

SIEMENS

Product data sheet

6ES7138-4FR00-0AA0


SIMATIC DP,
ELECTRON. MODULE 1F-RO
DC24V/AC24...230V/5A,
F. ET200S, 30 MM WIDTH,
1 RELAY OUTPUT (2 NO-CONTACTS) OUTPUT
CURRENT 5A,
RATED VOLTAGE 24V DC AND 24 ... 230V AC,
USEABLE UP TO CAT.4 / SIL 3 IF CONTROLLED BY
A F-DO (E.G. 6ES7138-4FB02-0AB0)

Supply voltage	
Load voltage L+	
Rated value (DC)	24 V ; Supply via fail-safe output, e.g. of an F-DO
Input current	
from load voltage L+ (without load), max.	100 mA ; from control voltage
from backplane bus 3.3 V DC, max.	10 mA
Power losses	
Power loss, typ.	2.1 W
Address area	
Address space per module	
with packing	2 bit
without packing	1 byte
Digital inputs	
Cable length	
Cable length unshielded, max.	10 m ; control cable

Digital outputs	
Number/binary outputs	1
Functionality/short-circuit strength	No ; 6 A external fuse of duty category gL/gG
Controlling a digital input	Yes
Output current	
for signal "1" rated value	5 A
for signal "1" minimum load current	5 mA
Switching frequency	
with resistive load, max.	2 Hz
with inductive load, max.	0.1 Hz
Aggregate current of outputs (per group)	
horizontal installation	
up to 40 °C, max.	8 A
up to 55 °C, max.	6 A ; At 50 °C
up to 60 °C, max.	5 A ; up to max. 24.8 V
vertical installation	
up to 40 °C, max.	6 A
Relay outputs	
Switching capacity of contacts	
Thermal continuous current, max.	5 A
Cable length	
Cable length, shielded, max.	200 m
Cable length unshielded, max.	200 m
Interrupts/diagnostics/status information	
Diagnostics indication LED	
Status indicator digital output (green)	Yes
Galvanic isolation	
Galvanic isolation digital outputs	
between the channels	Yes
between the channels and the backplane bus	Yes
between the channels and the load voltage L+	Yes ; between channels and control voltage
Standards, approvals, certificates	
Highest safety class achievable in safety mode	

acc. to EN 954	Up to Cat. 4
acc. to IEC 61508	Up to SIL 3
Dimensions	
Width	30 mm
Height	81 mm
Depth	52 mm
Weight	
Weight, approx.	90 g
Status	Jul 24, 2012