



SIPLUS S120 BOP20 Basic Operator Panel based on 6SL3055-0AA00-4BA0 with conformal coating, -20...+50 °C, actuator with miniature display 2-line, 6 keys for parameter assignment and diagnostics suitable for Control Units CU305, CU310, CU320

General information	
Product type designation	BOP20
based on	6SL3055-0AA00-4BA0
Product function	
• V/f control with linear/square parameterization capability	No
• V/f control with ECO mode linear/square	No
• V/f control with flux current control	No
• Vector control with encoder	No
• Vector control without encoder	No
Digital inputs	
Number of digital inputs	0
• With fail-safe	0
Analog inputs	
Number of analog inputs	0
Interfaces	
Number of PROFINET interfaces	0
Number of RS 485 interfaces	0
Protocols	
PROFIBUS	No
Degree and class of protection	
IP degree of protection	IP20
Standards, approvals, certificates	
Certificate of suitability	CE
Ambient conditions	
Ambient temperature during operation	
• min.	-20 °C; = Tmin
• max.	70 °C; = Tmax
• min. [°F]	-4 °F
• max. [°F]	158 °F
• Remark	A derating of 3 K/1 000 m has to be applied to the Control Units from an installation altitude of 1 000 m above sea level
Ambient temperature during storage/transportation	
• Storage, min.	-40 °C
• Storage, max.	70 °C
• Storage, min. [°F]	-40 °F
• Storage, max. [°F]	158 °F
Relative humidity	
• With condensation, tested in accordance with IEC 60068-2-38, max.	100 %; RH incl. condensation/frost (no commissioning under condensation conditions)
Resistance	

Use in stationary industrial systems	
— to biologically active substances according to EN 60721-3-3	Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna); Class 3B3 on request
— to chemically active substances according to EN 60721-3-3	Yes; Class 3C4 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *
— to mechanically active substances according to EN 60721-3-3	No

Usage in industrial process technology	
— Against chemically active substances acc. to EN 60654-4	Yes; Class 3 (excluding trichlorethylene)
— Environmental conditions for process, measuring and control systems acc. to ANSI/ISA-71.04	Yes; Level GX group A/B (excluding trichlorethylene; harmful gas concentrations up to the limits of EN 60721-3-3 class 3C4 permissible); level LC3 (salt spray) and level LB3 (oil)

Remark	
— Note regarding classification of environmental conditions acc. to EN 60721, EN 60654-4 and ANSI/ISA-71.04	* The supplied plug covers must remain in place over the unused interfaces during operation!

Conformal coating	
<ul style="list-style-type: none"> • Coatings for printed circuit board assemblies acc. to EN 61086 • Military testing according to MIL-I-46058C, Amendment 7 • Qualification and Performance of Electrical Insulating Compound for Printed Board Assemblies according to IPC-CC-830A 	<p>Yes; Class 2 for high reliability</p> <p>Yes; Discoloration of coating possible during service life</p> <p>Yes; Conformal coating, Class A</p>

connection method

Type of electrical connection for signal line	
<ul style="list-style-type: none"> • Connectable conductor cross-section for signal line, min. • Connectable conductor cross-section for signal line, max. • Connectable conductor cross-section for AWG cables, min. • Connectable conductor cross-section for AWG cables, max. 	<p>0 mm²</p> <p>0 mm²</p> <p>0</p> <p>0</p>

Dimensions

Width	49 mm
Height	48 mm
Depth	8 mm

Weights

Weight (without packaging)	0.05 kg
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Classifications

	Version	Classification
eClass	14	27-02-31-57
eClass	12	27-02-31-57
eClass	9.1	27-02-31-57
eClass	9	27-02-31-92
eClass	8	27-02-31-90
eClass	7.1	27-02-31-90
eClass	6	27-02-31-90
ETIM	10	EC002025
ETIM	9	EC002025
ETIM	8	EC002025
ETIM	7	EC002025
IDEA	4	5109
UNSPSC	15	39-12-20-04

Approvals / Certificates

General Product Approval	EMV
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[Manufacturer Declaration](#)



[China RoHS](#)



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