

MANUFACTURER DOCUMENT PACKAGE

Manufacturer's Manual

Reference package for procurement and maintenance review

SIEMENS

6AV3505-1FB12

TEXT OPERATOR PANEL

Used with the applicable SIMATIC OP5 A2 configuration.

REFERENCE PACKAGE

OFFICIAL DOCUMENT

Selected official manufacturer pages follow this cover.

Source: Siemens exact-article technical data, 6AV3505-1FB12

Technical Data

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OP5		OP15					
A1	A2	A1	A2	A1-VF	A2-VF	C1	C2

Housing		
• External Dimensions BxHxD	120x168x48 mm	240x168x48 mm
• Mounting cutout BxH	112x160 mm	230x158 mm
• Useful depth	Approx. 40 mm	
• Degree of protection (front/rear)	IP65/IP20	
• Weight	Approx. 0.8 kg	Approx. 1.1 kg

Processor	
• Type	V25
• Clock frequency	12 MHz

Memories	
• Flash memory for configuration data	128 KBytes
• SRAM working memory	128 KBytes
• EPROM Firmware	512 KBytes

Display				
• Type	LCD		VF	LCD
• Number of lines	4	2	2	4 (8)
• Characters per line	20	40	40	20 (40)
• Character height	5 mm	5 mm	5 mm	8 (4) mm

OP5		OP15					
A1	A2	A1	A2	A1-VF	A2-VF	C1	C2

Keyboard		
• Type	Membrane keyboard	
• Number of system keys	24	
• Number of LEDs	4	20
• Number of function keys	6	16
• Softkeys	4	8

Supply voltage		
• Rated voltage	24 VDC	
• Permissible range	18 to 30 VDC	
• Maximum permissible transients	35 V (500 ms)	
• Time between transients	min. 50 sec.	
• Power input Typically Maximum	180 mA 250 mA	200 mA 300 mA
• Fuse	internal	

Backup battery ¹	
• Type	Lithium cell
• Voltage	3.6 V
• Capacity	1.5 Ah

1 Subject to change

Authorization input	
• Inhibited	$U < 3.6 \text{ V}$ or open input
• Enabled	$15 \text{ V} < U < 30 \text{ V}$

OP5		OP15					
A1	A2	A1	A2	A1-VF	A2-VF	C1	C2

Ambient Conditions			
- Ambient temperature, operation - Vertical installation - Horizontal installation - Transportation, storage	0° C to 45° C 0° C to 35° C -25° C to 70° C	0° C to 55° C 0° C to 45° C -25° C to 70° C	0° C to 45° C 0° C to 35° C -25° C to 70° C
- Relative humidity - Operation - Transportation, storage	≤ 95%, no condensation ≤ 95%		
- Shock load - Operation - Transportation, storage	5 g/11 msec 25 g/6 msec		
- Vibration - Operation - Transportation, storage	0.075 mm/1 g 3.5 mm/1 g		
Max. pressure difference (front, back)	2 hPa		
- Air pressure - Operation - Transportation, storage	706 to 1030 hPa 581 to 1030 hPa		

Interference Immunity (EN 50082-1)	
Static discharge (contact discharge)	IEC 801-2 class 3
RF irradiation	ENV 50140 class 3
Burst interference	IEC 801-4 class 3
Pulse modulation	ENV 50204

Interference Emission (EN 50081-1)	
RFI suppression level	In accordance with VDE 0878, EN 55022