3.3		
Fluid group according to PED 97/23/EG	gas group 1		
eliability (MTBF)			
MTBF	359 a		
Standard for MTBF	SN 29500		
Determination procedure	number of registered failures		
Applicability	positioner		
xplosion protection			
Ex-marking (IECEx & ATEX)	Ex ia IIC T6T4 Gb		
Ex-marking (IECEx & ATEX)	Ex ic IIC T6T4 Gc		
Ex-marking (IECEx & ATEX)	II 2 G Ex ia IIC T6T4 Gb		
Ex-marking (IECEx & ATEX)	II 3 G Ex ic IIC T6T4 Gc		

The information provided in this data sheet contains descriptions or characteristics of performance which in case of actual use do not always apply as described or which may change as a result of further development of the products. An obligation to provide the respective characteristics shall only exist if expressly agreed in the terms of contract. Availability and technical specifications are subject to change without notice.