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SIMATIC HMI KP8/KP8F/KP32F

Overview



P_ST80_XX_01757
Key Panel, blank front, at the front, populated



P_ST80_XX_01755
Key Panel, blank front, at the back, not populated





P ST80 XX 03748

SIMATIC HMI KP8 PN LX, 8 short-stroke keys, long, 1-6 mm sheet thickness, PN interfaces, black neutral design, 8 configurable DI/DQ pins

SIMATIC HMI Key Panels

- Optimum operability thanks to large mechanical keys and multi-colored LED backlighting (daylight readable)
- · Over 60% time savings for wiring and installation (Plug&Play)
- More than 30% savings in material costs compared to conventional keypad operator panels
- 2 PROFINET ports (incl. switch) already integrated for setting up line and ring topologies
- · Freely configurable digital I/Os on the rear for connecting key-operated switches, indicator lights, etc.
- Connection of fail-safe emergency stop buttons or other fail-safe signals with KP8F and KP32F (in SIL2 or SIL3)
- Functionally compatible with all standard PROFINET master CPUs, also non-Siemens
- . KP8 PN LX is suitable for direct installation next to monitors
- KP8 and blank front design, also optimized for installation in IPC Extension Units in IP65
- Maximum flexibility due to parameterization
- · Blank front design for standardized assembly of flexible operator panels
- · Installation enclosure, fully-enclosed IP65, no drilling or milling necessary, KP8(F) not included;
- for accessories see technical specifications for installation enclosure

Benefits

- · Less planning and assembly work than in the case of discrete components, thanks to the modular design
- · Savings in hardware costs: Distributed I/O, 2 PROFINET connections and I/Os are combined in one device
- · Keys and lamps can be labeled in IP65 using a standard printer (black and white or color)
- · High flexibility due to freely configurable colors, switch/button function and integrated diagnostics function
- · Any key color can be adapted dynamically to the process
- · Integrated standard inputs and outputs for actuators and sensors, and each pin can be used as input or output
- · Blank front design can be used to reserve space for later system extensions and for easy mounting of standard 22.5 mm
- · Functions and design are optimally matched in the SIMATIC HMI spectrum, e.g. in PRO device Extension Units
- · SIL 2/3 safety with the "F" variants, e.g. EMERGENCY STOP can be connected directly

http://support.automation.siemens.com/WW/view/en/56652789

Application

- · Ideally suited to most verticals (automotive, F&B to oil & gas) thanks to the smooth and rugged front, even in hazardous areas (see technical specifications)
- · For intuitive, fast and very easy operation with minimum wiring
- · Language-neutral feedback with multi-color LEDs in the keys, even readable in sunlight
- · Extensions possible when built-in, without the need for cutting tools
- · Special-purpose machine manufacturing benefits from the high degree of flexibility

Design

SIMATIC HMI Key Panel – Blank front design

- · Simple seamless installation with mounting clips
- · Rugged design, suitable for harsh industrial environments
- · Prepared for installation of 22.5 mm standard components
- Easy installation, or retrofitting during operation, of standard 22.5 mm operator controls
- IP65 installation enclosure for KP8(F); 22.5 mm operator controls partially included

SIMATIC HMI Key Panel - Basic functions

- . Smooth front, therefore easy to clean
- · Large mechanical illuminated pushbutton units can be programmed as switches or buttons
- Loop-through 24 V DC power supply, no additional terminals required
- Two PROFINET interfaces, perfect for line operation
- · Suitable for ring operation thanks to media redundancy protocol (MRP), normal running even when the PROFINET power supply cable is unplugged
- . Inputs and outputs on the rear, each pin can be used as an input or an output
- . The F variants are also equipped with SIL 2/3 inputs

SIMATIC HMI KP8 PN

- 8 large mechanical illuminated pushbuttons with extremely good tactile feedback, thus also suitable for harsh industrial
- 8 freely configurable digital I/Os
- · For standard CPUs

SIMATIC HMI KP8 PN LX

- 8 large mechanical illuminated pushbuttons with extremely good tactile feedback, thus also suitable for industrial
- Flexible installation • 8 freely configurable digital I/Os
- For standard CPUs
- 1-to-1 configuring compatible to SIMATIC HMI KP8 PN SIMATIC HMI KP8F PN

For fail-safe CPUs

• Additional digital fail-safe inputs for connecting single-channel or 1 x 2-channel sensors, such as emergency stop

SIMATIC HMI KP32F PN

- · 32 large mechanical illuminated pushbuttons with extremely good tactile feedback, thus also suitable for harsh industrial
- · 16 freely configurable digital I/Os
- Additional digital fail-safe inputs for connecting 4 x 1-channel or 2 x 2-channel sensors, such as emergency stop
- · For fail-safe and standard CPUs

Demo case

SIMATIC HMI Key Panel - low-cost demo and experiment case.

The case consists of a KP8 PN with a 1211C CPU including demo program, set on a small plexiglas stand ready for use.

- Content:
- 1x case
- 1x KP8 PN
- 1x CPU1211C
- 1x stand, permanently wired, including program
- Power supply possible with a standard laptop power supply unit (not included in scope of supply)
- Prices and delivery times are available on request

Can be ordered by fax:

Siemens AG, Mr. Michael Christ Industry Sector, I IA CE SE MF RS FDS

Würzburger Str. 121, 90766 Fürth, Germany

Tel.: +49 911 750-4128 / Fax: +49 911 750-2411

Technical specifications

Article number	6AV3688-3AY36-UAXU	6AV2127-1AB00-0LX1
	SIMATIC HMI KP8 PN	SIMATIC HMI KP8 PN LX 6mm
General information	·	·
Product type designation	KP8 PN	Key Panel KP8 PN LX (1 6 mm)
Control elements	·	
With parameterizable keys	Yes	Yes
Keyboard fonts	·	
Membrane keyboard		
user-definable label membrane keys	Yes	No; possible via adjacent display

8; Adjustable brightness

5; red, green, blue, yellow, white

CAMOCOO DAMOC DAMO

CAVO407 4 A DOO OL V4

with L-pattern at key edge

8: 19 x 19 mm per button

8; Adjustable brightness

5; red, green, blue, yellow, white

clamp fastening with additional mounting clips

Yes; mounting clip - Torx T20 tighten to 0.2 Nm; enclosure - Torx

24 V; 24 V can be looped through connector, interrupted when pulled

Horizontal, vertical

T10 tighten to 0.2 Nm

No

No

Yes

0

20.4 V

28.8 V

0.3 A

24 V

24 V; Non-isolated

2; For the construction of lines and

rings without external switch

100 mA

800 mA

2: Incl. switch

2; Per port

2; Per port

- user-definable label membrane keys
- Function keys
- Number of function keys
- Short-stroke keys
- Number of short-stroke keys
- 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)
- Installation type/mounting
- Mounting type

Mounting position

Rack mounting

Front mounting

Rail mounting

units

- vertical

8

8

No Yes; Compatible with Extension

Clamp terminals

Yes

- 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 signaling 0
- Supply voltage
- Type of supply voltage Rated value (DC)
 - 24 V; 24 V looped through at connector, no interruption on pulling 20.4 V
- permissible range, lower limit (DC) 28.8 V permissible range, upper limit (DC) Input current
- Current consumption (rated value) 0.3 A Digital inputs
- Number of digital inputs 8; Max. 8 inputs and outputs (total) 8; Max. 8 inputs and outputs (total) Input voltage
 - 24 V • Rated value (DC)
- **Digital outputs** Number of digital outputs 8; Max. 8 inputs and outputs (total) 8; Max. 8 inputs and outputs (total) Short-circuit protection

24 V; Non-isolated

100 mA

800 mA

2: Incl. switch

2; Per port

2; Per port

- Switching capacity of the outputs · with resistive load, max.
 - 100 mA 100 mA

2; For the construction of lines and

rings without external switch

- Rated value (DC) Total current of the outputs
 - · Current per channel, max
- Current per group, max
- Interfaces
- Number of industrial Ethernet interfaces
- Number of PROFINET interfaces
- Industrial Ethernet

Output voltage

- Industrial Ethernet status LED

- . Number of ports of the integrated switch

Protocols	Voc. also 2rd north DLC	Voc. also 3rd party DLC
PROFINET Article number	Yes; also 3rd party PLC 6AV3688-3AY36-0AX0	Yes; also 3rd party PLC 6AV2127-1AB00-0LX1
	SIMATIC HMI KP8 PN	SIMATIC HMI KP8 PN LX 6mm
Supports protocol for PROFINET IO PROFINET CBA	Yes	Yes
PROFINET CBA IRT	No Yes	No Yes
PROFISATE PROFIBLIS	No No	No No
PROFIBUS EtherNet/IP	No No	No No
MPI	No	No
AS-Interface EIB/KNX	No No	No No
Protocols (Ethernet)	<u></u>	. ·-
• TCP/IP	No	No
Redundancy mode		<u>—</u> ——
Media redundancy — MRP	Yes	Yes
Further protocols		
AS-Interface Safety at Work	No	No
• CAN	No	No
Data-Highway	No	No
DeviceNet	No	No
DeviceNet Safety	No	No No
Foundation Fieldbus	No	No No
• INTERBUS	No No	No No
INTERBUS-Safety	No No	No No
Local Operating Network	No No	No No
MODBUS Seferables a	No No	No No
SafetyBUS p SERCOS	No No	No No
• SERCOS	No No	No No
SUCOnet other hus systems	No No	No No
other bus systems Test commissioning functions		-
Illuminant test	Yes; During switch on	Yes; During switch on
Key and signal lamp test	Yes; automatically when switching on	Yes; automatically when switching on
EMC		
Emission of radio interference acc. to EN 55 011	Yes; Group 1, measured at a	Yes; Group 1, measured at a
Limit class A, for use in industrial areas	distance of 10 m	distance of 10 m
Limit class B, for use in residential areas	No .	No
Degree and class of protection IP (at the front)	IP65	IP64
IP (rear)	IP20	IP20
NEMA (front)	No	No
Enclosure Type 4 at the front Finclosure Type 4x at the front	Yes; Incl. NEMA12	No
Enclosure Type 4x at the front Enclosure Type 12 at the front	: ::=	No
Enclosure Type 12 at the front Standards, approvals, certificates		<u>. </u>
CE mark	Yes	Yes
CSA approval UL approval		No No
cULus	Yes	No
FM approval RCM (formerly C-TICK)	Yes	No No
KC approval	Yes	No No
EAC (formerly Gost-R)		No
CCC Suitable for safety functions	No	No; not necessary No
Marine approval		No
Use in hazardous areas • ATFX Zone 2	Yes	No
ATEX Zone 2 ATEX Zone 22	Yes	No
ATEX Zone 22 cULus Class I Zone 1	No	No
cULus Class I Zone 1 cULus Class I Zone 2, Division 2	Yes	No
CULus Class I Zone 2, Division 2 FM Class I Division 2	Yes	No
Marine approval		-
Germanischer Lloyd (GL)	No	No
American Bureau of Shipping (ABS)	No	No
Bureau Veritas (BV)	No	No
Det Norske Veritas (DNV)	No	No
• Lloyds Register of Shipping (LRS)	No	No
Nippon Kaiji Kyokai (Class NK)	No	No
Polski Rejestr Statkow (PRS)	No	No
Ambient conditions Ambient temperature during operation	· —	_
min.	0 °C	0 °C
• max.	55 °C	60 °C
Operation (vertical installation)		
— For vertical installation, min.	0 °C	0 °C
— For vertical installation, max.	55 °C	60 °C
Operation (max. tilt angle) — At maximum tilt angle min	0 °C	0 °C
— At maximum tilt angle, min.	15.00	-00.00

Article number - For vertical installation, min For vertical installation For vertical ins	— At maximum tilt angle, max.	45 °C		60 °C
For vertical installation, mix. 0°C	Operation (vertical installation, portrait format)			
For vertical installation, max. 55 °C 60 °C	Article number			
Committed to maple, portrait formati)	— For vertical installation, min.	0 °C		0 °C
At maximum tit angle, max.	— For vertical installation, max.	55 °C		60 °C
— Al maximum till angle, max. 45°C	Operation (max. tilt angle, portrait format)	0.00		0.00
Anabent Imperentation in Imperentation (1997) - In in	-			
Storage Part				
# miss. # miss. # potention, max. # operation, m	storage/transportation	20.00		00 00
Relative humidity				
• Operation, masc configuration on Abacter configuration / header configuration on Abacter configuration of Abacter config				10 0
STEP Pasie (TIA Portal)	•	95 %; no condensation	on	95 %; no condensation
• STEP 7 Pasic (TIA Portal) - STEP 7 Professional (TIA Portal) - STEP 7 Professional (TIA Portal) - STEP 7 Professional (TIA Portal) - ST-1500 - ST-15000 - ST-15000 - ST-15000 - ST-15000 - ST-150000 - ST-150000 - ST-150000 - ST-150000 - ST-150000 - ST-1500000 - ST-1500000 - ST-1500000 - ST-15000000000000000000000000000000000000	configuration / header			
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Functionality under WinCC (TIA Portal) Process coupling - \$7-1200 - \$7-300 - \$7-300 - \$7-300 - \$7-300 - \$7-300 - \$7-300 - \$7-300 - \$7-300 - \$7-300 - \$7-300 - \$7-300 - \$7-300 - \$7-30000 - \$7-30000 - \$7-30000 - \$7-30000 - \$7-30000 - \$7-30000 - \$7-30000 - \$7-300000 - \$7-300000 - \$7-300000 - \$7-300000 - \$7-300000 - \$7-300000 - \$7-300000 - \$7-300000 - \$7-300000 - \$7-300000 - \$7-3000000 - \$7-3000000 - \$7-3000000 - \$7-3000000 - \$7-3000000000000000000000000000000000000	, ,			
Process coupling	, ,			
1-37-1500	Process coupling			
• 57-200	• S7-1200		CPU and ET	
**S7-300/400 Yes: STEP 7 or SIMATIC STEP 7 See with F-CPU STEP 7 yes with F-CPU STEP 7 yes yes yes last o'Y1 or higher of silikatic STEP 7 Basic Y11 or higher of silikatic STEP 7 Basic Y12 or high Y12 or higher of silikatic STEP 7 Basic Y12 or higher Y12 or higher of silikatic STEP 7 Basic Y12 or higher of silikatic STEP 7 Basic Y12 or higher Y	• S7-1500	Yes		Yes
LOGOI No	• S7-200	No		No
■ LOGO! ■ WinAC ■ WinAC ■ WinAC ■ SINUMERIK ■ SINUMERIK ■ SINOTION ■ Allen Bradley (Ethenkel/IP) ■ No ■ No ■ No ■ No ■ Mitsubishi (MC TCPIIP) ■ No ■ More No ■ No ■ No ■ No ■ More No ■ More No ■ No ■ No ■ More No ■ No	• S7-300/400		TIC STEP 7	(or higher) and Safety V11 (or higher) or SIMATIC STEP 7 Basic
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Allen Bradley (DF1) No No Missubishi (MC TCP/IP) No Missubishi (KC) No OMRON (FINS TCP) No OMRON (LINK/Multilink) No No No OMRON (LINK/Multilink) No Starliness steel No	• SIMOTION	No		No
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Modicon (Modbus TCP/P) Modicon (Modbus TCP/P) Modicon (Modbus) No No Mochanics/material Enclosure material (front) Plastic Plastic Plastic Plastic Plastic Plastic No	, ,			
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Bayblend FR3010 enclosure, Autotex F150 front membrane	,			
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Plastic Aluminum No No No Stainless steel No No No Starvice life Short-stroke keys (in switching cycles) LEDs (ON period) No	Enclosure material (front)			
• Aluminum No No No No Stainless steel No No No Service life • Short-stroke keys (in switching cycles) 1 500 000 1 500 000 • LEDS (ON period) 100 %	Plastic	Yes		Yes; neutral enclosure, black RAL
Service life Short-stroke keys (in switching cycles) LEDs (ON period) 100 %	Aluminum	No		
Short-stroke keys (in switching cycles) LEDs (ON period) 100 % 100 % 100 % 100 % 100 % 100 % Width of the housing front Height of housing front 155 mm 155 mm 252.4 mm 252.4 mm 252.4 mm 24 mm; tolerances +0.5 mm, not including connection plug (depending on connector type) Mounting cutout, width 129.7 mm Mounting cutout, height 129.7 mm 124 mm; tolerances +0.5 mm, not including connection plug (depending on connector type) Weight (without packaging) Weight (without packaging) Weight (with packaging) Weight (with packaging) Other Merchandise Manufacturer name Manufacturer and Manufacturer's address Note: Article number 6AV3688-3AY36-0AX0 Key Panel, compatible with GAV2127-1AB00-0LX0 Article number Foduct type designation Control elements With parameterizable keys Wes Nembrane keyboard — user-definable label membrane keys Function keys — Number of function keys • Short-stroke keys	Stainless steel	No		No
LEDS (ON period) LEDS (ON period) Dimensions Width of the housing front Height of housing front Hounting cutout, width Server of mounting plate 2 - 6 mm Mounting cutout, width For 7,7 mm; Max. thickness of mounting plate 2 - 6 mm (depending on connector type) Hounting cutout, height Legard on mounting plate 2 - 6 mm (depending on connector type) A9 mm; Incl. angled SIMATIC Ethernet connector Weights Weight (without packaging) Weight (without packaging) Weight (without packaging) Weight (with packaging) Wei	Service life	-		
Dimensions Width of the housing front 155 mm 252.4 mm Height of housing front 155 mm 252.4 mm Mounting cutout, width 67.7 mm; Max. thickness of 24 mm; tolerances +0.5 mm, not including connection plug (depending on connector type) Mounting cutout, height 129.7 mm 244 mm; tolerances +0.5 mm, not including connection plug (depending on connector type) Wought (depending on connector type) Weight (without packaging) 270 g 297 g 297 g 475 g; incl. 1x 12-pole connector and 6x mounting clips Weight (with packaging) 270 g 297 g 475 g; incl. 1x 12-pole connector and 6x mounting clips Other Service of the Manufacturer name Manufacturer name Manufacturer saddress (Vogtand), Germany Note: Key Panel must be configured as 6x/3688-3AY36-0AX0 Key Panel compatible with 6AV2127-1AB00-0LX0 Article number 6AV3688-3AY36-0AX0 Key Panel compatible with 6AV2127-1AB00-0LX0 With parameterizable keys Yes Keyboard fonts • Membrane keyboard — user-definable label membrane keys • Function keys — Number of function keys • Short-stroke keys	Short-stroke keys (in switching cycles)			
Width of the housing front 155 mm 252.4 mm Height of housing front 155 mm 252.4 mm Mounting cutout, width 27.7 mm; Max. thickness of 24 mm; tolerances +0.5 mm, not including connection plug (depending on connector type) Mounting cutout, height 129.7 mm 244 mm; tolerances +0.5 mm, not including connection plug (depending on connector type) Overall depth 49 mm; Incl. angled SIMATIC Ethernet connector Type) Weight (without packaging) 270 g 297 Weight (without packaging) 270 g 297 Weight (with packaging) 475 g; incl. 1x 12-pole connector and 6x mounting clips Other Verroll of the Control	, , ,	100 %		100 %
Height of housing front Mounting cutout, width Mounting cutout, width Mounting cutout, width Mounting cutout, width Mounting cutout, height 129.7 mm 129.7 mm 24 mm; tolerances +0.5 mm, not including connection plug (depending on connector type) 244 mm; tolerances +0.5 mm, not including connection plug (depending on connector plug		98 mm		40.7 mm
mounting plate 2 - 6 mm (including connection plug (depending on connector type) Mounting cutout, height 129.7 mm 244 mm; tolerances +0.5 mm, not including connector plug (depending on connector plug) Weight (without packaging) 49 mm; Incl. angled SIMATIC Ethernet connector	Height of housing front	155 mm		252.4 mm
Overall depth 49 mm; Incl. angled SIMATIC Ethernet connector type) 68.15 mm; mounting plate thickness max. 1 6 mm Weights Weight (without packaging) 270 g 297 g Weight (with packaging) 475 g; incl. 1x 12-pole connector and 6x mounting clips Other Merchandise Yes; KS28603 Manufacturer name GETT Gerätetechnik GmbH Mittlerer Ring 1, 08233 Treuen (Vogtland), Germany Note: Key Panel must be configured as 6AV3688-3AY36-0AX0 Key Panel, compatible with 6AV2127-1AB00-0LX0 Article number 6AV3688-3AF37-0AX0 SIMATIC HMI KP8F PN General information Product type designation Control elements With parameterizable keys Keyboard fonts • Membrane keyboard — user-definable label membrane keys • Function keys — Number of function keys • Short-stroke keys	-	mounting plate 2 - 6 r		including connection plug (depending on connector type)
Overall depth 49 mm; Incl. angled SIMATIC Ethernet connector thickness max. 1 6 mm Weights Weight (without packaging) 270 g 297 g Weight (with packaging) 475 g; incl. 1x 12-pole connector and 6x mounting clips Other Merchandise Yes; KS28603 Manufacturer name GETT Gerätetechnik GmbH Mittlerer Ring 1, 08233 Treuen (Vogtland), Germany Note: Key Panel must be configured as 6AV3688-3AY36-0AX0 Key Panel, only 10 key Panel, only 10 key Panel must be configured as 6AV3688-3AY36-0AX0 Key Panel, only 10	iviouriting cutout, neight	129.1 mm		including connection plug
Weights Weight (without packaging) Weight (with packaging) 270 g 297 g 475 g; incl. 1x 12-pole connector and 6x mounting clips Other Merchandise Merchandise Manufacturer name Manufacturer's address Monufacturer's address Monufac	Overall depth		SIMATIC	68.15 mm; mounting plate
Weight (with packaging) 475 g; incl. 1x 12-pole connector and 6x mounting clips Other Merchandise Yes; KS28603 Manufacturer name Manufacturer's address Note: Rey Panel must be configured as 6AV3688-3AY36-0AX0 Key Panel, compatible with 6AV2127-1AB00-0LX0 Article number General information Product type designation Control elements With parameterizable keys *Keyboard fonts • Membrane keyboard — user-definable label membrane keys • Function keys — Number of function keys • Short-stroke keys	Weights	-		
Merchandise Manufacturer name Manufacturer's address Manufacturer's address Manufacturer's address Modulardi. GETT Gerätetechnik GmbH Mittlerer Ring 1, 08233 Treuen (Vogtland), Germany Key Panel must be configured as 6AV3688-3AY36-0AX0 Key Panel, compatible with 6AV2127-1AB00-0LX0 Article number GAV3688-3AF37-0AX0 SIMATIC HMI KP8F PN General information Product type designation KP8F PN Control elements With parameterizable keys Keyboard fonts • Membrane keyboard — user-definable label membrane keys • Function keys — Number of function keys • Short-stroke keys	- ,	270 g		475 g; incl. 1x 12-pole connector
Manufacturer name Manufacturer's address Mittlerer Ring 1, 08233 Treuen (Vogtland), Germany Note: Key Panel must be configured as 6AV3688-3AY36-0AX0 Key Panel, compatible with 6AV2127-1AB00-0LX0 Article number 6AV3688-3AF37-0AX0 SIMATIC HMI KP8F PN General information Product type designation Control elements With parameterizable keys Keyboard fonts • Membrane keyboard — user-definable label membrane keys Function keys • Function keys • Short-stroke keys	Other Merchandise			Yes: KS28603
Note: (Vogtland), Ğermany Key Panel must be configured as 6AV3688-3AV3689-3AV36-0AX0 Key Panel, compatible with 6AV2127-1AB00- 0LX0 Article number 6AV3688-3AF37-0AX0 SIMATIC HMI KP8F PN Control elements With parameterizable keys Yes Keyboard fonts • Membrane keyboard — user-definable label membrane keys • Function keys — Number of function keys • Short-stroke keys				
Note: Key Panel must be configured as 6AV3688-3AV36-AV36 Key Panel, compatible with 6AV2127-1AB00-0LX0 Article number 6AV3688-3AF37-0AX0 SIMATIC HMI KP8F PN General information Product type designation KP8F PN Control elements With parameterizable keys Keyboard fonts • Membrane keyboard — user-definable label membrane keys • Function keys — Number of function keys • Short-stroke keys	Manufacturer's address			
Article number General information Product type designation Control elements With parameterizable keys • Membrane keyboard — user-definable label membrane keys • Function keys — Number of function keys • Short-stroke keys	Note:			Key Panel must be configured as 6AV3688-3AY36-0AX0 Key Panel, compatible with 6AV2127-1AB00-
General information Product type designation Control elements With parameterizable keys Wes Keyboard fonts • Membrane keyboard — user-definable label membrane keys • Function keys — Number of function keys • Short-stroke keys	Article number			F37-0AX0
Control elements With parameterizable keys Keyboard fonts • Membrane keyboard — user-definable label membrane keys • Function keys — Number of function keys • Short-stroke keys	General information		•	
With parameterizable keys Keyboard fonts Membrane keyboard user-definable label membrane keys Function keys Number of function keys Short-stroke keys	,		KP8F PN	
Membrane keyboard — user-definable label membrane keys Function keys — Number of function keys Short-stroke keys			Yes	
Function keys Number of function keys Short-stroke keys	•			
— Number of function keys ● Short-stroke keys	— user-definable label membrane keys		Yes	
Short-stroke keys	• Function keys			
2	— Number of function keys		8	
— Number of short-stroke keys	•			
	— Number of short-stroke keys		8 	

DP direct LEDs (LEDs as S7 output I/O)	8; Adjustable brightness
Article number	6AV3688-3AF37-0AX0 SIMATIC HMI KP8F PN
Number of color modes for LED	5; red, green, blue, yellow, white
Direct keys (keys as S7 input I/O) Input II at a few few parties.	8
Installation type/mounting Mounting type	Mounting clip
Mounting position	vertical No
Rack mounting Front mounting	Yes; Compatible with Extension Units dimensions
Rail mounting	No
Wall mounting/direct mounting Mounting in portrait format possible	No Yes
Mounting in landscape format possible	Yes
maximum permissible angle of inclination without external ventilation Number of slots for command devices and signaling units	30°; To the front/rear 0
Supply voltage	
Type of supply voltage	DC 24 V; 24 V can be looped through connector,
Rated value (DC)	interrupted when pulled
permissible range, lower limit (DC) permissible range, upper limit (DC)	20.4 V 28.8 V
Input current	20.0 V
Current consumption (rated value)	0.3 A
Digital inputs Number of digital inputs	8; total inputs and outputs max. 8 and 2x SIL 2 or
	1x SIL 3
Input voltage • Rated value (DC)	24 V
Digital outputs	
Number of digital outputs Short-circuit protection	8; Max. 8 inputs and outputs (total) Yes
Switching capacity of the outputs	
with resistive load, max.	100 mA
Output voltage	24 V; Non-isolated
Rated value (DC) Total current of the outputs	24 v, 1001 isolated
Current per channel, max.	100 mA
Current per group, max.	800 mA
Interfaces	
Number of industrial Ethernet interfaces	For the construction of lines and rings without external switch
Number of PROFINET interfaces Industrial Ethernet	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; also 3rd party PLC
Supports protocol for PROFINET IO PROFINET CBA	Yes No
IRT	Yes
PROFIsafe	Yes; 1x SIL 3 (two-channel) or 2x SIL 2 (single- channel) emergency stop sensors
PROFIBUS	No
EtherNet/IP MPI	No No
AS-Interface	No
EIB/KNX Protocols (Ethernet)	No
• TCP/IP	No
Redundancy mode Media redundancy	
— MRP	Yes
Further protocols	No
AS-Interface Safety at Work CAN	No
CAN Data-Highway	No
DeviceNet	No
DeviceNet DeviceNet Safety	No
Foundation Fieldbus	No
• INTERBUS	No
INTERBUS-Safety	No
Local Operating Network	No
• MODBUS	No
SafetyBUS p	No
• SERCOS	No
SUCOnet	No
other bus systems	No
Test commissioning functions Illuminant test	Yes; During switch on
Key and signal lamp test	Yes; automatically when switching on
EMC Emission of radio interference acc. to EN 55 011	
Limit class A, for use in industrial areas	Yes; Group 1, measured at a distance of 10 m
Limit class B, for use in residential areas	No
Degree and class of protection	
IP (at the front)	IP65

IP (rear)	IP20
NEMA (front)	
Article number	6AV3688-3AF37-0AX0 SIMATIC HMI KP8F PN
Enclosure Type 4 at the front	No No
Enclosure Type 4x at the front	Yes; Incl. NEMA12
Standards, approvals, certificates	
CE mark cULus	Yes Yes
RCM (formerly C-TICK)	Yes
KC approval EAC (formerly Gost-R)	Yes Yes
ccc	No; not necessary
Suitable for safety functions Use in hazardous areas	Yes
• ATEX Zone 2	Yes
ATEX Zone 22	Yes
• cULus Class I Zone 1	No
• cULus Class I Zone 2, Division 2	Yes
FM Class I Division 2	Yes
Marine approval • Germanischer Lloyd (GL)	No
American Bureau of Shipping (ABS)	No
Bureau Veritas (BV)	No
Det Norske Veritas (DNV)	No
Lloyds Register of Shipping (LRS)	No
Nippon Kaiji Kyokai (Class NK)	No
Polski Rejestr Statkow (PRS)	No
Ambient conditions	
Ambient temperature during operation • min.	0 °C
• max.	55 °C
Operation (vertical installation)	
— For vertical installation, min.	0 °C
— For vertical installation, max.	55 °C
Operation (max. tilt angle) — At maximum tilt angle, min.	0 °C
— At maximum tilt angle, max.	45 °C
Operation (vertical installation, portrait format)	
— For vertical installation, min.	0 °C
— For vertical installation, max.	55 °C
Operation (max. tilt angle, portrait format) — At maximum tilt angle, min.	0 °C
At maximum tit angle, min. At maximum tilt angle, max.	45 °C
Ambient temperature during storage/transportation	
• min.	-20 °C
• max.	0° C
Relative humidity	95 %; no condensation
Operation, max. configuration / header	
Configuration software	
STEP 7 Basic (TIA Portal)	Yes
STEP 7 Professional (TIA Portal)	Yes
Functionality under WinCC (TIA Portal) Process coupling	
• S7-1200	Yes; with ET 200pro CPU and ET 200S CPU
• S7-1500	Yes
• S7-200	No
• S7-300/400	Yes; with F-CPU: STEP 7 V11 SP1 (or higher) and Safety V11 (or higher) or SIMATIC STEP 7 Basic
•1000	V11 (or higher)
LOGO! WinAC	Yes
SINUMERIK	No
• SIMOTION	No
Allen Bradley (EtherNet/IP)	No
Allen Bradley (DF1)	No
Mitsubishi (MC TCP/IP)	No
Mitsubishi (FX)	No
OMRON (FINS TCP)	No
OMRON (LINK/Multilink)	No
Modicon (Modbus TCP/IP)	No No
Modicon (Modbus) Machania (motorial	No
Mechanics/material Enclosure material (front)	
• Plastic	Yes
Aluminum	No
Stainless steel	No
Service life	1 500 000
Short-stroke keys (in switching cycles)	. 555 555

• LEDs (ON period)	100 %
Dimensions	
Article number	6AV3688-3AF37-0AX0 SIMATIC HMI KP8F PN
Width of the housing front	98 mm
Height of housing front	155 mm
Mounting cutout, width	67.7 mm; Max. thickness of mounting plate 2 - 6 mm
Mounting cutout, height Overall depth	129.7 mm 49 mm; Incl. angled SIMATIC Ethernet connector
Weights	40 mm, mo. drighed character connector
Weight (without packaging)	280 g
Article number	6AV3688-3EH47-0AX0
Canaval information	SIMATIC HMI KP32F PN
General information Product type designation	KP32F PN
Control elements	
With parameterizable keys Keyboard fonts	Yes
Membrane keyboard	
— user-definable label membrane keys	Yes
Function keys	
— Number of function keys	32
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)	8; Adjustable brightness
Number of color modes for LED	5; red, green, blue, yellow, white
Direct keys (keys as S7 input I/O)	32
Installation type/mounting	
Mounting type	Mounting clip
Mounting position Rack mounting	vertical No
Front mounting	Yes
Rail mounting	No No
Wall mounting/direct mounting Mounting in portrait format possible	No Yes
Mounting in landscape format possible	Yes
maximum permissible angle of inclination without external ventilation Number of slots for command devices and signaling units	30°; To the front/rear 0
Supply voltage	
Type of supply voltage	DC
Rated value (DC)	24 V; 24 V looped through at connector, no interruption on pulling
permissible range, lower limit (DC)	20.4 V
permissible range, upper limit (DC) Input current	28.8 V
Current consumption (rated value)	1 A
Digital inputs Number of digital inputs	32; Total inputs and outputs max. 32 and 2x SIL 2
•	or 4x SIL 3
Input voltage • Rated value (DC)	24 V
Digital outputs	<u> </u>
Number of digital outputs	16; Max. 32 inputs and outputs (total)
Short-circuit protection Switching capacity of the outputs	Yes
with resistive load, max.	100 mA
Output voltage	
Rated value (DC)	24 V; Non-isolated
Total current of the outputs	400 A
Current per channel, max.	100 mA
Current per group, max.	800 mA
Interfaces Number of industrial Ethernet interfaces	2; For the construction of lines and rings without
Number of PROFINET interfaces	external switch
Industrial Ethernet	2; Incl. switch
Industrial Ethernet status LED	2; Per port
Number of ports of the integrated switch	2; Per port
Protocols	
PROFINET Supports protocol for PROFINET IO	Yes; incl. shared device, 3rd party PLC Yes
PROFINET CBA	No
IRT BROElecto	Yes
PROFIsafe	Yes; 2x SIL 3 (two-channel) or 4x SIL 2 (single- channel) emergency stop sensors
PROFIBUS EtherNet/IIP	No No
EtherNet/IP MPI	No No
AS-Interface	No
EIB/KNX Protocols (Ethernet)	No
• TCP/IP	No
Redundancy mode	
Media redundancy	Voc
— MRP	Yes
Further protocols • AS-Interface Safety at Work	No
• CAN	No
- 5/111	

Devocable Selection Sele	Data-Highway	No
	Article number	
	a DoviceNet	·
F. FULL GENERAL SAME No No No No No No No N		
INTERBUS-States	•	No
Local Operating Network	• INTERBUS	No
MODBUS No No No - Salety-DUS No No - Called No	INTERBUS-Safety	No
** SIGNOPUSS p	Local Operating Network	No
** SERCOS** ** SUCCIDENT** ** SERCOS** ** SUCCIDENT** ** SCHEPCOS** ** SUCCIDENT** ** SCHEPCOS** ** SUCCIDENT** ** SCHEPCOS** ** SCH	MODBUS	No
- SUCCIONE - Other bas systems - SUCCIONE - Other bas systems - STEET commissioning functions - Silliminant test - Key and signal lamp test - Veri, Juring switch on - Key, and signal lamp test - Limin class A, for use in incidential areas - Limin class A, for use in incidential areas - Limin class A, for use in residential areas - Limin class A, for use in residential areas - Limin class A, for use in residential areas - No - Pick (a the finos)	SafetyBUS p	
- offer bus systems Fest commissioning functions Illiminiant less Vest, During switch on Vest, automatically when switching on Vest, dispalled light	• SERCOS	
Tiles commissioning functions Vest During switch on Vest During switch on		
Muminant lea!		No
Ministro of radio interference acc. to EN 55 911	-	Yes; During switch on
Emission of radio Interference acc. to EM 5 011 - Limit class A, for use in industratial areas - Limit class A, for use in industratial areas - Limit class A, for use in industratial areas - Piet (the front) - Piet (the f		Yes; automatically when switching on
Limit class 8, for use in residential areas Degree and class of protection P65 P(rear) P20 P(rear) P20 P20 P(rear) P20 P20 P(rear) P20 P20 P(rear) P30 P30 P30 P30 P(rear) P30 P30 P30 P30 P30 P(rear) P30 P30 P30 P30 P30 P30 P(rear) P30 P30 P30 P30 P30 P30 P(rear) P30 P30 P30 P30 P30 P30 P30 P30 P30 P30 P30 P30 P30 P30 P30 P30 P30 P30 P30 P30 P30 P30 P30 P30 P30 P30 P30 P30 P30 P30 P30 P30 P30 P30 P30 P30 P30 P30 P30 P30 P30 P30 P30 P30 P30 P30 P30 P30 P30 P30 P30 P30 P30 P30 P30 P30 P30 P30 P30 P30 P30 P30 P30 P30 P30 P30 P30 P30 P30 P30 P30 P30 P30 P30 P30 P30 P30 P30 P30 P30 P30 P30 P30 P30 P30 P30 P30 P30 P30 P30 P30 P30 P30 P30 P30 P30 P30 P30 P30 P30 P30 P30 P30 P30 P30 P30 P30 P30 P30 P30 P30 P30 P30 P30 P30 P30 P30 P30 P30 P30 P30 P30 P30 P30 P30 P30 P30 P30 P30 P30 P30 P30 P30 P30 P30 P30 P30 P30 P30 P30 P30 P30 P30 P30 P30 P30 P30 P30 P30 P30 P30 P30 P30 P30 P30 P30 P30 P30 P30 P30 P30 P30 P30 P30 P30 P30 P30	EMC Emission of radio interference acc. to EN 55 011	
Degree and class of protection P(at the finet)	Limit class A, for use in industrial areas	Yes; Group 1, measured at a distance of 10 m
Figet the front) Figet the front) Figet the front Figet th	Limit class B, for use in residential areas	No
Process P	Degree and class of protection	IDOS.
NEMM (from)		
Enclosure Type 4x at the front	NEMA (front)	
Standards, approvals, certificates Yes Yes Citus Yes Yes Citus Yes Yes Citus Yes Yes Citus Yes Y		
CE mark Yes Yes RCM (formerly C-TICK) Yes RCM (formerly C-TICK) Yes RCM (formerly C-TICK) Yes RCM (formerly Gost-R) Yes Yes RCM (formerly Gost-R) Yes		169, IIIG. INEIVIA 12
RCM (formerly C-TICK) Yes KCA approval Yes EAC (formerly Gost-R) Yes CCC No; not necessary Sultable for safety functions Yes Ecological footprint Yes — environmental product declaration 113 kg — global warming potential, (during production) [CO2 eq] 38.5 kg — global warming potential, (during operation) [CO2 eq] 82.3 kg — global warming potential, (after end of life cycle) [CO2 eq] 82.7 kg — global warming potential, (after end of life cycle) [CO2 eq] 82.7 kg — global warming potential, (after end of life cycle) [CO2 eq] 82.7 kg — global warming potential, (after end of life cycle) [CO2 eq] 82.7 kg — global warming potential, (after end of life cycle) [CO2 eq] 82.7 kg — global warming potential, (after end of life cycle) [CO2 eq] 82.7 kg — global warming potential, (after end of life cycle) [CO2 eq] 82.7 kg — lock lock lock lock lock lock lock lock		Yes
KC approval		
EAC (Inmerly Gost-R)		
Suitable for safety functions Yes	EAC (formerly Gost-R)	
Ecological footprint • environmental product declaration Global warming potential, (total) [CO2 eq] 113 kg — global warming potential, (during production) [CO2 eq] 38.5 kg — global warming potential, (during operation) [CO2 eq] 82.3 kg — global warming potential, (after end of life cycle) [CO2 eq] 8.27 kg Use in hazardous areas • ATEX Zone 2 No • ATEX Zone 2 No • CULus Class I Zone 1, Division 2 No • EM Class I Zone 2, Division 2 No • FM Class I Division 2 No • Polask Register of Shipping (ABS) No • Nippon Kaiji Kyokai (Class NK) No • Polask Rejeats Tastakove (PR		
Global warming potential Global warming global war	Ecological footprint	
— global warming potential, (total) [CO2 eq]		Yes
— global warming potential, (during production) [CO2 eq] 38.5 kg — global warming potential, (during operation) [CO2 eq] 42.3 kg — global warming potential, (after end of life cycle) [CO2 eq] 42.7 kg Well in hazardous areas No No		113 kg
— global warming potential, (during operation) (CO2 eq] — global warming potential, (after end of life cycle) (CO2 eq] — global warming potential, (after end of life cycle) (CO2 eq] Use in hazardous areas • ATEX Zone 2 • ATEX Zone 22 • cULus Class I Zone 1 • cULus Class I Zone 1 • cULus Class I Zone 2, Division 2 • FM Class I Division 2 Marine approval • Germanischer Lloyd (GL) • American Bureau of Shipping (ABS) • Bureau Veritas (BV) • Det Norske Veritas (DNV) • Lloyds Register of Shipping (LRS) • Nippon Kaiji Kyokai (Class NK) • Polski Rejest Statkow (PRS) Ambient conditions Ambient conditions Ambient conditions — For vertical installation, min. • For vertical installation, max. Operation (vertical installation, max. Operation (vertical installation, min. — At maximum tilt angle, min. — For vertical installation, min. — For vertical		
See		
Use in hazardous areas • ATEX Zone 2 No • ATEX Zone 22 No • CULus Class I Zone 1 No • CLUss Class I Zone 2, Division 2 No • FM Class I Division 2 No • Germanischer Lloyd (GL) No • American Bureau of Shipping (ABS) No • Bureau Veritas (BV) No • Det Norske Veritas (DNV) No • Det Norske Veritas (DNV) No • Divide Register of Shipping (LRS) No • Nippon Kaiji Kyokai (Class NK) No • Poloki Rejestr Statkow (PRS) No Ambient conditions Ambient temperature during operation • min. 0°C • max. 55°C Operation (vertical installation) — For vertical installation, min. 0°C — For vertical installation, max. 55°C Operation (max. tilt angle, min. 0°C — At maximum tilt angle, min. 0°C — At maximum tilt angle, min. 0°C — For vertical installation, portrait format) — For vertical installation, portrait format) — For vertical installation, max. 55°C Operation (max. tilt angle, portrait format) — For vertical installation, max. 55°C Operation (max. tilt angle, min. 0°C — At maximum tilt angle, min. 0°C — Operation (max. tilt angle, min. 0°C — At maximum tilt angle, min. 0°C — Operation (max. tilt angle, min. 0°C — Operation (max. tilt angle, min. 0°C — Operation (max. tilt angle		
ATEX Zone 22 • cULus Class I Zone 1 • cULus Class I Zone 2, Division 2 • FM Class I Division 2 Marine approval • Germanischer Lloyd (GL) • American Bureau of Shipping (ABS) • Bureau Veritas (BV) • Det Norske Veritas (DNV) • Det Norske Veritas (DNV) • Det Norske Veritas (Class NK) • Nippon Kaiji Kyokai (Class NK) • Polski Rejestr Statkow (PRS) Ambient conditions Ambient unditions Ambient installation, min. — For vertical installation, max. Operation (wax. tilt angle, max. Operation (vertical installation, portrait format) — For vertical installation, min. — For vertical installation, min. — At maximum tilt angle, min. — For vertical installation, min. — For vertical installation, min. — For vertical installation, min. — At maximum tilt angle, min. — For vertical installation, min. — For vertical installation, min. — At maximum tilt angle, min. — For vertical installation, min. — For vertical installation, min. — For vertical installation, min. — At maximum tilt angle, min. — For vertical installation, min. — At maximum tilt angle, min. — For vertical installation, min. — For vertical installation, min. — At maximum tilt angle, min. — At maximum tilt angle, min. — At maximum tilt angle, max. Operation (max. tilt angle, max. Ambient temperature during storage/transportation • min. • max. 60 °C Relative humidity • Operation, max. configuration software	Use in hazardous areas	<u> </u>
e cULus Class I Zone 1 e cULus Class I Zone 2, Division 2 No FM Class I Division 2 No Marine approval e Germanischer Lloyd (GL) e American Bureau of Shipping (ABS) No Bureau Veritas (BV) Det Norske Veritas (DNV) No Lloyds Register of Shipping (LRS) No	ATEX Zone 2	No
Cultus Class I Zone 2, Division 2 FM Class I Division 2 FM Class I Division 2 Cermanischer Lloyd (GL) American Bureau of Shipping (ABS) Bureau Veritas (BV) Lloyds Register of Shipping (LRS) No Lloyds Register of Shipping (LRS) No No Lloyds Register of Shipping (LRS) No No Polski Rejestr Statkow (PRS) Ambient temperature during operation max. Operation (vertical installation) — For vertical installation, max. Operation (max. tilt angle) — At maximum tilt angle, max. Operation (vertical installation, portrait format) — For vertical installation, portrait format) — For vertical installation, max. Operation (vertical installation, portrait format) — At maximum tilt angle, max. Operation (vertical installation, max. Operation (vertical installation, portrait format) — At maximum tilt angle, max. Operation (vertical installation, max. Operation (ver	ATEX Zone 22	No
### FM Class I Division 2 ### American Bureau of Shipping (ABS) #### American Bureau of Shipping (ABS) #### Bureau Veritas (BV) #### Det Norske Veritas (DNV) #### Det Norske Veritas (DN	cULus Class I Zone 1	
American Bureau of Shipping (ABS) American Bureau of Shipping (ABS) Bureau Veritas (BV) Det Norske Veritas (DNV) Lloyds Register of Shipping (LRS) No No No Polski Rejestr Statkow (PRS) Ambient conditions Ambient temperature during operation min. To "C To vertical installation, min. For vertical installation, max. Operation (war. tilt angle, min. At maximum tilt angle, min. At maximum tilt angle, min. For vertical installation, portrait format) For vertical installation, portrait format) For vertical installation, min. At maximum tilt angle, min. At maximum tilt angle, min. For vertical installation, portrait format) For vertical installation, min. For vertical installation, portrait format) At maximum tilt angle, min. For vertical installation, min. For vertical installation, portrait format) At maximum tilt angle, min. For vertical installation, max. Operation (war. tilt angle, portrait format) At maximum tilt angle, min. At maximum tilt angle, min. O "C At maximum tilt angle, max. Ambient temperature during storage/transportation min. Po "C Relative humidity Operation, max. Configuration software	·	
Germanischer Lloyd (GL) American Bureau of Shipping (ABS) Bureau Veritas (BV) Det Norske Veritas (DNV) Lloyds Register of Shipping (LRS) No		No
American Bureau of Shipping (ABS) Bureau Veritas (BV) Det Norske Veritas (DNV) Lloyds Register of Shipping (LRS) No	• •	No
Bureau Veritas (BV) Det Norske Veritas (DNV) Lloyds Register of Shipping (LRS) No		No
Lloyds Register of Shipping (LRS) No No Nippon Kaiji Kyokai (Class NK) No Polski Rejestr Statkow (PRS) Ambient conditions Ambient temperature during operation inin. O °C max. Operation (vertical installation) — For vertical installation, min. — For vertical installation, max. Operation (max. tilt angle, min. — At maximum tilt angle, max. Operation (vertical installation, portrait format) — For vertical installation, portrait format) — At maximum tilt angle, min. — For vertical installation, max. Operation (vertical installation, portrait format) — For vertical installation, min. — For vertical installation, max. Operation (max. tilt angle, portrait format) — At maximum tilt angle, portrait format) — At maximum tilt angle, min. — At maximum tilt angle, max. Ambient temperature during storage/transportation inin. o °C Relative humidity o Operation, max. of °C Relative humidity operation, header Configuration / header Configuration software		No
Nippon Kaiji Kyokai (Class NK) Polski Rejestr Statkow (PRS) Ambient conditions Ambient temperature during operation min.	` '	No
Polski Rejestr Statkow (PRS) Ambient conditions Ambient temperature during operation Inin.	Lloyds Register of Shipping (LRS)	No
Ambient conditions Ambient temperature during operation • min. 0 °C • max. 55 °C Operation (vertical installation) — For vertical installation, min. 0 °C — For vertical installation, max. 55 °C Operation (max. tilt angle) — At maximum tilt angle, min. 0 °C — At maximum tilt angle, max. 45 °C Operation (vertical installation, portrait format) — For vertical installation, min. 0 °C — For vertical installation, min. 55 °C Operation (vertical installation, max. 55 °C Operation (max. tilt angle, max. 45 °C Operation (max. tilt angle, portrait format) — At maximum tilt angle, max. 45 °C Ambient temperature during storage/transportation • min20 °C Relative humidity • Operation, max. 95 %; no condensation	Nippon Kaiji Kyokai (Class NK)	No
Ambient temperature during operation • min.		No
• min. 0 ° C • max. 55 ° C Operation (vertical installation) — For vertical installation, min. 0 ° C — For vertical installation, max. 55 ° C Operation (max. tilt angle) — At maximum tilt angle, min. 0 ° C — At maximum tilt angle, max. 45 ° C Operation (vertical installation, portrait format) — For vertical installation, portrait format) — For vertical installation, min. 0 ° C Operation (max. tilt angle, portrait format) — At maximum tilt angle, min. 0 ° C Operation (max. tilt angle, min. 0 ° C At maximum tilt angle, max. 45 ° C Ambient temperature during storage/transportation • min20 ° C Relative humidity • Operation, max. 95 %; no condensation	Ambient conditions Ambient temperature during operation	
• max. 55 °C Operation (vertical installation) — For vertical installation, min. 0 °C — For vertical installation, max. 55 °C Operation (max. tilt angle) — At maximum tilt angle, min. 0 °C — At maximum tilt angle, max. 45 °C Operation (vertical installation, portrait format) — For vertical installation, min. 0 °C — For vertical installation, max. 55 °C Operation (max. tilt angle, portrait format) — At maximum tilt angle, min. 0 °C — At maximum tilt angle, min. 0 °C — At maximum tilt angle, max. 45 °C Ambient temperature during storage/transportation • min20 °C Relative humidity • Operation / header Configuration / header Configuration software		0 °C
For vertical installation, min. For vertical installation, max. O °C For vertical installation, max. O °C Operation (max. tilt angle) At maximum tilt angle, min. At maximum tilt angle, max. Operation (vertical installation, portrait format) For vertical installation, min. For vertical installation, max. Operation (max. tilt angle, portrait format) At maximum tilt angle, min. At maximum tilt angle, max. O °C Ambient temperature during storage/transportation min. max. O °C Ambient temperature during storage/transportation o min. o configuration / header Configuration / header Configuration software		55 °C
For vertical installation, max. Operation (max. tilt angle) — At maximum tilt angle, min. — At maximum tilt angle, max. Operation (vertical installation, portrait format) — For vertical installation, min. — For vertical installation, max. Operation (max. tilt angle, portrait format) — At maximum tilt angle, min. — At maximum tilt angle, min. — At maximum tilt angle, max. Abbient temperature during storage/transportation • min. • max. Relative humidity • Operation, max. Configuration / header Configuration software	Operation (vertical installation)	
Operation (max. tilt angle) — At maximum tilt angle, min. — At maximum tilt angle, max. Operation (vertical installation, portrait format) — For vertical installation, min. — For vertical installation, max. Operation (max. tilt angle, portrait format) — At maximum tilt angle, min. — At maximum tilt angle, max. Abordance of operation (max. tilt angle, max. As occupance of operation (max. tilt angle, max. Operation (max. tilt angle, max. As occupance of operation (max. tilt angle, max. Ope		
At maximum tilt angle, min. At maximum tilt angle, max. Operation (vertical installation, portrait format) For vertical installation, min. For vertical installation, max. O °C Operation (max. tilt angle, portrait format) At maximum tilt angle, min. At maximum tilt angle, max. O °C Ambient temperature during storage/transportation min. max. O °C Ambient temperature during storage/transportation o min. O °C Relative humidity Operation, max. Operation / header Configuration / header Configuration software		55 °C
At maximum tilt angle, max. At maximum tilt angle, max. Operation (vertical installation, portrait format) — For vertical installation, min. — For vertical installation, max. Operation (max. tilt angle, portrait format) — At maximum tilt angle, min. — At maximum tilt angle, max. Ambient temperature during storage/transportation • min. • max. 60 °C Relative humidity • Operation, max. configuration / header Configuration software		0°C
Operation (vertical installation, portrait format) — For vertical installation, min. — For vertical installation, max. O °C Operation (max. tilt angle, portrait format) — At maximum tilt angle, min. — At maximum tilt angle, max. Ambient temperature during storage/transportation • min. • max. 60 °C Relative humidity • Operation, max. configuration / header Configuration software	•	
For vertical installation, min. For vertical installation, max. O °C 55 °C Operation (max. tilt angle, portrait format) At maximum tilt angle, min. At maximum tilt angle, max. 45 °C Ambient temperature during storage/transportation • min. • max. 60 °C Relative humidity • Operation, max. configuration / header Configuration software	Operation (vertical installation, portrait format)	
Operation (max. tilt angle, portrait format) — At maximum tilt angle, max. Abient temperature during storage/transportation • min. • max. Configuration / header Configuration software		0 °C
— At maximum tilt angle, min. — At maximum tilt angle, max. 45 °C Ambient temperature during storage/transportation • min. • max. 60 °C Relative humidity • Operation, max. configuration / header Configuration software		55 °C
At maximum tilt angle, max. Ambient temperature during storage/transportation • min. • max. • max. 60 °C Relative humidity • Operation, max. configuration / header Configuration software	Operation (max. tilt angle, portrait format)	0°C
Ambient temperature during storage/transportation • min. • max. 60 °C Relative humidity • Operation, max. configuration / header Configuration software	•	
min20 °C max. 60 °C Relative humidity Operation, max. 95 %; no condensation configuration / header Configuration software	-	
Relative humidity • Operation, max. configuration / header Configuration software		-20 °C
Operation, max. configuration / header Configuration software	• max.	0° ℃
configuration / header Configuration software	Relative humidity	OF 0/
Configuration software	*	95 %; no condensation
	configuration / header Configuration software	
		Yes

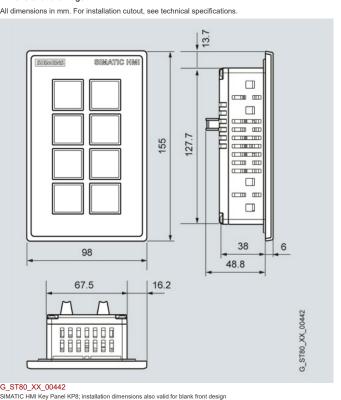
STEP 7 Professional (TIA Portal)	Yes
Article number	6AV3688-3EH47-0AX0 SIMATIC HMI KP32F PN
Functionality under WinCC (TIA Portal)	
Process coupling	Voc. with ET 200pro CRI Land ET 2005 CRI
• S7-1200	Yes; with ET 200pro CPU and ET 200S CPU Yes
• S7-1500	ves No
• S7-200	
• S7-300/400	Yes; with F-CPU: 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
Allen Bradley (EtherNet/IP)	No
Allen Bradley (DF1)	No
Mitsubishi (MC TCP/IP)	No No
Mitsubishi (FX)	No No
OMRON (FINS TCP) OMBON (FINS TCP)	No
OMRON (LINK/Multilink) A Line (Mark Toping)	No
Modicon (Modbus TCP/IP) Madican (Madbus)	No
Modicon (Modbus) Machanics (material)	
Mechanics/material Enclosure material (front)	
• Plastic	No
Aluminum	Yes
Stainless steel	No
Service life	
Short-stroke keys (in switching cycles)	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	37 mm; Incl. angled SIMATIC Ethernet connector
Weights Weight (without packaging)	1 220 g
Article number	6AV3688-3XY38-3AX0
	6AV3688-3XY38-3AX0 KP8 Design blank Front
Article number General information Product type designation	
General information Product type designation Installation type/mounting	KP8 Design blank Front Empty front design
General information Product type designation Installation type/mounting Mounting type	KP8 Design blank Front Empty front design Clamp terminals
General information Product type designation Installation type/mounting Mounting type Mounting position Rack mounting	Empty front design Clamp terminals any No
General information Product type designation Installation type/mounting Mounting type Mounting position Rack mounting Front mounting	Empty front design Clamp terminals any No Yes; Compatible with Extension Units dimensions
General information Product type designation Installation type/mounting Mounting type Mounting position Rack mounting	Empty front design Clamp terminals any No
General information Product type designation Installation type/mounting Mounting type Mounting position Rack mounting Front mounting Rail mounting Wall mounting/direct mounting Mounting in portrait format possible	Empty front design Clamp terminals any No Yes; Compatible with Extension Units dimensions No No Yes
General information Product type designation Installation type/mounting Mounting type Mounting position Rack mounting Front mounting Rail mounting Wall mounting/direct mounting Mounting in portrait format possible Mounting in landscape format possible	Empty front design Clamp terminals any No Yes; Compatible with Extension Units dimensions No No
General information Product type designation Installation type/mounting Mounting type Mounting position Rack mounting Front mounting Rail 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	Empty front design Clamp terminals any No Yes; Compatible with Extension Units dimensions No No Yes Yes
General information Product type designation Installation type/mounting Mounting type Mounting position Rack mounting Front mounting Front mounting 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	Empty front design Clamp terminals any No Yes; Compatible with Extension Units dimensions No No Yes Yes Yes Yes 5; Max. 5 possible
General information Product type designation Installation type/mounting Mounting type Mounting position Rack mounting Front mounting Rail 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	Empty front design Clamp terminals any No Yes; Compatible with Extension Units dimensions No No Yes Yes Yes Yes 180°; To the front/rear
General information Product type designation Installation type/mounting Mounting type Mounting position Rack mounting Front mounting Front 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 Design of the power supply Interfaces Number of industrial Ethernet interfaces	Empty front design Clamp terminals any No Yes; Compatible with Extension Units dimensions No No Yes Yes Yes 180°; To the front/rear 5; Max. 5 possible external
General information Product type designation Installation type/mounting Mounting type Mounting position Rack mounting Front mounting Front mounting Wall mounting/direct mounting Wall 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 Design of the power supply Interfaces Number of industrial Ethernet interfaces Number of PROFINET interfaces	Empty front design Clamp terminals any No Yes; Compatible with Extension Units dimensions No No Yes Yes Yes Yes Yes External 0 0
General information Product type designation Installation type/mounting Mounting type Mounting position Rack mounting Front mounting Front 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 Design of the power supply Interfaces Number of industrial Ethernet interfaces	Empty front design Clamp terminals any No Yes; Compatible with Extension Units dimensions No No Yes Yes Yes 180°; To the front/rear 5; Max. 5 possible external
General information Product type designation Installation type/mounting Mounting type Mounting position Rack mounting Front mounting Front 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 Design of the power supply Interfaces Number of industrial Ethernet interfaces Number of USB interfaces Number of USB interfaces Protocols PROFINET	Empty front design Clamp terminals any No Yes; Compatible with Extension Units dimensions No No Yes Yes Yes 180°; To the front/rear 5; Max. 5 possible external 0 0 0 0 No
General information Product type designation Installation type/mounting Mounting type Mounting position Rack mounting Front mounting Front 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 Design of the power supply Interfaces Number of industrial Ethernet interfaces Number of PROFINET interfaces Number of USB interfaces Protocols PROFINET PROFISafe	Empty front design Clamp terminals any No Yes; Compatible with Extension Units dimensions No No Yes Yes Yes 180°; To the front/rear 5; Max. 5 possible external 0 0 0
General information Product type designation Installation type/mounting Mounting type Mounting position Rack mounting Front mounting Front 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 Design of the power supply Interfaces Number of industrial Ethernet interfaces Number of USB interfaces Number of USB interfaces Protocols PROFINET	Empty front design Clamp terminals any No Yes; Compatible with Extension Units dimensions No No Yes Yes Yes 180°; To the front/rear 5; Max. 5 possible external 0 0 0 0 No
General information Product type designation Installation type/mounting Mounting type Mounting position Rack mounting Front mounting Front mounting 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 Design of the power supply Interfaces Number of industrial Ethernet interfaces Number of PROFINET interfaces Number of USB interfaces Protocols PROFINET PROFISafe Redundancy mode	Empty front design Clamp terminals any No Yes; Compatible with Extension Units dimensions No No Yes Yes Yes 180°; To the front/rear 5; Max. 5 possible external 0 0 0 0 No
General information Product type designation Installation type/mounting Mounting type Mounting position Rack mounting Front mounting Rail 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 Design of the power supply Interfaces Number of industrial Ethernet interfaces Number of PROFINET interfaces Number of USB interfaces Protocols PROFINET PROFISafe Redundancy mode Media redundancy — MRP Test commissioning functions	Empty front design Clamp terminals any No Yes; Compatible with Extension Units dimensions No No Yes Yes 180°; To the front/rear 5; Max. 5 possible external 0 0 0 No No No
General information Product type designation Installation type/mounting Mounting type Mounting position Rack mounting Front mounting Front mounting Rail 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 Design of the power supply Interfaces Number of industrial Ethernet interfaces Number of USB interfaces Protocols PROFINET PROFISATE PROFISATE Redundancy mode Media redundancy — MRP Test commissioning functions Key and signal lamp test	Empty front design Clamp terminals any No Yes; Compatible with Extension Units dimensions No No Yes Yes Yes Sy Yes 180°; To the front/rear 5; Max. 5 possible external O O O No No No
General information Product type designation Installation type/mounting Mounting type Mounting position Rack mounting Front mounting Front mounting Wall mounting/direct mounting Wall 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 Design of the power supply Interfaces Number of industrial Ethernet interfaces Number of PROFINET interfaces Number of USB interfaces PROFINET PROFIsafe Redundancy mode Media redundancy — MRP Test commissioning functions Key and signal lamp test Degree and class of protection IP (at the front)	Empty front design Clamp terminals any No Yes; Compatible with Extension Units dimensions No No Yes Yes Yes Yes Yes O No
General information Product type designation Installation type/mounting Mounting type Mounting position Rack mounting Front mounting Front mounting Wall mounting/direct mounting 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 Design of the power supply Interfaces Number of industrial Ethernet interfaces Number of PROFINET interfaces Number of USB interfaces Protocols PROFINET PROFISafe Redundancy mode Media redundancy — MRP Test commissioning functions Key and signal lamp test Degree and class of protection IP (at the front) IP (rear)	Empty front design Clamp terminals any No Yes; Compatible with Extension Units dimensions No No Yes Yes Yes 180°; To the front/rear 5; Max. 5 possible external 0 0 0 No No No No
General information Product type designation Installation type/mounting Mounting type Mounting position Rack mounting Front mounting Front mounting Wall mounting/direct mounting 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 Design of the power supply Interfaces Number of industrial Ethernet interfaces Number of PROFINET interfaces Number of USB interfaces Protocols PROFINET PROFISafe Redundancy mode Media redundancy — MRP Test commissioning functions Key and signal lamp test Degree and class of protection IP (at the front) IP (rear) NEMA (front)	Empty front design Clamp terminals any No Yes; Compatible with Extension Units dimensions No No Yes Yes Yes Yes Yes O No
General information Product type designation Installation type/mounting Mounting type Mounting position Rack mounting Front mounting Front mounting Rail 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 Design of the power supply Interfaces Number of industrial Ethernet interfaces Number of PROFINET interfaces Number of USB interfaces PROFINET PROFISafe Redundancy mode Media redundancy — MRP Test commissioning functions Key and signal lamp test Degree and class of protection IP (at the front) IP (rear) NEMA (front) • Enclosure Type 4 at the front	Empty front design Clamp terminals any No Yes; Compatible with Extension Units dimensions No No Yes Yes 180°; To the front/rear 5; Max. 5 possible external 0 0 0 0 No No No No No No No No No
General information Product type designation Installation type/mounting Mounting type Mounting position Rack mounting Front mounting Front mounting Wall mounting/direct mounting Mounting in portrait format possible Mounting in portrait format possible maximum permissible angle of inclination without external ventilation Number of slots for command devices and signaling units Supply voltage Design of the power supply Interfaces Number of industrial Ethernet interfaces Number of PROFINET interfaces Number of USB interfaces Protocols PROFINET PROFISafe Redundancy mode Media redundancy — MRP Test commissioning functions Key and signal lamp test Degree and class of protection IP (at the front) IP (rear) NEMA (front)	Empty front design Clamp terminals any No Yes; Compatible with Extension Units dimensions No No Yes Yes 180°; To the front/rear 5; Max. 5 possible external 0 0 0 No
General information Product type designation Installation type/mounting Mounting type Mounting position Rack mounting Front mounting Rail 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 Design of the power supply Interfaces Number of industrial Ethernet interfaces Number of PROFINET interfaces Number of USB interfaces Protocols PROFINET PROFIsafe Redundancy mode Media redundancy — MRP Test commissioning functions Key and signal lamp test Degree and class of protection IP (at the front) IP (rear) NEMA (front) • Enclosure Type 4 at the front • Enclosure Type 4x at the front Standards, approvals, certificates CE mark	Empty front design Clamp terminals any No Yes; Compatible with Extension Units dimensions No No Yes Yes Yes Yes Yes Yes O No
General information Product type designation Installation type/mounting Mounting type Mounting position Rack mounting Front mounting Front mounting 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 Design of the power supply Interfaces Number of industrial Ethernet interfaces Number of PROFINET interfaces Number of USB interfaces Protocols PROFINET PROFIsafe Redundancy mode Media redundancy — MRP Test commissioning functions Key and signal lamp test Degree and class of protection IP (at the front) IP (rear) NEMA (front) • Enclosure Type 4 at the front Standards, approvals, certificates CE mark cULus	Empty front design Clamp terminals any No Yes; Compatible with Extension Units dimensions No No Yes Yes Yes Yes Yes O No
General information Product type designation Installation type/mounting Mounting type Mounting position Rack mounting Front mounting Rail mounting Wall mounting/direct mounting Woulting 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 Design of the power supply Interfaces Number of industrial Ethernet interfaces Number of PROFINET interfaces Number of USB interfaces Protocols PROFINET PROFIsafe Redundancy mode Media redundancy — MRP Test commissioning functions Key and signal lamp test Degree and class of protection IP (at the front) IP (rear) NEMA (front) • Enclosure Type 4 at the front • Enclosure Type 4x at the front	Empty front design Clamp terminals any No Yes; Compatible with Extension Units dimensions No No Yes Yes Yes Yes Yes Yes O No
General information Product type designation Installation type/mounting Mounting type Mounting position Rack mounting Front mounting Rail mounting/direct mounting 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 Design of the power supply Interfaces Number of industrial Ethernet interfaces Number of PROFINET interfaces Number of USB interfaces Protocols PROFINET PROFISafe Redundancy mode Media redundancy — MRP Test commissioning functions Key and signal lamp test Degree and class of protection IP (at the front) IP (rear) NEMA (front) • Enclosure Type 4 at the front • Enclosure Type 4x at the front	Empty front design Clamp terminals any No Yes; Compatible with Extension Units dimensions No No Yes Yes 180°; To the front/rear 5; Max. 5 possible external 0 0 0 0 0 No
General information Product type designation Installation type/mounting Mounting type Mounting position Rack mounting Front mounting Rail 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 Design of the power supply Interfaces Number of industrial Ethernet interfaces Number of USB interfaces Number of USB interfaces Protocols PROFINET PROFISafe Redundancy mode Media redundancy — MRP Test commissioning functions Key and signal lamp test Degree and class of protection IP (at the front) IP (rear) NEMA (front) • Enclosure Type 4 at the front • Enclosure Type 4x at the front	Empty front design Clamp terminals any No Yes; Compatible with Extension Units dimensions No No Yes Yes 180°; To the front/rear 5; Max. 5 possible external O O O No
General information Product type designation Installation type/mounting Mounting type Mounting position Rack mounting Front mounting Rail 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 Design of the power supply Interfaces Number of industrial Ethernet interfaces Number of PROFINET interfaces Number of USB interfaces Protocols PROFINET PROFISafe Redundancy mode Media redundancy — MRP Test commissioning functions Key and signal lamp test Degree and class of protection IP (at the front) IP (rear) NEMA (front) • Enclosure Type 4 at the front • Enclosure Type 4x at the front • Enclosure Type 4x at the front	Empty front design Clamp terminals any No Yes; e.g. installation of emergency stop
General information Product type designation Installation type/mounting Mounting type Mounting position Rack mounting Front mounting Rail 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 Design of the power supply Interfaces Number of Industrial Ethernet interfaces Number of PROFINET interfaces Number of USB interfaces Protocols PROFINET PROFISafe Redundancy mode Media redundancy — MRP Test commissioning functions Key and signal lamp test Degree and class of protection IP (at the front) IP (rear) NEMA (front) • Enclosure Type 4 at the front • Enclosure Type 4x at the front Standards, approvals, certificates CE mark cULus RCM (formerly C-TICK) KC approval Suitable for safety functions Use in hazardous areas • ATEX Zone 2 • ATEX Zone 2	Empty front design Clamp terminals any No Yes; e.g. installation of emergency stop No N
General information Product type designation Installation type/mounting Mounting type Mounting position Rack mounting Front mounting Rail 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 Design of the power supply Interfaces Number of Industrial Ethernet interfaces Number of PROFINET interfaces Number of USB interfaces Protocols PROFINET PROFISafe Redundancy mode Media redundancy — MRP Test commissioning functions Key and signal lamp test Degree and class of protection IP (at the front) IP (rear) NEMA (front) • Enclosure Type 4 at the front • Enclosure Type 4x at the front • Enclosure Type 4x at the front	Empty front design Clamp terminals any No Yes; e.g. installation of emergency stop

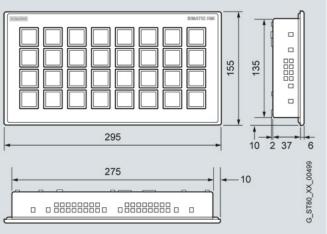
FM Class I Division 2	No
Marine approval	
Article number	6AV3688-3XY38-3AX0
	KP8 Design blank Front
Germanischer Lloyd (GL)	No
American Bureau of Shipping (ABS)	No
Bureau Veritas (BV)	No
Det Norske Veritas (DNV)	No
 Lloyds Register of Shipping (LRS) 	No
Nippon Kaiji Kyokai (Class NK)	No
Polski Rejestr Statkow (PRS)	No
Ambient conditions	
Ambient temperature during operation	
• min.	0 °C
• max.	55 °C
Operation (vertical installation)	
For vertical installation, min.	0 °C
— For vertical installation, max.	55 °C
Operation (max. tilt angle)	
— At maximum tilt angle, min.	0 °C
— At maximum tilt angle, max.	45 °C
Operation (vertical installation, portrait format)	
For vertical installation, min.	0 °C
For vertical installation, max.	45 °C
Operation (max. tilt angle, portrait format)	
— At maximum tilt angle, min.	0 °C
At maximum tilt angle, max.	45 °C
Ambient temperature during storage/transportation	
• min.	-20 °C
• max.	60 °C
Relative humidity	
Operation, max.	95 %
Mechanics/material	
Enclosure material (front)	
Plastic	No
Aluminum	Yes
Stainless steel	No
Dimensions	
Width	98 mm
Height	155 mm
Mounting cutout, width	68 mm; Max. thickness of mounting plate 2 - 6 mm
Mounting cutout, height	129 mm
Overall depth	49 mm
Weights	0.40
Weight (without packaging)	240 g
Other Merchandise	Vee
Merchandise Manufacturer name	Yes
Manufacturer name	SIEMENS AG

Gleiwitzerstraße 555, 90475 Nuremberg, Germany

Manufacturer's address

Dimensional drawings





G_ST80_XX_00499 SIMATIC HMI Key Panel KP32F

More information

More information is available on the internet at this link

For accessories see "SIMATIC HMI operator control and monitoring systems" -> "Accessories"

Note:

Do you need a specific modification or option for the products described here? Then look up "Customized Automation", where you will find information about additional sector-specific products that can be ordered as well as about options for customer-specific modification and adaptation.