

\*\*\*SPARE PART\*\*\* SIPLUS ET200S F-DO 24V PROFISAF -25 ...  
 +60 DEGREES C WITH CONFORMAL COATING BASED ON  
 6ES7138-4FB03-0AB0



Figure similar

Supply voltage	
Load voltage L+	
• Rated value (DC)	24 V
• Reverse polarity protection	No
Input current	
From load voltage L+ (no load), typ.	100 mA
from backplane bus 3.3 V DC, max.	28 mA
Power loss	
Power loss, typ.	3.5 W
Digital outputs	
Number of digital outputs	4
Short-circuit protection	Yes
Limitation of inductive shutdown voltage to	Typ. (2L+) -47 V
Controlling a digital input	No
Switching capacity of the outputs	
• on lamp load, max.	10 W

<b>Load resistance range</b>	
• lower limit	12 Ω
• upper limit	1 kΩ
<b>Output voltage</b>	
• for signal "1", min.	L+ (-2,0 V), current sourcing switch: L+ (-1,5 V), voltage drop on current sinking switch: max. 0.5 V
<b>Output current</b>	
• for signal "1" rated value	2 A
• for signal "1" permissible range, min.	20 mA
• for signal "1" permissible range, max.	2.4 A
• for signal "0" residual current, max.	0.5 mA; Current-sourcing: max. 0.5 mA; Current sinking: max. 4 mA
<b>Parallel switching of two outputs</b>	
• for uprating	No
• for redundant control of a load	No
<b>Switching frequency</b>	
• with resistive load, max.	30 Hz
• with inductive load, max.	0.1 Hz
• on lamp load, max.	10 Hz
<b>Total current of the outputs</b>	
• Current per module, max.	6 A
<b>Total current of the outputs (per group)</b>	
horizontal installation	
— up to 40 °C, max.	6 A
— up to 55 °C, max.	5 A
— up to 60 °C, max.	4 A
vertical installation	
— up to 40 °C, max.	4 A
<b>Cable length</b>	
• shielded, max.	200 m
• unshielded, max.	200 m
<b>Interrupts/diagnostics/status information</b>	
Diagnostic functions	Yes
<b>Diagnostic messages</b>	
• Wire-break	Yes
• Short-circuit	Yes
<b>Diagnostics indication LED</b>	
• Group error SF (red)	Yes
• Status indicator digital output (green)	Yes
<b>Potential separation</b>	
Potential separation digital outputs	

- |  |     |
|--|-----|
| • between the channels                     | No  |
| • between the channels and backplane bus   | Yes |
| • Between the channels and load voltage L+ | No  |

### Isolation

Isolation tested with	500 V DC
tested with	
• Channels against backplane bus and load voltage L+	1500 V AC

### Standards, approvals, certificates

Highest safety class achievable in safety mode	
• acc. to EN 954	4
• Performance level according to ISO 13849-1	e
• SIL acc. to IEC 61508	SIL 3

### Ambient conditions

Ambient temperature during operation	
• min.	-25 °C; = Tmin
• max.	60 °C; = Tmax

#### Extended ambient conditions

- |  |   |
|--|---|
| • relative to ambient temperature-atmospheric pressure-installation altitude | Tmin ... Tmax at 1080 hPa ... 795 hPa (-1000 m ... +2000 m) |
|--|---|

#### Relative humidity

- |   |   |
|---|---|
| — With condensation, tested in accordance with IEC 60068-2-38, max. | 100 %; RH incl. condensation/frost (no commissioning under condensation conditions) |
|---|---|

#### Resistance

- |   |  |
|---|--|
| — against biologically active substances / conformity with EN 60721-3-3 | Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna); Class 3B3 on request   |
| — against chemically active substances / conformity with EN 60721-3-3   | Yes; Class 3C4 (RH < 75%) incl. salt spray according to EN 60068-2-52 (degree of severity 3). The supplied connector covers must remain on the unused interfaces during operation! |
| — against mechanically active substances / conformity with EN 60721-3-3 | Yes; Class 3S4 incl. sand, dust. The supplied connector covers must remain on the unused interfaces during operation!  |

### Dimensions

Width	30 mm
Height	81 mm
Depth	52 mm

### Weights

Weight, approx.	85 g
<b>last modified:</b>	05/25/2017