

SIEMENS

Product data sheet

6ES7138-4CF42-0AB0


SIMATIC DP,
POWER MODULE PM-E F PROFISAFE,
FOR ET 200S;
24V DC USEABLE FOR INSTALLATIONS WITH
GROUNDED REFERENCE POTENTIAL RELAYS FOR
FAIL-SAFE SWITCHING OF VOLTAGE BUS P2 UP
TO CATEGORY 3 (EN954-1)/ SIL 2 (IEC61508) 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 24 V DC, max.	28 mA
Current carrying capacity	
Current carrying capacity up to 30 °C, max.	10 A
Current carrying capacity up to 40 °C, max.	8 A
Current carrying capacity up to 60 °C, max.	7 A
Power losses	
Power loss, typ.	4 W
Address area	
Address space per module	

without packing	5 byte ; Input and output in each case
Digital inputs	
Cable length	
Cable length, shielded, max.	200 m
Cable length unshielded, max.	200 m
Digital outputs	
Number/binary outputs	1 ; Relay
Functionality/short-circuit strength	No
Lamp load, max.	100 W
Controlling a digital input	Yes
Switching frequency	
with resistive load, max.	2 Hz
with inductive load, max.	0.1 Hz ; with inductive load to IEC 947-5-1, 13 DC /15 AC
on lamp load, max.	2 Hz
Aggregate current of outputs (per group)	
horizontal installation	
up to 40 °C, max.	10 A
up to 55 °C, max.	8 A
up to 60 °C, max.	7 A
vertical installation	
up to 40 °C, max.	8 A
Relay outputs	
Switching capacity of contacts	
at ohmic load, up to 50 °C, max.	10 A
Interrupts/diagnostics/status information	
Diagnostic messages	
Diagnostic functions	Yes
Diagnostic information readable	Yes
Wire break	No
Short circuit	Yes
Missing load voltage	Yes
Diagnostics indication LED	
Rated load voltage PWR (green)	Yes

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+	500 V DC
Standards, approvals, certificates	
Highest safety class achievable in safety mode	
acc. to EN 954	With Std-DO: max. Cat.3, without Std-DO max. Cat.4 depending on configuration
acc. to IEC 61508	With Std-DO: Max. SIL 2, without Std-DO max. SIL 3 depending on configuration
Dimensions	
Width	30 mm
Height	81 mm
Depth	52 mm
Weight	
Weight, approx.	80 g
Status	Jul 17, 2012