SIEMENS

Data sheet 6ES7954-8LF02-0AA0

Figure similar

Spare part SIMATIC S7, memory cards for S7-1x 00 CPU/SINAMICS, 3, 3V Flash, 24 MByte

General information	
Product type designation	Memory card
Product function	
Protection function	
Engineering with	
Integrated drive control	
Operating mode	
Operator control and monitoring	
Process images	
User administration	
Alarms	
Recipes/user archives	
Display	
Line display	
Resolution (pixels)	
Control elements	
Input device	
Keyboard fonts	
Touch operation	
Connection type	
Special operator controls	
Frame size/design	
Ergonomics	
Supply voltage	
Line frequency	
Mains filter	
Mains buffering	
Load voltage L+	
Digital inputs	
Load voltage 1L+	
Load voltage 2L+	
Load voltage L1	
Auxiliary voltage 1L+, load voltage 2L+	
Input voltage	
Input voltage acc. to VDE	
Input voltage acc. to UL	

Line frequency	
Output current	
horizontal installation	
vertical installation	
Encoder supply	
Output current	
5 V encoder supply	
24 V encoder supply	
Additional 24 V encoder supply	
Memory	
Type of memory	Flash-EPROM
Flash	Yes
Memory size	24 Mbyte
Number of write/delete operations, min.	500 000
Data retention (after final programming action), min.	10 y; If the delete/write processes < 50 000 (1 a if the delete/write processes > 450 000)
Work memory	
Working memory for additional functions	
Battery	
Design	
CPU-blocks	
DB	
FB	
FC	
Counters, timers and their retentivity	
S7 counter	
IEC counter	
S7 times	
Data areas and their retentivity	
Flag	
Address area	
I/O address area	
of which distributed	
per integrated IO subsystem	
Process image	
Subprocess images	
Digital channels	
Analog channels	
Addressing volume	
Hardware configuration	
Formation of potential groups	
Module exchange	
Interface modules	
Number of DP masters	
Number of IO Controllers	
Number of operable FMs and CPs (recommended)	
Expansion modules	
Rack	
Submodules	
Selection of BaseUnit for connection variants	
PtP CM	
Time of day	
Clock	
Operating hours counter	
Time switching clocks	
Digital inputs	
Number of simultaneously controllable inputs	

all mounting positions
horizontal installation
Digital input functions, parameterizable
Input voltage
Input current
for 10 k switched contact
Internal preparation time
Input delay (for rated value of input voltage)
for standard inputs
for interrupt inputs
Encoder connection
Connection method
Digital outputs
Digital output functions, parameterizable
Control supply voltage
Switching capacity of the outputs
Load resistance range
Trend key points E
Output voltage
Output current
Output delay with resistive load
Parallel switching of two outputs
Switching frequency
Total current of the outputs
horizontal installation
Total current of the outputs (per group)
all mounting positions
horizontal installation
vertical installation
Total current of the outputs (per module)
all mounting positions
horizontal installation
Pulse output (passive)
Frequency output
Relay outputs
Integrated high-speed cams
Analog inputs
Input ranges
Measuring range
Input ranges (rated values), voltages
Input ranges (rated values), currents
Input ranges (rated values), thermocouples
Input ranges (rated values), resistance thermometer
Input ranges (rated values), resistors
Input ranges (rated values), strain gauges (full bridges)
Thermocouple (TC)
Characteristic linearization
Analog outputs
Output ranges, voltage
Output ranges, current
Connection of actuators
Load impedance (in rated range of output)
Analog value generation for the inputs
Integration and conversion time/resolution per channel
Analog value generation for the outputs
Integration and conversion time/resolution per channel
Encoder

Connection of signal encoders
Connectable encoders
Incremental encoder
Encoder signals, incremental encoder (symmetrical)
Encoder signals, incremental encoder (asymmetrical)
Encoder signals, absolute encoder (SSI)
Encoder signals, IEPE
Drive axis
EC motor
Errors/accuracies
Operational error limit in overall temperature range
Basic error limit (operational limit at 25 °C)
Power electronics
Control of heating elements
Load connection type
Setpoint input
Heating power
Interfaces
Video interfaces
Touch interfaces
MPI
PROFIBUS DP
PROFIBUS PA
Supports protocol for PROFINET IO
PROFINET functions
Industrial Ethernet
Point-to-point connection
Integrated protocol driver
Telegram length, max.
Transmission rate, 20 mA (TTY)
Transmission rate, RS 422/485
Transmission speed, RS 232
Signals
ET-Connection
EtherNet/IP
AS-Interface
WLAN
1. Interface
Interface types
Protocols
MPI
PROFIBUS DP master
Services
PROFIBUS DP slave
PROFINET IO Controller
Services
Update time for IRT
PROFINET IO Device
Services
PROFINET CBA
Open IE communication
CAN
BACnet
2. Interface
Interface types
Protocols
PROFIBUS DP master

Services
PROFIBUS DP slave
PROFINET IO Controller
Services
Update time for IRT
PROFINET IO Device
Services
PROFINET CBA
3. Interface
Interface types
Protocols
PROFIBUS DP master
Services
PROFIBUS DP slave
PROFINET IO Controller
PROFINET IO Device
Services
PROFINET CBA
4. Interface
Interface types
Protocols
PROFIBUS DP master
PROFINET IO Controller
Interface types
RJ 45 (Ethernet)
RS 232
RS 485
RS 422
USB port
Protocols
Protocols (USB)
Protocols (Ethernet)
WEB characteristics
Protocols (terminal link)
Number of connections
PROFINET IO Device
Redundancy mode
SIMATIC communication
EtherNet/IP
Services
Updating times
Redundancy mode
Open IE communication
Web server
PROFIBUS DP
PROFIdrive
DALI
Integrated protocols
Freeport
3964 (R)
OPC UA
Communication functions
Global data communication
S7 basic communication
S7 communication
LOGO! communication
S5 compatible communication
Standard communication (FMS)

PROFINET CBA (at set setpoint communication load)
Remote interconnections with acyclic transmission
Remote interconnections with cyclic transmission
iPAR server
Number of connections
Test commissioning functions
Status/control
Forcing
Diagnostic buffer
Interrupts/diagnostics/status information
Alarms
Integrated Functions
Monitoring functions
Safety monitoring functions
Counting functions
Load cell
Position detection
Control technology
Step-by-step controllers
Pulse generator
Measuring functions
Operating mode for measured value acquisition
Measuring range
Accuracy
Measuring inputs for voltage
Measuring inputs for current
Measuring inputs for current (Rog. or I/U converter)
Error limits
Counter
Counting mode
External gate counters
Counter input 5 V
Counter input 24 V
Drive interface
Signal Input
Potential separation
Potential separation digital inputs
Potential separation digital outputs
Potential separation analog inputs
Potential separation analog outputs
Potential separation channels
Potential separation valve outputs
Potential separation counter
Potential separation controller
EMC
Interference immunity against discharge of static electricity
Interference immunity against high-frequency electromagnetic fields
Interference immunity to cable-borne interference
Interference immunity against voltage surge
Interference immunity against conducted variable disturbance induced by high-frequency fields
Interference immunity to magnetic fields
Emission of radio interference acc. to EN 55 011
Emission of radio interference acc. to EN 55 022
Standards, approvals, certificates
Highest safety class achievable in safety mode
Highest safety class achievable for safety-related tripping of standard modules
Highest safety class achievable for deactivated dark test

Use in hazardous areas
Ambient conditions
Free fall
Ambient temperature during operation
Operation (vertical installation)
Operation (max. tilt angle)
Ambient temperature during storage/transportation
Air pressure acc. to IEC 60068-2-13
Altitude during operation relating to sea level
Relative humidity
Vibrations
Shock testing
Resistance
Coolants and lubricants
Use in stationary industrial systems
Use on land craft, rail vehicles and special-purpose vehicles
Use on ships/at sea
Fire resistance
Hardware requirement
Processor
Graphic
Operating systems
pre-installed operating system
Runs under operating system
Software
Preinstalled
Software functions
Multi-user system
Runtime software
Runtime
Block
Adjustable parameters
Configuration
Configuration
Configuration software
Script languages (Runtime)
Programming
Programming language
Configuration examples
Software libraries
Know-how protection
Access protection
Languages
Online languages
Functionality under WinCC (TIA Portal)
Multiproject
Message system
Recipe management
Variables
Images
Image objects
Complex image objects
Attributes for dynamic objects
Lists
Archiving
Filters
Security

Data carrier support	
Logging through printer	
Character sets	
Transfer (upload/download)	
Process coupling	
Functions	
Functionality under WinCC Unified	
Parameter set management (recipes)	
Image objects	
Connection method	
ET-Connection	
Terminals	
Connection I/O signals	
Conductor cross-section in mm²	
Conductor cross-section acc. to AWG	
Dimensions	
Width	24 mm
Height	32 mm
Depth	2.1 mm
Weights	
Weight, approx.	3 g
Other	
Data for selecting a voltage transformer	

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