## **Data sheet**

6AV3688-3EH47-0AX0

SIMATIC HMI KP32F PN, Key Panel, 32 short-stroke keys with multi-colored LEDs, PROFINET interfaces with PROFIsafe, 16 DI+16 DI/DO, 4 safety DI pins, 24 V DC can be looped through parameterizable as of STEP 7 V5.5



Product type designation  Control elements  With parameterizable keys  • Membrane keyboard  — user-definable label membrane keys  • Function keys  — Number of function keys  32  Expansions for operator control of the process  • PD direct LEDs (LED as S7 output I/O)  • Number of color modes for LED  • Direct keys (keys as S7 input I/O)  • Number of color modes for LED  • Direct keys (keys as S7 input I/O)  8; Adjustable brightness  • PD direct LEDs (LED as S7 output I/O)  • Number of color modes for LED  • Direct keys (keys as S7 input I/O)  • No Mounting type  Mounting type  Mounting operation  Rack mounting  No  Front mounting  Wall mounting/direct mounting  Mounting in portrait format possible  Mounting in landscape format possible  Mounting of slots for command devices and signaling units  Supply voltage  Type of supply voltage  Type of supply voltage  Rated value (DC)  permissible range, lower limit (DC)  permissible range, upper limit (DC)  permi	General information	
With parameterizable keys  Keyboard fonts  Membrane keyboard — user-definable label membrane keys Function keys — Number of function keys — Number of short-stroke keys — Number of short-stroke keys — Number of color modes for LED • Direct Lebs (LEDs as S7 output I/O) • Number of color modes for LED • Direct keys (keys as S7 input I/O) 32  Installation type/mounting Mounting type Mounting type Mounting type Mounting position Rack mounting Front mounting Wall mounting/direct mounting Mounting in jandrate format possible Mounting in inardscape format possible maximum permissible angle of inclination without external ventilation. Number of slots for command devices and signaling units  Supply voltage Type of supply voltage Rated value (DC) permissible range, lower limit (DC) permissible range, lower limit (DC) permissible range, lower limit (DC) permissible range, upper limit (DC) perm	Product type designation	KP32F PN
Membrane keyboard	Control elements	
Membrane keyboard — user-definable label membrane keys Function keys — Number of function keys — Number of short-stroke keys — Number of short-stroke keys — Number of short-stroke keys 32  Expansions for operator control of the process  • DP direct LEDs (LEDs as S7 output I/O) • Number of color modes for LED • Direct keys (keys as S7 input I/O) 32  Installation type/mounting  Mounting type Mounting position Front mounting No Front mounting Wall mounting/direct mounting  Mounting in portrait format possible Mounting in Inandscape format possible maximum permissible angle of inclination without external ventilation Number of slots for command devices and signaling units  Supply voltage Type of supply voltage Current Current Current Current consumption (rated value)  • red • yellow  • Yes • yellow	With parameterizable keys	Yes
- user-definable label membrane keys  • Function keys  - Number of function keys  • Short-stroke keys  - Number of short-stroke keys  - Number of short-stroke keys  - Number of color modes for the process  • DP direct LEDs (LEDs as S7 output I/O)  • Number of color modes for LED  • Direct keys (keys as S7 input I/O)  • Number of color modes for LED  • Direct keys (keys as S7 input I/O)  • Number of color modes for LED  • Direct keys (keys as S7 input I/O)  • Number of color modes for LED  • Direct keys (keys as S7 input I/O)  • Number of keys (keys as S7 input I/O)  Rack mounting type  Mounting type  Mounting position  Rack mounting  Pront mounting  Yes  Rail mounting  Wall mounting/direct mounting  No  Mounting in landscape format possible  Mounting in landscape format possible  maximum permissible angle of inclination without external ventilation  Number of slots for command devices and signaling units  Supply voltage  Type of supply voltage  Type of supply voltage  Rated value (DC)  permissible range, lower limit (DC)  permissible range, lower limit (DC)  permissible range, upper limit (DC)  permissib	Keyboard fonts	
• Function keys     — Number of function keys     • Short-stroke keys     — Number of short-stroke keys     — Number of short-stroke keys     32  Expansions for operator control of the process     • DP direct LEDs (LEDs as S7 output I/O)     • Number of color modes for LED     • Direct keys (keys as S7 input I/O)     32  Installation type/mounting  Mounting type     Mounting type     Mounting position     Rack mounting     No     Front mounting     No     Front mounting     No Mounting in portrait format possible     Mounting in portrait format possible     Mounting in landscape format possible     maximum permissible angle of inclination without external ventilation  Number of slots for command devices and signaling units  Supply voltage     Type of supply voltage     • red     • yellow     • yes     • yellow     Yes     • yellow     Yes     • yellow     Yes     *     * yellow     Yes     *     * yellow     Yes     *     * yellow     Yes     * yes     * yes     * yes     * yellow     Yes     * yes     * yes     * yellow     * Yes     * yes     * yellow     * Yes     * yes     * yellow	<ul> <li>Membrane keyboard</li> </ul>	
- Number of function keys  Short-stroke keys  - Number of short-stroke keys  52  Expansions for operator control of the process  • DP direct LEDs (LEDs as S7 output I/O) • Number of color modes for LED • Direct keys (keys as S7 input I/O) • Direct keys (keys as S7 input I/O)  Installation type/mounting  Mounting type  Mounting type  Mounting clip  Mounting position  Rack mounting  No  Rail mounting  Wall mounting/direct mounting  Mounting in portrait format possible  maximum permissible angle of inclination without external ventilation  Number of slots for command devices and signaling units  Supply voltage  Type of supply voltage  Rated value (DC)  permissible range, lower limit (DC)  permissible range, lower limit (DC)  permissible range, lower limit (DC)  permissible range, upper limit (DC)  permissible range,	<ul> <li>user-definable label membrane keys</li> </ul>	Yes
Short-stroke keys  Number of short-stroke keys  Direct LEDs (LEDs as S7 output I/O) Si; Adjustable brightness Direct keys (keys as S7 input I/O) Si; red, green, blue, yellow, white Direct keys (keys as S7 input I/O) Si; red, green, blue, yellow, white Direct keys (keys as S7 input I/O) Si; red, green, blue, yellow, white Si; red, green, blue, yellow,	<ul> <li>Function keys</li> </ul>	
Expansions for operator control of the process  • DP direct LEDs (LEDs as S7 output I/O) • Number of color modes for LED • Direct keys (keys as S7 input I/O) 32  Installation type/mounting  Mounting type Mounting position Rack mounting Front mounting  Wall mounting/direct mounting  Mounting in landscape format possible maximum permissible angle of inclination without external ventilation  Number of slots for command devices and signaling units  Supply voltage  Type of supply voltage  DC  Rated value (DC) permissible range, lower limit (DC) permissible range, upper	<ul> <li>Number of function keys</li> </ul>	32
Expansions for operator control of the process  • DP direct LEDs (LEDs as S7 output I/O) • Number of color modes for LED • Direct keys (keys as S7 input I/O)  1 Installation type/mounting    Mounting type	Short-stroke keys	
DP direct LEDs (LEDs as S7 output I/O)     Number of color modes for LED     Direct keys (keys as S7 input I/O)     S; red, green, blue, yellow, white     Si red, green,	Number of short-stroke keys	32
Number of color modes for LED Direct keys (keys as S7 input I/O) Direct keys (keys as S7 input I/O)  Nounting type Mounting type Mounting position Rack mounting No Front mounting No Wall mounting/direct mounting No Mounting in portrait format possible Mounting in landscape format possible Number of slots for command devices and signaling units  Supply voltage Type of supply voltage Rated value (DC) permissible range, lower limit (DC) permissible range, upper limit (DC) 28.8 V  Input current Current consumption (rated value)  Pres Possible range Possibl	·	
◆ Direct keys (keys as S7 input I/O)  Installation type/mounting  Mounting type  Mounting position  Rack mounting  Front mounting  Rail mounting  Wall mounting/direct mounting  Mounting in portrait format possible  Mounting in portrait format possible  Mounting in landscape format possible  Mounting in landscape format possible  Mounting of slots for command devices and signaling units  Supply voltage  Type of supply voltage  Rated value (DC)  permissible range, lower limit (DC)  permissible range, upper limit (DC)  p		8; Adjustable brightness
Installation type/mounting  Mounting type  Mounting position  Rack mounting  Rack mounting  Yes  Rail mounting  No  Wall mounting/direct mounting  Mounting in portrait format possible  Mounting in landscape format possible  Maximum permissible angle of inclination without external ventilation  Number of slots for command devices and signalling units  Supply voltage  Type of supply voltage  Rated value (DC)  permissible range, lower limit (DC)  permissible range, upper limit (DC)  Input current  Current consumption (rated value)  Type of output  LED colors  • red • yes  Mounting clip  Mounting clip  Mounting clip  Mounting clip  Westrical  Mounting clip  Westrical  No  No  Pes  Sup  Yes  Yes  Yes  Yes  Yes  Yes  Yes  Ye		
Mounting type Mounting position Vertical  Rack mounting No Front mounting Front mounting No Wall mounting/direct mounting Mounting in portrait format possible Mounting in landscape format possible Yes Mounting in landscape format possible Yes Mounting in landscape format possible Yes  Mounting to landscape format possible Yes  Type of slots for command devices and signaling units  DC Rated value (DC) 24 V; 24 V looped through at connector, no interruption on pulling permissible range, lower limit (DC) 28.8 V Input current Current consumption (rated value)  1 A  Type of output  LED colors  • red • yes • yellow Yes		32
Mounting position Rack mounting Rait mounting Rait mounting Wall mounting/direct mounting Mounting in portrait format possible Mounting in landscape format possible Maximum permissible angle of inclination without external ventilation Number of slots for command devices and signaling units  Supply voltage Type of supply voltage Rated value (DC) Permissible range, lower limit (DC) Permissible range, upper limit (DC) Permiss	Installation type/mounting	
Rack mounting Front mounting Yes Rail mounting No Wall mounting/direct mounting No Mounting in portrait format possible Mounting in landscape format possible Tyes To the front/rear Vertilation Number of slots for command devices and signaling units  Supply voltage Type of supply voltage Type of supply voltage Rated value (DC) Permissible range, lower limit (DC) Permissible range, upper limit (DC) Permissible range, upper limit (DC) Type of output  LED colors Fred Supply voltage Tyes Fred Supply voltage Type of output Fred Supply voltage Fred Fred Fred Fred Fred Fred Fred Fre	Mounting type	Mounting clip
Front mounting  Rail mounting  Rail mounting  Wall mounting/direct mounting  No  Mounting in portrait format possible  Mounting in landscape format possible  Maximum permissible angle of inclination without external ventilation  Number of slots for command devices and signaling units  Supply voltage  Type of supply voltage  Rated value (DC)  permissible range, lower limit (DC)  permissible range, upper limit (DC)  permissible range, upper limit (DC)  Input current  Current consumption (rated value)  Type of output  LED colors  • red  • yellow  Yes	Mounting position	vertical
Rail mounting Wall mounting/direct mounting No Mounting in portrait format possible Mounting in landscape format possible Maximum permissible angle of inclination without external ventilation Number of slots for command devices and signalling units  Supply voltage Type of supply voltage  Rated value (DC) permissible range, lower limit (DC) permissible range, upper limit (DC) permissible range, upper limit (DC) 1A  Type of output  LED colors or red yellow Yes  No	Rack mounting	No
Wall mounting/direct mounting  Mounting in portrait format possible  Mounting in landscape format possible  Mounting in landscape format possible  Maximum permissible angle of inclination without external ventilation  Number of slots for command devices and signaling units  Supply voltage  Type of supply voltage  Rated value (DC)  permissible range, lower limit (DC)  permissible range, upper limit (DC)  permissible range, upper limit (DC)  Input current  Current consumption (rated value)  Type of output  LED colors  or red oyellow  Yes  Yes  Yes  Yes	Front mounting	Yes
Mounting in portrait format possible  Mounting in landscape format possible  maximum permissible angle of inclination without external ventilation  Number of slots for command devices and signaling units  Supply voltage  Type of supply voltage  Type of supply voltage  Rated value (DC)  permissible range, lower limit (DC)  permissible range, upper limit (DC)  Input current  Current consumption (rated value)  LED colors  or red oyellow  Yes  Yes  Yes  Yes  Yes		No
Mounting in landscape format possible maximum permissible angle of inclination without external ventilation  Number of slots for command devices and signaling units  Supply voltage  Type of supply voltage  Rated value (DC) permissible range, lower limit (DC) permissible range, upper limit (DC)  Input current  Current consumption (rated value)  Type of output  LED colors  ■ red ■ yellow  Yes  30°; To the front/rear  0  20°; To the front/rear  20°; To the front/rear  0  20°; To the front/rear  20°; To the front/rear		No
maximum permissible angle of inclination without external ventilation  Number of slots for command devices and signaling units  Supply voltage  Type of supply voltage  Rated value (DC)  permissible range, lower limit (DC)  permissible range, upper limit (DC)  Input current  Current consumption (rated value)  Type of output  LED colors  • red • yellow  30°; To the front/rear		Yes
ventilation  Number of slots for command devices and signaling units  Supply voltage  Type of supply voltage  Rated value (DC)  permissible range, lower limit (DC)  permissible range, upper limit (DC)  permissible range, upper limit (DC)  28.8 V  Input current  Current consumption (rated value)  1 A  Type of output  LED colors  • red • yellow  Yes		
Supply voltage Type of supply voltage  Rated value (DC)  permissible range, lower limit (DC)  permissible range, upper limit (DC)  Input current  Current consumption (rated value)  Type of output  LED colors  • red  • yes  • yellow	ventilation	30°; To the front/rear
Type of supply voltage  Rated value (DC)  permissible range, lower limit (DC)  permissible range, upper limit (DC)  Input current  Current consumption (rated value)  LED colors  • red  • yellow  Type of supply voltage  DC  24 V; 24 V looped through at connector, no interruption on pulling  20.4 V  28.8 V  Input current  1 A  Yes  Yes	Number of slots for command devices and signaling units	0
Rated value (DC)  permissible range, lower limit (DC)  permissible range, upper limit (DC)  Input current  Current consumption (rated value)  LED colors  • red  • yellow  Yes	Supply voltage	
permissible range, lower limit (DC)  permissible range, upper limit (DC)  28.8 V  Input current  Current consumption (rated value)  1 A  Type of output  LED colors  • red • yellow  • yellow  Yes	Type of supply voltage	DC
permissible range, upper limit (DC)  Input current  Current consumption (rated value)  Type of output  LED colors  • red • yellow  • yellow  Yes	Rated value (DC)	24 V; 24 V looped through at connector, no interruption on pulling
Input current Current consumption (rated value)  Type of output  LED colors  • red • yellow  Yes	permissible range, lower limit (DC)	20.4 V
Current consumption (rated value)  Type of output  LED colors  • red  • yellow  Yes	permissible range, upper limit (DC)	28.8 V
Type of output  LED colors  • red • yellow  Yes	Input current	
LED colors  • red Yes  • yellow Yes	Current consumption (rated value)	1 A
<ul><li>red</li><li>yellow</li><li>Yes</li></ul>	Type of output	
• yellow Yes	LED colors	
,	• red	Yes
• green Yes	• yellow	Yes
	• green	Yes

• white	Yes
• blue	Yes
Digital inputs	
Number of digital inputs	32; Total inputs and outputs max. 32 and 2x SIL 2 or 4x SIL 3
Input voltage	5-, . Star impacts and suspects max. SE and Ex SIE 2 of TX SIE 0
Rated value (DC)	24 V
Digital outputs	27 V
	4C: May 20 inputs and autoute (tatal)
Number of digital outputs	16; Max. 32 inputs and outputs (total) Yes
Short-circuit protection	Tes
Switching capacity of the outputs	100 mA
with resistive load, max.  Output voltage	100 mA
Output voltage	24 V: Non incloted
Rated value (DC)  Total current of the cutoute	24 V; Non-isolated
Total current of the outputs	100 mA
Current per channel, max.	
Current per group, max.	800 mA
Interfaces	
Number of industrial Ethernet interfaces	2; For the construction of lines and rings without external switch
Number of PROFINET interfaces	2; Incl. switch
Industrial Ethernet	
Industrial Ethernet status LED	2; Per port
Number of ports of the integrated switch	2; Per port
Protocols	
PROFINET	Yes; incl. shared device, 3rd party PLC
Supports protocol for PROFINET IO	Yes
PROFINET CBA	No
IRT	Yes
PROFIsafe	Yes; 2x SIL 3 (two-channel) or 4x SIL 2 (single-channel) emergency stop sensors
PROFIBUS	No
EtherNet/IP	No
MPI	No
AS-Interface	No
EIB/KNX	No
Protocols (Ethernet)	
• TCP/IP	No
Redundancy mode	
Media redundancy	
— MRP	Yes
Further protocols	
AS-Interface Safety at Work	No
• CAN	No
Data-Highway	No
DeviceNet	No
DeviceNet Safety	No
Foundation Fieldbus	No
INTERBUS	No
INTERBUS     INTERBUS-Safety	No
Local Operating Network	No
MODBUS	No
SafetyBUS p	No
• SERCOS	No
• SUCOnet	No
other bus systems	No
· .	INO
Test commissioning functions	Voc. During quitch on
Illuminant test	Yes; During switch on
Key and signal lamp test  EMC	Yes; automatically when switching on
Emission of radio interference acc. to EN 55 011	

<ul> <li>Limit class A, for use in industrial areas</li> </ul>	Yes; Group 1, measured at a distance of 10 m
Limit class A, for use in industrial areas     Limit class B, for use in residential areas	No
Degree and class of protection	110
	IDGE
IP (at the front) IP (rear)	IP65 IP20
	IP20
NEMA (front)	No
Enclosure Type 4 at the front     Find course Type 4x at the front	No
Enclosure Type 4x at the front	Yes; Incl. NEMA12
Standards, approvals, certificates	V.
CE mark	Yes
cULus	Yes
RCM (formerly C-TICK)	Yes
KC approval	Yes
EAC (formerly Gost-R)	Yes
CCC	No; not necessary
Suitable for safety functions	Yes
Use in hazardous areas	
• ATEX Zone 2	No 
• ATEX Zone 22	No 
• cULus Class I Zone 1	No 
• cULus Class I Zone 2, Division 2	No 
FM Class I Division 2	No
Marine approval	
Germanischer Lloyd (GL)	No
<ul> <li>American Bureau of Shipping (ABS)</li> </ul>	No
<ul> <li>Bureau Veritas (BV)</li> </ul>	No
<ul> <li>Det Norske Veritas (DNV)</li> </ul>	No
<ul> <li>Lloyds Register of Shipping (LRS)</li> </ul>	No
<ul> <li>Nippon Kaiji Kyokai (Class NK)</li> </ul>	No
Polski Rejestr Statkow (PRS)	No
Ambient conditions	
Ambient temperature device an exetit	
Ambient temperature during operation	
Ambient temperature during operation     min.	0 °C
min.     max.	0 °C 55 °C
• min.	55 °C
<ul><li>min.</li><li>max.</li><li>Operation (vertical installation)</li><li>— For vertical installation, min.</li></ul>	55 °C 0 °C
<ul> <li>min.</li> <li>max.</li> <li>Operation (vertical installation)</li> <li>— For vertical installation, min.</li> <li>— For vertical installation, max.</li> </ul>	55 °C
<ul> <li>min.</li> <li>max.</li> <li>Operation (vertical installation)</li> <li>— For vertical installation, min.</li> <li>— For vertical installation, max.</li> <li>Operation (max. tilt angle)</li> </ul>	55 °C 0 °C 55 °C
<ul> <li>min.</li> <li>max.</li> <li>Operation (vertical installation)</li> <li>— For vertical installation, min.</li> <li>— For vertical installation, max.</li> <li>Operation (max. tilt angle)</li> <li>— At maximum tilt angle, min.</li> </ul>	55 °C  0 °C  55 °C  0 °C
<ul> <li>min.</li> <li>max.</li> <li>Operation (vertical installation)</li> <li>— For vertical installation, min.</li> <li>— For vertical installation, max.</li> <li>Operation (max. tilt angle)</li> <li>— At maximum tilt angle, min.</li> <li>— At maximum tilt angle, max.</li> </ul>	55 °C 0 °C 55 °C
<ul> <li>min.</li> <li>max.</li> <li>Operation (vertical installation)</li> <li>— For vertical installation, min.</li> <li>— For vertical installation, max.</li> <li>Operation (max. tilt angle)</li> <li>— At maximum tilt angle, min.</li> </ul>	55 °C  0 °C  55 °C  0 °C
<ul> <li>min.</li> <li>max.</li> <li>Operation (vertical installation)</li> <li>— For vertical installation, min.</li> <li>— For vertical installation, max.</li> <li>Operation (max. tilt angle)</li> <li>— At maximum tilt angle, min.</li> <li>— At maximum tilt angle, max.</li> </ul>	55 °C  0 °C 55 °C  0 °C 45 °C  0 °C
<ul> <li>min.</li> <li>max.</li> <li>Operation (vertical installation)</li> <li>— For vertical installation, min.</li> <li>— For vertical installation, max.</li> <li>Operation (max. tilt angle)</li> <li>— At maximum tilt angle, min.</li> <li>— At maximum tilt angle, max.</li> <li>Operation (vertical installation, portrait format)</li> <li>— For vertical installation, min.</li> <li>— For vertical installation, max.</li> </ul>	55 °C  0 °C  55 °C  0 °C  45 °C
<ul> <li>min.</li> <li>max.</li> <li>Operation (vertical installation)</li> <li>— For vertical installation, min.</li> <li>— For vertical installation, max.</li> <li>Operation (max. tilt angle)</li> <li>— At maximum tilt angle, min.</li> <li>— At maximum tilt angle, max.</li> <li>Operation (vertical installation, portrait format)</li> <li>— For vertical installation, min.</li> <li>— For vertical installation, max.</li> <li>Operation (max. tilt angle, portrait format)</li> </ul>	55 °C  0 °C 55 °C  0 °C 45 °C  0 °C
<ul> <li>min.</li> <li>max.</li> <li>Operation (vertical installation)</li> <li>— For vertical installation, min.</li> <li>— For vertical installation, max.</li> <li>Operation (max. tilt angle)</li> <li>— At maximum tilt angle, min.</li> <li>— At maximum tilt angle, max.</li> <li>Operation (vertical installation, portrait format)</li> <li>— For vertical installation, min.</li> <li>— For vertical installation, max.</li> </ul>	55 °C  0 °C 55 °C  0 °C 45 °C  0 °C
<ul> <li>min.</li> <li>max.</li> <li>Operation (vertical installation)</li> <li>— For vertical installation, min.</li> <li>— For vertical installation, max.</li> <li>Operation (max. tilt angle)</li> <li>— At maximum tilt angle, min.</li> <li>— At maximum tilt angle, max.</li> <li>Operation (vertical installation, portrait format)</li> <li>— For vertical installation, min.</li> <li>— For vertical installation, max.</li> <li>Operation (max. tilt angle, portrait format)</li> </ul>	55 °C  0 °C 55 °C  0 °C 45 °C  0 °C 55 °C
<ul> <li>min.</li> <li>max.</li> <li>Operation (vertical installation)</li> <li>— For vertical installation, min.</li> <li>— For vertical installation, max.</li> <li>Operation (max. tilt angle)</li> <li>— At maximum tilt angle, min.</li> <li>— At maximum tilt angle, max.</li> <li>Operation (vertical installation, portrait format)</li> <li>— For vertical installation, min.</li> <li>— For vertical installation, max.</li> <li>Operation (max. tilt angle, portrait format)</li> <li>— At maximum tilt angle, min.</li> </ul>	55 °C  0 °C 55 °C  0 °C 45 °C  0 °C 55 °C
<ul> <li>min.</li> <li>max.</li> <li>Operation (vertical installation) <ul> <li>For vertical installation, min.</li> <li>For vertical installation, max.</li> </ul> </li> <li>Operation (max. tilt angle) <ul> <li>At maximum tilt angle, min.</li> <li>At maximum tilt angle, max.</li> </ul> </li> <li>Operation (vertical installation, portrait format) <ul> <li>For vertical installation, min.</li> <li>For vertical installation, max.</li> </ul> </li> <li>Operation (max. tilt angle, portrait format) <ul> <li>At maximum tilt angle, min.</li> <li>At maximum tilt angle, max.</li> </ul> </li> </ul>	55 °C  0 °C 55 °C  0 °C 45 °C  0 °C 55 °C
<ul> <li>min.</li> <li>max.</li> <li>Operation (vertical installation)</li> <li>— For vertical installation, min.</li> <li>— For vertical installation, max.</li> <li>Operation (max. tilt angle)</li> <li>— At maximum tilt angle, min.</li> <li>— At maximum tilt angle, max.</li> <li>Operation (vertical installation, portrait format)</li> <li>— For vertical installation, min.</li> <li>— For vertical installation, max.</li> <li>Operation (max. tilt angle, portrait format)</li> <li>— At maximum tilt angle, min.</li> <li>— At maximum tilt angle, max.</li> <li>Ambient temperature during storage/transportation</li> </ul>	55 °C  0 °C 55 °C  0 °C 45 °C  0 °C 55 °C
<ul> <li>min.</li> <li>max.</li> <li>Operation (vertical installation)</li> <li>— For vertical installation, min.</li> <li>— For vertical installation, max.</li> <li>Operation (max. tilt angle)</li> <li>— At maximum tilt angle, min.</li> <li>— At maximum tilt angle, max.</li> <li>Operation (vertical installation, portrait format)</li> <li>— For vertical installation, min.</li> <li>— For vertical installation, max.</li> <li>Operation (max. tilt angle, portrait format)</li> <li>— At maximum tilt angle, min.</li> <li>— At maximum tilt angle, max.</li> <li>Ambient temperature during storage/transportation</li> <li>min.</li> </ul>	55 °C  0 °C 55 °C  0 °C 45 °C  0 °C 55 °C  -20 °C
<ul> <li>min.</li> <li>max.</li> <li>Operation (vertical installation)</li> <li>— For vertical installation, min.</li> <li>— For vertical installation, max.</li> <li>Operation (max. tilt angle)</li> <li>— At maximum tilt angle, min.</li> <li>— At maximum tilt angle, max.</li> <li>Operation (vertical installation, portrait format)</li> <li>— For vertical installation, min.</li> <li>— For vertical installation, max.</li> <li>Operation (max. tilt angle, portrait format)</li> <li>— At maximum tilt angle, min.</li> <li>— At maximum tilt angle, max.</li> </ul> Ambient temperature during storage/transportation <ul> <li>min.</li> <li>max.</li> </ul>	55 °C  0 °C 55 °C  0 °C 45 °C  0 °C 55 °C  -20 °C
<ul> <li>min.</li> <li>max.</li> <li>Operation (vertical installation)</li> <li>— For vertical installation, min.</li> <li>— For vertical installation, max.</li> <li>Operation (max. tilt angle)</li> <li>— At maximum tilt angle, min.</li> <li>— At maximum tilt angle, max.</li> <li>Operation (vertical installation, portrait format)</li> <li>— For vertical installation, min.</li> <li>— For vertical installation, max.</li> <li>Operation (max. tilt angle, portrait format)</li> <li>— At maximum tilt angle, min.</li> <li>— At maximum tilt angle, max.</li> <li>Ambient temperature during storage/transportation</li> <li>min.</li> <li>max.</li> <li>Relative humidity</li> </ul>	55 °C  0 °C 55 °C  0 °C 45 °C  0 °C 45 °C  0 °C 55 °C
<ul> <li>min.</li> <li>max.</li> <li>Operation (vertical installation)</li> <li>— For vertical installation, min.</li> <li>— For vertical installation, max.</li> <li>Operation (max. tilt angle)</li> <li>— At maximum tilt angle, min.</li> <li>— At maximum tilt angle, max.</li> <li>Operation (vertical installation, portrait format)</li> <li>— For vertical installation, min.</li> <li>— For vertical installation, max.</li> <li>Operation (max. tilt angle, portrait format)</li> <li>— At maximum tilt angle, min.</li> <li>— At maximum tilt angle, max.</li> <li>Ambient temperature during storage/transportation</li> <li>min.</li> <li>max.</li> <li>Relative humidity</li> <li>Operation, max.</li> </ul>	55 °C  0 °C 55 °C  0 °C 45 °C  0 °C 45 °C  0 °C 55 °C
<ul> <li>min.</li> <li>max.</li> <li>Operation (vertical installation)</li> <li>— For vertical installation, min.</li> <li>— For vertical installation, max.</li> <li>Operation (max. tilt angle)</li> <li>— At maximum tilt angle, min.</li> <li>— At maximum tilt angle, max.</li> <li>Operation (vertical installation, portrait format)</li> <li>— For vertical installation, min.</li> <li>— For vertical installation, max.</li> <li>Operation (max. tilt angle, portrait format)</li> <li>— At maximum tilt angle, min.</li> <li>— At maximum tilt angle, max.</li> <li>Ambient temperature during storage/transportation</li> <li>min.</li> <li>max.</li> <li>Relative humidity</li> <li>Operation, max.</li> <li>configuration / header</li> </ul>	55 °C  0 °C 55 °C  0 °C 45 °C  0 °C 45 °C  0 °C 55 °C
<ul> <li>min.</li> <li>max.</li> <li>Operation (vertical installation)</li> <li>— For vertical installation, min.</li> <li>— For vertical installation, max.</li> <li>Operation (max. tilt angle)</li> <li>— At maximum tilt angle, min.</li> <li>— At maximum tilt angle, max.</li> <li>Operation (vertical installation, portrait format)</li> <li>— For vertical installation, min.</li> <li>— For vertical installation, max.</li> <li>Operation (max. tilt angle, portrait format)</li> <li>— At maximum tilt angle, min.</li> <li>— At maximum tilt angle, max.</li> <li>Ambient temperature during storage/transportation</li> <li>min.</li> <li>max.</li> <li>Relative humidity</li> <li>Operation, max.</li> <li>configuration / header</li> <li>Configuration software</li> </ul>	55 °C  0 °C 55 °C  0 °C 45 °C  0 °C 55 °C  0 °C 55 °C  -20 °C 60 °C  95 %; no condensation
<ul> <li>min.</li> <li>max.</li> <li>Operation (vertical installation) <ul> <li>For vertical installation, min.</li> <li>For vertical installation, max.</li> </ul> </li> <li>Operation (max. tilt angle) <ul> <li>At maximum tilt angle, min.</li> <li>At maximum tilt angle, max.</li> </ul> </li> <li>Operation (vertical installation, portrait format) <ul> <li>For vertical installation, min.</li> <li>For vertical installation, max.</li> </ul> </li> <li>Operation (max. tilt angle, portrait format) <ul> <li>At maximum tilt angle, min.</li> <li>At maximum tilt angle, max.</li> </ul> </li> <li>Ambient temperature during storage/transportation <ul> <li>min.</li> <li>max.</li> </ul> </li> <li>Relative humidity <ul> <li>Operation, max.</li> </ul> </li> <li>Configuration / header</li> </ul> <li>Configuration software <ul> <li>STEP 7 Basic (TIA Portal)</li> <li>STEP 7 Professional (TIA Portal)</li> </ul> </li>	55 °C  0 °C 55 °C  0 °C 45 °C  0 °C 55 °C  0 °C 45 °C  -20 °C 60 °C  95 %; no condensation
<ul> <li>min.</li> <li>max.</li> <li>Operation (vertical installation)</li> <li>— For vertical installation, min.</li> <li>— For vertical installation, max.</li> <li>Operation (max. tilt angle)</li> <li>— At maximum tilt angle, min.</li> <li>— At maximum tilt angle, max.</li> <li>Operation (vertical installation, portrait format)</li> <li>— For vertical installation, min.</li> <li>— For vertical installation, max.</li> <li>Operation (max. tilt angle, portrait format)</li> <li>— At maximum tilt angle, min.</li> <li>— At maximum tilt angle, max.</li> <li>Ambient temperature during storage/transportation</li> <li>• min.</li> <li>• max.</li> <li>Relative humidity</li> <li>• Operation, max.</li> <li>configuration / header</li> <li>Configuration software</li> <li>• STEP 7 Basic (TIA Portal)</li> <li>• STEP 7 Professional (TIA Portal)</li> <li>Functionality under WinCC (TIA Portal)</li> </ul>	55 °C  0 °C 55 °C  0 °C 45 °C  0 °C 55 °C  0 °C 45 °C  -20 °C 60 °C  95 %; no condensation
<ul> <li>min.</li> <li>max.</li> <li>Operation (vertical installation)</li> <li>— For vertical installation, min.</li> <li>— For vertical installation, max.</li> <li>Operation (max. tilt angle)</li> <li>— At maximum tilt angle, min.</li> <li>— At maximum tilt angle, max.</li> <li>Operation (vertical installation, portrait format)</li> <li>— For vertical installation, min.</li> <li>— For vertical installation, max.</li> <li>Operation (max. tilt angle, portrait format)</li> <li>— At maximum tilt angle, min.</li> <li>— At maximum tilt angle, max.</li> <li>Ambient temperature during storage/transportation</li> <li>• min.</li> <li>• max.</li> <li>Relative humidity</li> <li>• Operation, max.</li> <li>configuration / header</li> <li>Configuration software</li> <li>• STEP 7 Basic (TIA Portal)</li> <li>• STEP 7 Professional (TIA Portal)</li> <li>Functionality under WinCC (TIA Portal)</li> <li>Process coupling</li> </ul>	55 °C  0 °C 55 °C  0 °C 45 °C  0 °C 55 °C  0 °C 45 °C  0 °C 55 °C  95 °C  0 °C 45 °C  720 °C 60 °C  95 %; no condensation
<ul> <li>min.</li> <li>max.</li> <li>Operation (vertical installation)</li> <li>— For vertical installation, min.</li> <li>— For vertical installation, max.</li> <li>Operation (max. tilt angle)</li> <li>— At maximum tilt angle, min.</li> <li>— At maximum tilt angle, max.</li> <li>Operation (vertical installation, portrait format)</li> <li>— For vertical installation, min.</li> <li>— For vertical installation, max.</li> <li>Operation (max. tilt angle, portrait format)</li> <li>— At maximum tilt angle, min.</li> <li>— At maximum tilt angle, max.</li> <li>Ambient temperature during storage/transportation</li> <li>• min.</li> <li>• max.</li> <li>Relative humidity</li> <li>• Operation, max.</li> <li>configuration / header</li> <li>Configuration software</li> <li>• STEP 7 Basic (TIA Portal)</li> <li>• STEP 7 Professional (TIA Portal)</li> <li>Functionality under WinCC (TIA Portal)</li> </ul>	55 °C  0 °C 55 °C  0 °C 45 °C  0 °C 55 °C  0 °C 45 °C  -20 °C 60 °C  95 %; no condensation

• S7-200	No
• S7-300/400	Yes; with F-CPU: STEP 7 V11 SP1 or higher and Safety V11 (or higher), without F-CPU STEP 7 or SIMATIC STEP 7 Basic V11 (or higher)
• LOGO!	No
WinAC	Yes
SINUMERIK	No
• SIMOTION	No
<ul> <li>Allen Bradley (EtherNet/IP)</li> </ul>	No
Allen Bradley (DF1)	No
Mitsubishi (MC TCP/IP)	No
<ul><li>Mitsubishi (FX)</li></ul>	No
OMRON (FINS TCP)	No
<ul> <li>OMRON (LINK/Multilink)</li> </ul>	No
<ul> <li>Modicon (Modbus TCP/IP)</li> </ul>	No
<ul><li>Modicon (Modbus)</li></ul>	No
Mechanics/material	
Enclosure material (front)	
Plastic	No
Aluminum	Yes
Stainless steel	No
Service life	
<ul> <li>Short-stroke keys (in switching cycles)</li> </ul>	1 500 000
LEDs (ON period)	100 %
Dimensions	
Width of the housing front	295 mm
Height of housing front	155 mm
Mounting cutout, width	277 mm; Max. thickness of mounting plate 2 - 6 mm
Mounting cutout, height	137 mm
Overall depth	69 mm; Incl. angled SIMATIC Ethernet connector
Weights	
Weight (without packaging)	1 220 g

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