

SIEMENS

Product data sheet

6ES7138-4FB03-0AB0


SIMATIC DP,
ELECTRON. MODULE F. ET200S,
4 F-DO PROFISAFE, DC 24V/2A,
30 MM WIDTH UP TO CATEGORY 4 (EN954-1)
ALSO USEABLE IN PROFINET- NETWORKS WITH
IM151-3 HF

Supply voltage	
Load voltage L+	
Rated value (DC)	24 V
Reverse polarity protection	No
Input current	
from load voltage L+ (without load), max.	typ. 100 mA
from backplane bus 3.3 V DC, max.	28 mA
Power losses	
Power loss, typ.	3.5 W
Digital outputs	
Number of digital outputs	4
Short-circuit protection	Yes ; Electronic
Limitation of inductive shutdown voltage to	Typ. (2L+) -47 V
Lamp load, max.	10 W
Controlling a digital input	No

Output voltage	
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
Output current	
for signal "1" rated value	2 A
for signal "1" permissible range for 0 to 60 °C, min.	20 mA
for signal "1" permissible range for 0 to 60 °C, max.	2.4 A
for signal "0" residual current, max.	0.5 mA ; Current-sourcing: max. 0.5 mA; Current sinking: max. 4 mA
Parallel switching of 2 outputs	
for increased power	No
for redundant control of a load	No
Switching frequency	
with resistive load, max.	30 Hz
with inductive load, max.	0.1 Hz
on lamp load, max.	10 Hz
Aggregate current of outputs (per group)	
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
Load resistance range	
lower limit	12 Ω
upper limit	1 kΩ
Cable length	
Cable length, shielded, max.	200 m
Cable length unshielded, max.	200 m
Interrupts/diagnostics/status information	
Diagnoses	
Diagnostic functions	Yes
Wire break	Yes

Short circuit	Yes
Diagnostics indication LED	
Group error SF (red)	Yes
Status indicator digital output (green)	Yes
Galvanic isolation	
Galvanic isolation digital outputs	
between the channels	No
between the channels and the backplane bus	Yes
between the channels and the load voltage L+	No
Isolation	
Isolation checked 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	Cat. 4
acc. to IEC 61508	SIL 3
Dimensions and weight	
Dimensions	
Width	30 mm
Height	81 mm
Depth	52 mm
Weight	
Weight, approx.	85 g
Status	Jul 13, 2011