

SIPLUS HMI Design empty front in KP8 format -25...+60 °C with conformal coating based on 6AV3688-3x Y38-3AX0 . Design empty front in KP8 format for easy mounting of standard 22.5 mm operator controls ideal for the setup of modular operator panels also suitable for installation in extension units of the pro devices



General information	
Product type designation	Empty front design
Control elements	
With parameterizable keys	No
Keyboard fonts	
<ul style="list-style-type: none"> <li>• Function keys</li> <li>— Number of function keys</li> </ul>	0
Installation type/mounting	
Mounting type	Clamp terminals
Mounting position	Any
Rack mounting	No
Front mounting	Yes; Compatible with Extension Units dimensions
Rail mounting	No
Wall mounting/direct mounting	No
Mounting in portrait format possible	Yes
Mounting in landscape format possible	Yes
maximum permissible angle of inclination without external ventilation	180°; To the front/rear

Number of slots for command devices and signaling units	5; Max. 5 possible
<b>Supply voltage</b>	
Type of supply voltage	external
<b>Type of output</b>	
LED colors	
• red	No
• yellow	No
• green	No
• white	No
• blue	No
<b>Interfaces</b>	
Number of USB interfaces	0
<b>Test commissioning functions</b>	
Key and signal lamp test	No
<b>EMC</b>	
Emission of radio interference acc. to EN 55 011	
• Limit class A, for use in industrial areas	No
• Limit class B, for use in residential areas	No
<b>Degree and class of protection</b>	
IP (at the front)	IP65
Enclosure Type 4 at the front	No
Enclosure Type 4x at the front	No
IP (rear)	IP20
<b>Standards, approvals, certificates</b>	
CE mark	Yes
cULus	No
RCM (formerly C-TICK)	No
KC approval	No
Suitable for safety functions	Yes; e.g. installation of emergency stop
<b>Marine approval</b>	
• 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
<b>Use in hazardous areas</b>	
• 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

## Ambient conditions

<b>Ambient temperature during operation</b>	
• min.	-40 °C; = Tmin
• max.	60 °C; = Tmax
• Operation (vertical installation)	
— For vertical installation, min.	-40 °C; = Tmin
— For vertical installation, max.	60 °C; = Tmax
• Operation (max. tilt angle)	
— At maximum tilt angle, min.	-40 °C; = Tmin
— At maximum tilt angle, min.	60 °C; = Tmax
• Operation (vertical installation, portrait format)	
— For vertical installation, min.	-40 °C; = Tmin
— For vertical installation, max.	60 °C; = Tmax
• Operation (max. tilt angle, portrait format)	
— At maximum tilt angle, min.	-40 °C; = Tmin
— At maximum tilt angle, min.	60 °C; = Tmax
<b>Ambient temperature during storage/transportation</b>	
• min.	-40 °C
• max.	80 °C
<b>Altitude during operation relating to sea level</b>	
• Installation altitude above sea level, max.	5 000 m
• Ambient air temperature-barometric pressure-altitude	Tmin ... Tmax at 1 140 hPa ... 795 hPa (-1 000 m ... +2 000 m) // Tmin ... (Tmax - 10 K) at 795 hPa ... 658 hPa (+2 000 m ... +3 500 m) // Tmin ... (Tmax -20 K) at 658 hPa ... 540 hPa (+3 500 m ... +5 000 m)
<b>Relative humidity</b>	
• With condensation, tested in accordance with IEC 60068-2-38, max.	100 %; RH incl. condensation/frost (no commissioning under condensation conditions)
<b>Resistance</b>	
<b>Coolants and lubricants</b>	
— Resistant to commercially available coolants and lubricants	Yes; Incl. diesel and oil droplets in the air
<b>Use in stationary industrial systems</b>	
— to biologically active substances according to EN 60721-3-3	Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna); Class 3B3 on request
— to chemically active substances according to EN 60721-3-3	Yes; Class 3C4 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *

— to mechanically active substances according to EN 60721-3-3	Yes; Class 3S4 incl. sand, dust, *
<b>Use on ships/at sea</b>	
— to biologically active substances according to EN 60721-3-6	Yes; Class 6B2 mold and fungal spores (excluding fauna); Class 6B3 on request
— to chemically active substances according to EN 60721-3-6	Yes; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *
— to mechanically active substances according to EN 60721-3-6	Yes; Class 6S3 incl. sand, dust; *
<b>from supply voltage 1L+</b>	
— Note regarding classification of environmental conditions acc. to EN 60721	* The supplied plug covers must remain in place over the unused interfaces during operation!

<b>Mechanics/material</b>	
Enclosure material (front)	
• Plastic	No
• Aluminum	Yes
• Stainless steel	No

<b>Dimensions</b>	
Width of the housing front	98 mm
Height of housing front	155 mm
Mounting cutout, width	68 mm; Max. thickness of mounting plate 2 - 6 mm
Mounting cutout, height	129 mm
Overall depth	49 mm

<b>Weights</b>	
Weight without packaging	240 g
<b>last modified:</b>	05/18/2018