



Figure similar

Spare Part SIPLUS LOGO! 24RCE -20 ...+70°C start up -20°C with conformal coating based on 6ED1052-1HB08-0BA0 . logic module,Display PS/I/O: 24 V AC/24 V DC/relay, 8 DI/4 DO, memory 400 blocks, modular expandable, Ethernet, integr. web server, data log, user- defined Web pages, standard microSD card for LOGO! Soft Comfort V8 or higher, older projects executable

General information

Product function
Protection function
Engineering with
Integrated drive control
Operating mode

Operator control and monitoring

Process images
User administration
Alarms
Recipes/user archives

Display

with display	Yes; The legibility and response time of the display may be reduced or lengthened at temperatures outside 0 ... +55 °C. These effects are self-reversing on return to the normal temperature range of 0 ... +55 °C.
--------------	---

Line display
Resolution (pixels)

Control elements

Input device
Keyboard fonts
Touch operation
Connection type
Special operator controls
Frame size/design
Ergonomics

Installation type/mounting

Mounting	on 35 mm DIN rail, 4 spacing units wide
----------	---

Supply voltage

Rated value (DC)	
• 24 V DC	Yes
permissible range, lower limit (DC)	20.4 V
permissible range, upper limit (DC)	28.8 V
Rated value (AC)	
• 24 V AC	Yes
Line frequency	
• permissible range, lower limit	47 Hz
• permissible range, upper limit	63 Hz

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
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	
• Number • Power reserve	400; Max. 400, function-specific 480 h
Digital inputs	
Number of digital inputs	8
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	
Number of digital outputs	4; Relays
Short-circuit protection	No; external fusing necessary
Digital output functions, parameterizable	
Control supply voltage	
Switching capacity of the outputs	
Load resistance range	
Trend key points E	
Output voltage	
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	
Switching capacity of contacts	
— with inductive load, max. — with resistive load, max.	3 A 10 A
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	
• Limit class B, for use in residential areas	Yes
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	
• min.	-25 °C; = Tmin; Startup @ -20 °C
• max.	70 °C; Tmax; Tmax > +55 °C max. load 1 A per relay or max. load 3 A per relay and half the number of DIs (no adjacent points)
• At cold restart, min.	-20 °C; incl. condensation / frost permitted (no commissioning under condensation conditions)
Operation (vertical installation)	
Ambient temperature during storage/transportation	
• min.	-40 °C
• max.	70 °C
Air pressure acc. to IEC 60068-2-13	
Altitude during operation relating to sea level	
• Installation altitude above sea level, max.	5 000 m
• Ambient air temperature-barometric pressure-altitude	Tmin ... Tmax at 1 140 hPa ... 795 hPa (-1 000 m ... +2 000 m) // Tmin ... (Tmax - 10 K) at 795 hPa ... 658 hPa (+2 000 m ... +3 500 m) // Tmin ... (Tmax -20 K) at 658 hPa ... 540 hPa (+3 500 m ... +5 000 m)
Relative humidity	
• With condensation, tested in accordance with IEC 60068-2-38, max.	100 %; RH incl. condensation / frost (no commissioning in bedewed state), horizontal installation
Vibrations	
Shock testing	
Resistance	
Coolants and lubricants	
— Resistant to commercially available coolants and lubricants	Yes; Incl. diesel and oil droplets in the air
Use in stationary industrial systems	
— to biologically active substances according to EN 60721-3-3	Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna); Class 3B3 on request
— to chemically active substances according to EN 60721-3-3	Yes; Class 3C4 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *
— to mechanically active substances according to EN 60721-3-3	Yes; Class 3S4 incl. sand, dust, *
Use on land craft, rail vehicles and special-purpose vehicles	
Use on ships/at sea	
— to biologically active substances according to EN 60721-3-6	Yes; Class 6B2 mold and fungal spores (excluding fauna); Class 6B3 on request
— to chemically active substances according to EN 60721-3-6	Yes; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *
— to mechanically active substances according to EN 60721-3-6	Yes; Class 6S3 incl. sand, dust; *
Usage in industrial process technology	
— Against chemically active substances acc. to EN 60654-4	Yes; Class 3 (excluding trichlorethylene)
— Environmental conditions for process, measuring and control systems acc. to ANSI/ISA-71.04	Yes; Level GX group A/B (excluding trichlorethylene; harmful gas concentrations up to the limits of EN 60721-3-3 class 3C4 permissible); level LC3 (salt spray) and level LB3 (oil)
Remark	

— Note regarding classification of environmental conditions acc. to EN 60721, EN 60654-4 and ANSI/ISA-71.04

* The supplied plug covers must remain in place over the unused interfaces during operation!

Fire resistance	
Pollutant concentrations	
Conformal coating	
• Coatings for printed circuit board assemblies acc. to EN 61086 • Protection against fouling acc. to EN 60664-3 • Military testing according to MIL-I-46058C, Amendment 7 • Qualification and Performance of Electrical Insulating Compound for Printed Board Assemblies according to IPC-CC-830A	Yes; Class 2 for high reliability Yes; Type 1 protection Yes; Discoloration of coating possible during service life Yes; Conformal coating, Class A
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 mm ²	
Conductor cross-section acc. to AWG	
Dimensions	
Width	71.5 mm
Height	90 mm
Depth	60 mm
Other	
Data for selecting a voltage transformer	

last modified:

12/18/2020 