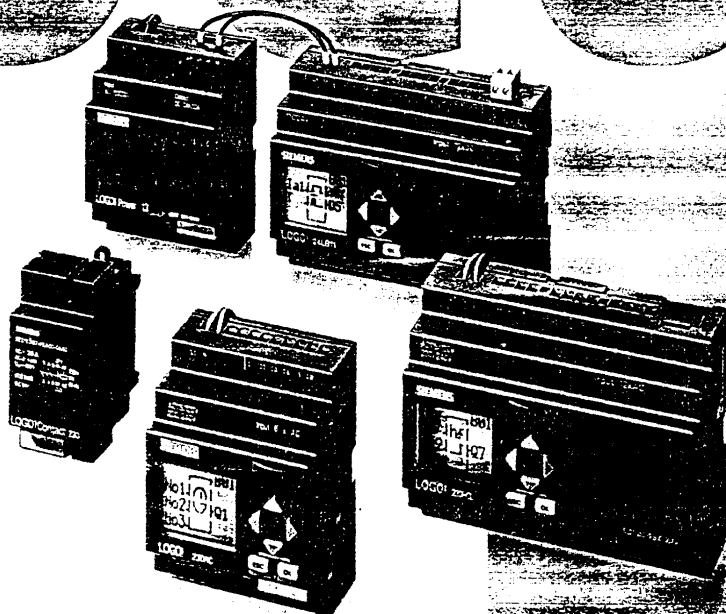


# SIEMENS

**The Original,  
that sets the standard**

# LOGO!



**So easy.**

# The Universal Logic Module that saves you money, time, and space

**Hundreds of thousands of LOGO!s are already in use: When it comes to switching and control, many satisfied users all over the world are already innovative LOGO! customers.**

With LOGO!, customers can solve many of their applications much faster, more conveniently, and above all, more cost-effectively than with conventional technology. LOGO! is a complete solution, is compact in size, and offers a wide range of practical functions for virtually every single application.

## **Save money: One LOGO! instead of a whole array of switching devices!**

The multifunctional logic module is an essential component of Siemens microsystems, and replaces a whole range of conventional switching devices at comparatively low cost. With LOGO!, you can also utilize integrated programming, operator input, and display functions without having to pay extra for them! Smaller control cabinets, the need for fewer accessories, and lower storage costs increase savings even more (as much as 50 % of the total cost!). And because LOGO! is completely wear-resistant, reliability is optimized and maintenance costs kept to a minimum.

## **Save time: LOGO! equals less wiring**

With LOGO! you can save as much as 80 % of the time normally required for maintaining uptime from configuring to maintenance because it is no longer necessary to assemble a large number of different switching elements. All you need is one LOGO! Just press a few keys to program the logic module and customize your solution instead of having to painstakingly wire each function separately.

Alternatively, you can write and test your program quickly on your PC and transfer it to LOGO! via program module or PC cable, as often as you wish, and always error-free. This reduces the start-up time for small quantities and really moves series production into high gear. Free sample programs and a constantly growing collection of self-written, reusable programs help save even more time.

In addition, LOGO! fits into any control cabinet or distributor box and is easy to install because it can simply be snapped onto a standard DIN rail. Furthermore, if you have to change something later, you don't have to do any rewiring. All you have to do is press a button or plug in a program module.

## **Save space: Smaller control cabinets thanks to LOGO!**

LOGO! can save you up to 70% space in both the control cabinet and in the stockroom, so you can plan right from the start to make your cabinets smaller!

With LOGO! you need only four modular spaces to replace the functions of many timers, relays, clocks, and contactor relays on the DIN rail. For example, a compressor control system is reduced to the size of a shoe box. Or you can install LOGO! as a complete control system, with operator keypad and display, and it fits right into the machine frame.



Also, LOGO! proves that you don't have to sacrifice flexibility. On the contrary, with 19 integrated functions, LOGO! still has sufficient expansion options available to make additional hardware unnecessary.

LOGO! clears up your stockroom too; because it doesn't only replace huge numbers of conventional switching devices, which in itself considerably simplifies ordering and stockkeeping, you also save on accessories such as cable channels, cables, DIN rails, mounting hardware, etc. With stock on hand consisting of only a few LOGO! versions, you are ready for any application, whether in the factory or at the customer's place of business.

#### With LOGO! you're on the safe side

With LOGO!, you'll realize savings throughout your operation. Configuring is reduced, installation and start-up becomes quick and easy, wiring costs and malfunctions are significantly reduced - meaning production will be faster. Additionally, function block diagrams can simply be duplicated for serial applications or customized to suit customer requirements. Documentation can be created easily and quickly at the push of a button or click of a mouse. LOGO! makes a lot of things easier, faster, and more cost-efficient.

#### Hundreds of thousands of LOGO!s are already in use

You will be astonished at what you can control and switch with LOGO! The applications that LOGO! can control are virtually limitless!

#### From domestic and commercial applications,

here are some control examples...

- Lighting in apartments, stairwells, shop windows
- Fluorescent lighting circuits
- Blinds, sunshades
- Heating and ventilation systems
- Garage doors
- Alarm and bell systems
- Whirlpools
- Solariums
- Irrigation and sprinkler systems

#### ...to industrial applications,

here are just a few control examples...

- Elevating platforms, lifts
- Cable-welding machines
- Etching and purifying plants
- Industrial saws, planers, bending machines and cutters
- Cutting machines
- Strapping machines
- Boilers
- Heating, cooling, ventilation and air-conditioning systems
- Silo works
- Conveyor systems
- Level measuring systems
- Fractional-horsepower motors, pumps and valves
- Compressors
- Energy management systems
- Load transfer switches
- Access control/parking lot monitoring systems
- Barrier and gate control systems.

#### LOGO! is suitable for all environments - Even on the high seas!

LOGO! meets the highest requirements for vibration resistance, electromagnetic compatibility (EMC), and climatic conditions, such as humidity.

Obviously this makes LOGO! ideal for industrial applications. Thanks to the Radio Interference Suppression Class B rating, it can be used in mixed office and industrial environments. And since LOGO! has all the required approvals, it's also available throughout the world. But that's not all. LOGO! also proves its quality in rough sea environments.

The following international shipbuilding approvals certify this:

- American Bureau of Shipping
- Bureau Veritas
- Det Norske Veritas
- Germanischer Lloyd and
- Lloyds Register of Shipping.

#### In order to set a new standard, old standards must be left behind.

It's with good reason that you can expect from Siemens, the inventors of the original universal logic module, new versions with even more memory capacity, more functionality, as well as more user-friendly handling.

#### We set the standard - and we will continue to do so.

| In this issue  | On page           |
|--|-------------------|
| Wiring? LOGO! solves wiring problems at the push of a button ..... | 4/5               |
| LOGO! Basic .....  | New 04/1999 6/7   |
| LOGO! Long .....   | New 07/1999 8/9   |
| LOGO! Bus .....  | New 07/1999 10/11 |
| LOGO! Roundup  |                   |
| • LOGO! Soft .....   | New 07/1999 12    |
| • LOGO! Soft Comfort .....   | New 04/1999 12    |
| • LOGO! Accessories .....  | 13/14             |
| • SIMATIC S7-200<br>SIPLUS additions .....                         | New 1999 14       |
| • Microsystems/Microsolutions .....                                | 15                |
| LOGO! at a glance .....  | 16                |

# Wiring?

## LOGO! solves wiring problems at the push of a button!

A large number of switching and control applications require unique, customized solutions. This means that you must plan, pre-select and purchase the required components and hardware for a particular application. Contactors, timing relays, and clocks have to be purchased, as must the individual components needed for assembly and wiring.

### LOGO! makes all of this a lot easier, faster, and more convenient!

Siemens has integrated everything you need in the way of tools into LOGO! - including the functions. LOGO! is not only optimally suited to a wide range of standard applications, but can also accommodate individual customer requirements, such as added convenience and energy savings.

### LOGO! makes your work simpler and easier:

1. You describe the task you want solved.
2. You snap LOGO! onto the DIN rail and connect the inputs and outputs.
3. Then you select the required functions and simply combine them with your function block diagram by pressing a key.
4. Finally you carry out testing and start-up.

### Changes? In no time at all with LOGO!

LOGO! will considerably reduce the time and effort involved in carrying out changes, expansions, and updating! All you have to do is combine the integrated functions into a new function block diagram with the push of a button. In this way, "rewiring" is as simple as can be, and requires no costly, time-consuming replacement or additions to existing hardware.

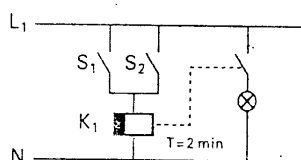
### From circuit diagram to the LOGO! control program

Are you comfortable with traditional ladder logic? If so, the LOGO! function block diagram will present no problem whatsoever. In the function block diagram, straightforward symbols represent the individual functions to be used. You simply combine these ready-to-use functions to form your diagram.

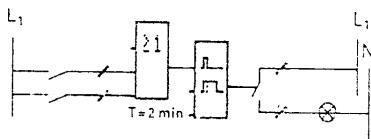
### A practical example of an OFF delay:

After switching off switches S1 and S2, the lamp is to remain on for another 2 minutes.

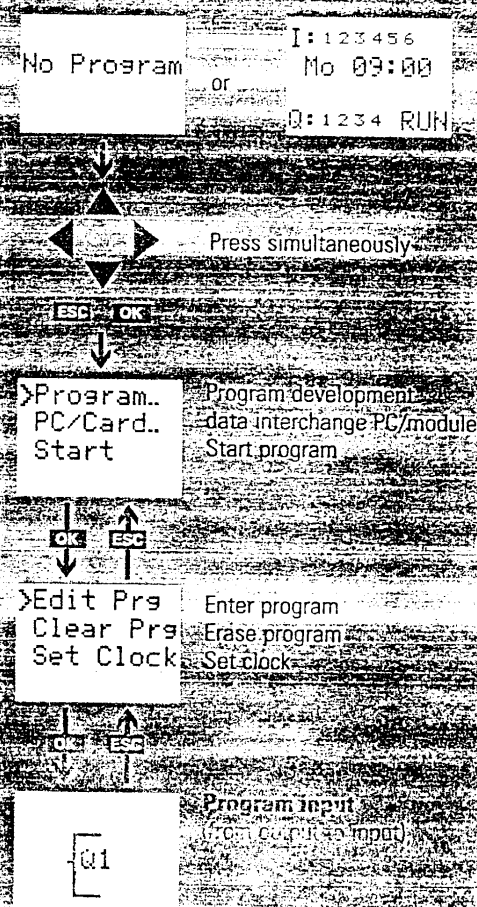
The figure below shows your previous circuit diagram:



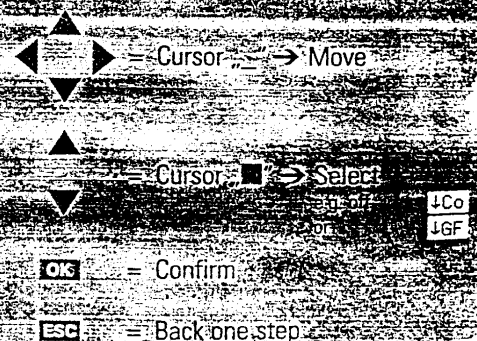
And this is your new function block diagram with LOGO!:



### Overview

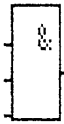


### Note

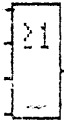


## The 6 integrated basic functions

AND  
series connection



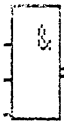
OR  
Parallel connection of  
normally open contacts



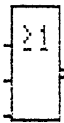
NOT  
Inverter



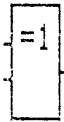
NAND (and not)  
Parallel connection of  
normally open contacts



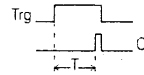
NOR (or not)  
Series connection of  
normally open contacts



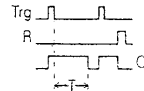
XOR (exclusive or)  
Double changeover  
contact



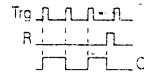
## The 13 integrated special functions



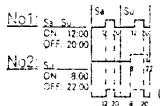
ON delay



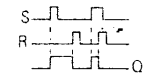
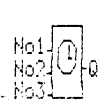
OFF delay



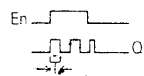
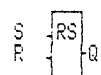
Current impulse



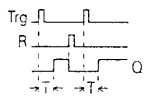
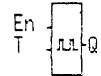
Clock



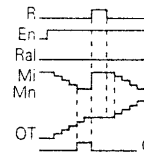
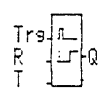
Latching



Clock-pulse generator



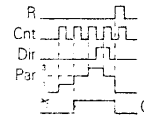
Retentive  
ON delay



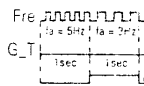
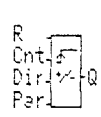
Operating  
hours counter



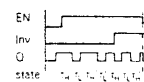
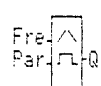
Impulse relay/  
pulse output



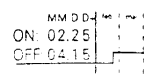
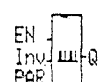
Up and down  
counters



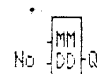
Trigger



Pulse generator



Year timeswitch



# LOGO!

So easy.

New 01/1999

New 01/1999

# LOGO!Basic: The all-inclusive logic module

## Digital inputs

Here, you simply connect maintained-contact switches, momentary-contact switches, sensors, and so on, directly.

## Power supply terminals

Here is where you connect the power supply. For every mains voltage, whether 12 VDC, 24 VDC, 24 VAC or 115 to 230 VAC, there is a suitable LOGO! version.

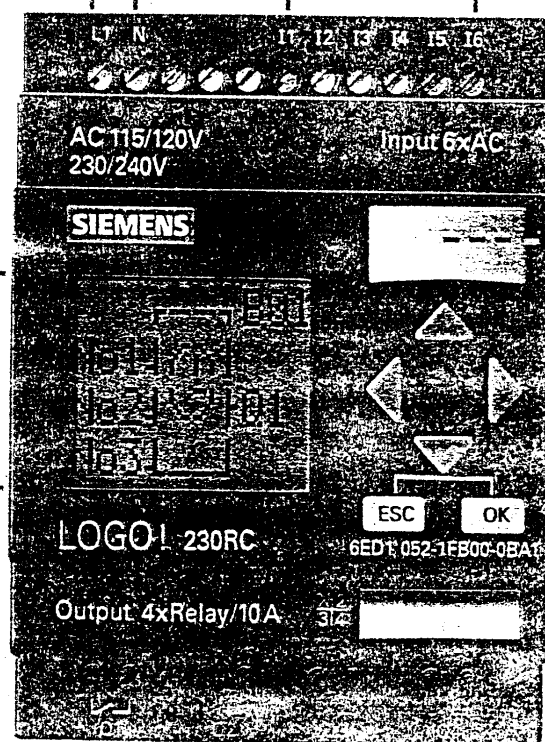
## LC display

When you enter the function block diagram, all steps (e.g. logic operations and setpoints), as well as the integrated ready-to-use basic and special functions (e.g. those for timers, counters, clocks, and so on), are displayed.

During operation, the display includes the states of inputs and outputs and (in the case of the C versions with integrated clock) the day of the week and the time.

## Digital outputs

The loads (e.g. lighting, small motors, valves, etc.) are controlled with a high switching capacity of 10A.



Module illustrated in original size

## LOGO!Basic – Product Brief

- 4 versions
- Compact dimensions  
2.84" x 3.54" x 2.17" (WxHxD)  
72 (4 modular spaces) x 80 x 55 mm
- 19 integrated functions
- 6 inputs/4 outputs
- Integrated clocks with typically 80 hours of reserve power on the LOGO!12RC/24RC/230RC
- Max. 56 functions
- Twelve-month clock
- Asynchronous pulse generator
- Interval time-delay relay
- Trigger
- Integrated retentivity
- 3 operating hours counters
- 2 inputs of 1kHz each on the



### Interface for program module or PC cable

Your function block diagram and the setpoints are always stored in the integrated EEPROM - and are thus safe in the event of a power failure! As an option, you can duplicate programs generated with LOGO! program modules quickly and easily, then use them again for your next application.

And if you want, you can connect LOGO! directly to your PC via cable. The LOGO!Soft programming software allows you to create function block diagrams, conduct simulations, tests, archive, document, and also print.

### Keypad

You enter your function block diagram using the six operator buttons. That is to say, you combine the integrated functions quickly and easily at the push of a button - without any special knowledge or know-how! Clear? Then press "OK" - and your "wiring" chores are complete.

# LOGO!

So easy.

| Technical specifications            | New 04/1993   | New 04/1993                 | New 04/1993   | New 04/1993   |
|-------------------------------------|---|-----------------------------|---|---|
| Inputs                              | LOGO!12RC   | LOGO!24                     | LOGO!24RC   | LOGO!230RC  |
| Input voltage                       | 6<br>DC 12 V  | 6<br>DC 24 V                | 6<br>AC/DC 24 V                                       | 6<br>AC 115, 230 V                                    |
| Permitted range                     | 10.8 V to 15.6 V DC   | 20.4 V to 28.8 V DC         | 20.4 V to 28.8 V DC<br>20.4 V to 26.4 V AC            | 85 V to 265 V AC                                      |
| "0" signal<br>"1" signal            | Max. 4 V DC<br>Min. 8 V DC                                  | Max. 5 V DC<br>Min. 15 V DC | Max. 5 V AC/DC<br>Min. 15 V AC/DC                     | Max. 40 V AC<br>Min. 79 V AC                          |
| Input current                       | 1.5 mA  | 3.0 mA                      | 5.0 mA  | 0.24 mA   |
| Outputs                             | 4 relays  | 4 transistors               | 4 relays  | 4 relays  |
| Continuous current                  | 10 A for resistive load;<br>3 A for inductive load          | 0.3 A                       | 10 A for resistive load;<br>3 A for inductive load    | 10 A for resistive load;<br>3 A for inductive load    |
| Short-circuit protection            | External fuse required                                      | electronic (approx. 1 A)    | External fuse required                                | External fuse required                                |
| Switching frequency                 | 2 Hz for resistive load;<br>0.5 Hz for inductive load       | 10 Hz                       | 2 Hz for resistive load;<br>0.5 Hz for inductive load | 2 Hz for resistive load;<br>0.5 Hz for inductive load |
| Power dissipation                   | typ. 1 W  | typ. 0.8 W                  | typ. 1.5 W  | max. 3 W  |
| Integrated clocks/<br>reserve power | 8/typ. 80 h   | —                           | 8/typ. 80 h   | 8/typ. 80 h   |
| Connecting cables                   | 2 x 1.5 mm <sup>2</sup> , 1 x 2.5 mm <sup>2</sup>           |                             |   |   |
| Ambient temperature                 | 0 to +55 °C   |                             |   |   |
| Storage temperature                 | -40 to +70 °C   |                             |   |   |
| Interference suppression            | to EN 55011 (Limit Class B)                                 |                             |   |   |
| Protection                          | IP 20   |                             |   |   |
| Certification                       | to VDE 0631, IEC 1131, UL, FM, CSA, Ship Building Approvals |                             |   |   |
| Installation                        | on DIN rail 35 mm, 4 modular spaces wide                    |                             |   |   |
| Dimensions (WxHxD)                  | 2.84" x 3.54" x 2.17" = 72 (4 modular spaces) x 90 x 55 mm  |                             |   |   |

Completeness is one of the most convincing features of LOGO!. For this reason, the same extensive range of functions provided on all LOGO!Long versions has also been included in all versions of LOGO!Basic! This provides you with all the flexibility you need. After all, this allows you to combine the 6 basic and 13 special functions in up to 56 function blocks. In this respect, you do not need to worry about clocks, time relays, counters and contactor relays.

In short, LOGO!Basic has everything on-board - in a compact design and at a low price!

# LOGO!Long. Smaller than two LOGO!s – but with twice as many possibilities

## LOGO!Long doubles your capability yet remains compact!

LOGO!Long provides 12 inputs and 8 outputs in one unit - twice as many as the basic LOGO!.

Expansion is no longer a problem if your application requires more inputs and/or outputs. Furthermore you save space, because LOGO!Long needs considerably less space than two LOGO!Basics.

## LOGO!Long also offers additional functions

There's almost twice as much memory! It is now possible to combine not only 30, but 56 functions. Also, Type identifier "C" for the integrated clock is now found in all LOGO! versions (exception: LOGO!24/24L).

The function scope has also increased. The LOGO! versions are now equipped with a twelve-month clock and three five-digit operating hours counters.

New is the "pulse generator" function, which allows you to set different mark-to-space ratios. Beginning immediately, two 1 kHz inputs instead of only one are available for acquiring high-speed pulses in conjunction with the integrated trigger function.

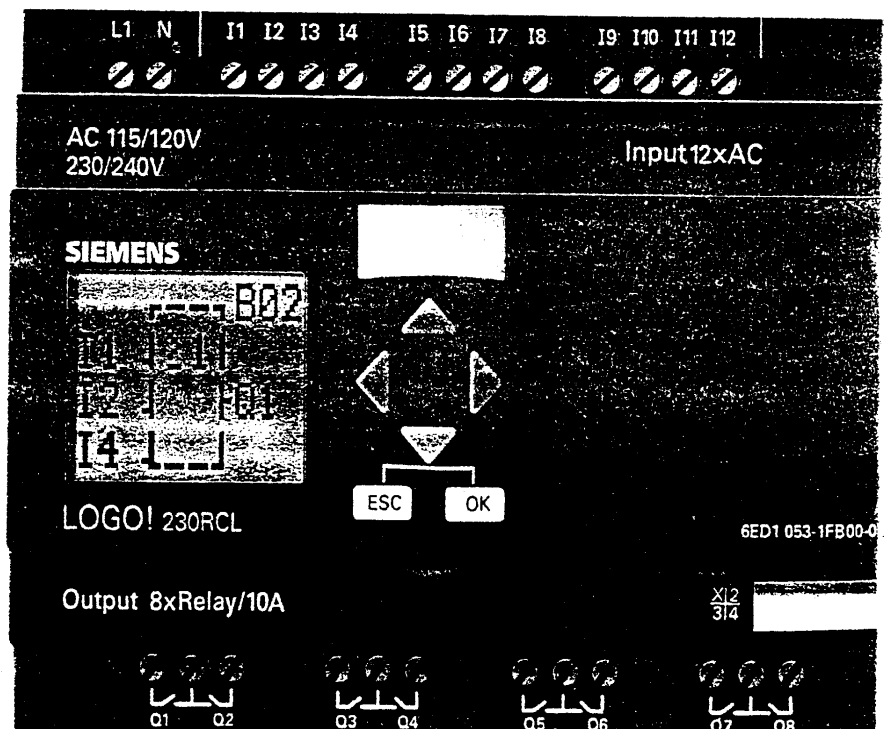
The retentivity for counters, operating hours counters, current rush relays and latching have also been integrated, effective immediately. And if you want to protect your program against copying, you can use the know-how protection feature with the optional program module card "Card red."

Completely new, and with the very same performance characteristics, the LOGO!12RCL for applications in the 12 V range.

Less is sometimes more. This is true of the new LOGO!Basic, LOGO!Long and LOGO!Bus. Fewer versions with more functionality provide greater flexibility for your applications while at the same time reducing warehousing overheads.

## LOGO!Long – Product Brief

- 4 versions
- Compact dimensions  
4.96" x 3.54" x 2.17" (WxHxD)  
126 (7 modular spaces) x  
90x55 mm
- 19 integrated functions
- 12 inputs/8 outputs
- Integrated with type  
80 hours of reserve power  
on the LOGO!230RCL/  
12RCL/24RCL
- Max. 56 functions
- Twelve-month clock
- Asynchronous pulse  
generator
- Integrated retentivity
- 3 operating hours counters
- 2 inputs of 1kHz each on the  
LOGO!12RCL/24L/24RCL
- 4 latches



Module illustrated in original size



# Technical specifications

## Inputs

## Input/ Supply voltage

## Permitted range

## "0" signal

## "1" signal

## Input current

## Outputs

## Continuous current

## Short-circuit protection

## Switching frequency

## Power dissipation

## Integrated clocks/ reserve power

## Connecting cable

## Ambient temperature

## Storage temperature

## Interference suppression

## Protection

## Certification

## Installation

## Dimensions (W x H x D)

New 01/1999

New 01/1999

New 01/1999

New 01/1999

LOGO!12RCL

12

DC 12 V

10.8 V to  
15.6 V DC

Max. 4 V DC

Min. 8 V DC

1.5 mA

8 Relays

Per terminal:  
10 A for  
resistive load;  
3 A for  
inductive load

External  
fuse  
required  
(max. 16 A)

2 Hz for  
resistive load;  
0.5 Hz for  
inductive load

typ. 1.6 W

8/typ. 80h

2 x 1.5 mm<sup>2</sup>, 1 x 2.5 mm<sup>2</sup>

0 to +55°C

-40 to +70°C

to EN 55011 (Limit Value Class B)

IP 20

to VDE 0631, IEC 1131, UL, FM, CSA, Ship Building approvals

on DIN rail 35 mm, 7 modular spaces wide

4.96" x 3.54" x 2.17" = 126 (7 modular spaces) x 90 x 55 mm

LOGO!24L

12

DC 24 V

20.4 V to  
28.8 V DC

Max. 5 V DC

Min. 12 V DC

5 mA

8 Transistor

0.3A

Electronic  
(approx. 1 A)

10 Hz

typ. 1 W

—

LOGO!24RCL

12

DC 24 V

20.4 V to  
28.8 V DC

Max. 5 V DC

Min. 12 V DC

5 mA

8 Relays

Per terminal:  
10 A for  
resistive load;  
3 A for  
inductive load

External  
fuse  
required  
(max. 16 A)

2 Hz for  
resistive load;  
0.5 Hz for  
inductive load

typ. 2.9 W

8/typ. 80h

LOGO!230RCL

12

AC 115,  
230 V

85 V to  
265 V AC

Max. 40 V AC

Min. 79 V AC

2 mA

8 Relays

Per terminal:  
10 A for  
resistive load;  
3 A for  
inductive load

Fuse  
required  
(max. 16 A)

2 Hz for  
resistive load;  
0.5 Hz for  
inductive load

typ. 4.5 W

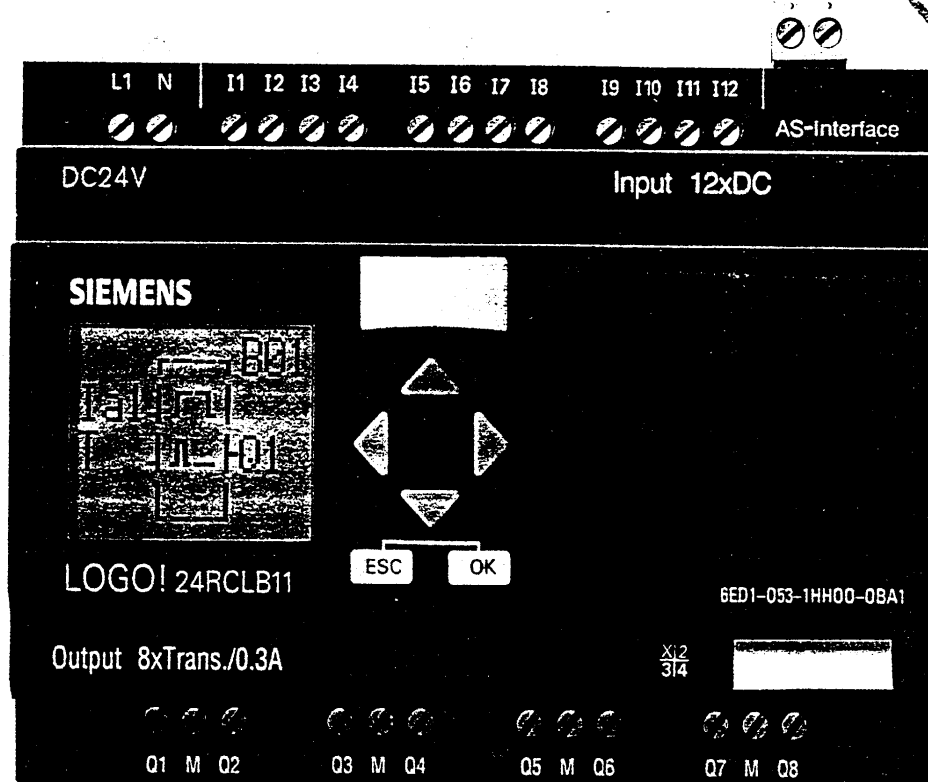
8/typ. 80h

# LOGO!

So easy.

# LOGO!Bus

## as an intelligent and autonomous AS-Interface slave



Module illustrated in original size

### LOGO!Bus: Start communicating!

LOGO! remains easy to handle even when used as an intelligent AS-Interface slave because no additional engineering effort is involved for communications.

### Autonomous when there are bus malfunctions

In their role as an AS-Interface slave, the LOGO!Bus versions serve to exchange process signals and status or control information in networked systems with high-level controllers like the SIMATIC S7-200 micro PLC. Here, LOGO!Bus can also be operated on a stand-alone basis at any time: if bus malfunctions occur, LOGO! simply continues working on its own!

### LOGO!Bus – Product Brief

- 2 versions
- Compact dimensions  
196 x 35 x 27 (W x H x D)  
126 (7 modular spaces) x  
90x55 mm
- 19 integrated functions
- 12 inputs/8 outputs
- Integrated clock with type  
80 hours reserve power
- Max. 56 functions
- Twelve-month clock
- Asynchronous pulse  
generator
- Integrated retentivity
- 3 operating hours counters
- 2 inputs of 1kHz each on the  
LOGO!24RCLB11
- 4 latches

New 01/1999

New 01/1999

#### Technical specifications

Inputs  
AS-i inputs  
Input/  
Supply voltage  
Permitted range  
"0" signal  
"1" signal  
Input current  
Outputs  
AS-i outputs  
Continuous current  
Short-circuit protection  
Switching frequency  
Power dissipation  
Integrated clocks/  
reserve power  
Connecting cables  
Ambient temperature  
Storage temperature  
Interference suppression  
Protection  
Certification  
Installation  
Dimensions (W x H x D)

#### LOGO!24RCLB11

12  
4  
DC 24 V  
20.4 V to  
28.8 V DC  
Max. 5V  
Min. 15 V  
5 mA  
8 relays  
4  
Per terminal:  
10 A for resistive load;  
3 A for inductive load  
External fuse  
required  
(max. 16 A)  
2 Hz for resistive load;  
0.5 Hz for  
inductive load  
typ. 2.9 W  
8/typ. 80h  
2 x 1.5 mm<sup>2</sup>, 1 x 2.5 mm<sup>2</sup>  
0 to +55°C  
-40 to +70°C  
to EN 55011 (Limit Value Class B)  
IP 20  
to VDE 0631, IEC 1131, UL, FM, CSA,  
Ship Building approvals  
on DIN rail 35 mm, 7 modular spaces wide  
4.96" x 3.54" x 2.17"  
126 (7 modular spaces) x 90 x 55 mm

#### LOGO!230RCLB11

12  
4  
AC 115, 230 V  
85 V to  
265 V AC  
Max. 40V  
Min. 79 V  
2 mA  
8 relays  
4  
Per terminal:  
10 A for resistive load;  
3 A for inductive load  
External fuse  
required  
(max. 16 A)  
2 Hz bei resistive load;  
0.5 Hz for  
inductive load  
typ. 4.5 W  
8/typ. 80h

#### New application possibilities

The perfect interaction between master and intelligent slave allows for new applications in many small distributed control tasks. The AS-i bus makes this possible. Actuators, for example, may be signal devices or motors, sensors may be switches, pushbuttons, or proximity switches.

#### Applications

LOGO!Bus offers the full expanded LOGO!Long functionality and also enables data interchange on the AS-i bus.

This is important, for example, when distributed control tasks need to be handled by centralized operator control and monitoring, or if production and conveyor systems are coordinated via a central controller.

#### Smooth data interchange through additional inputs and outputs

Logical that LOGO!Bus has been optimally equipped for these special tasks. It has 12 digital inputs and 8 digital outputs and provides an additional 4 virtual inputs and 4 virtual outputs for seamless data exchange on the AS-i bus (actuator-sensor interface).

# LOGO!

So easy.

# LOGO! Roundup

New 01/1999

## LOGO!Soft

Helps create and process  
function block diagrams right  
on the PC

This optional, multi-language  
programming software runs under  
Windows, and enables conven-  
ient creation, testing, simulation,  
modification, archiving and prin-  
ting of LOGO! control diagrams  
on the PC - even independently  
of LOGO!



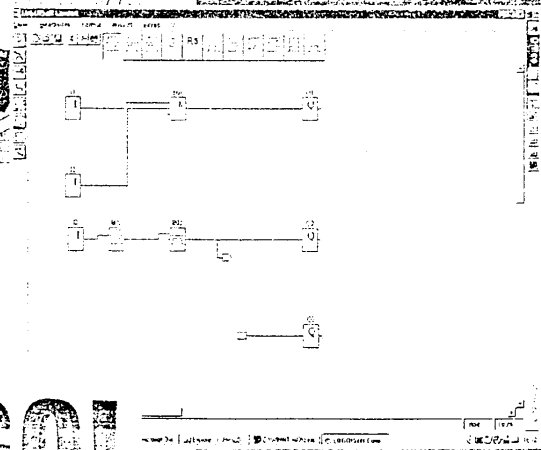
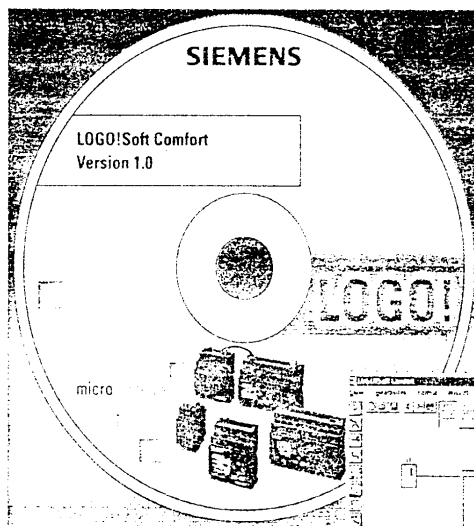
New 04/1999

## LOGO!Soft Comfort Brings you flexibility and user-friendliness

With LOGO!Soft Comfort, you can  
create your control programs more  
efficiently, more conveniently, and  
with greater readability than ever  
before. Programs are created via  
"drag and drop" right on the PC.

Some particularly user-friendly fea-  
tures are off-line program simulation,  
status displays for several functions  
simultaneously, and an option for  
extensive documentation of control  
programs. In addition, this optional  
CD-ROM-based programming soft-  
ware provides extensive, detailed  
on-line help.

The multi-language LOGO!Soft Com-  
fort executes under Windows 95 or  
newer Windows version, has server  
capabilities, and offers you freedom  
and maximum comfort for creating  
your control programs.



# LOGO!

So easy.



#### LOGO! PC cable

**The easiest connection to and from LOGO!**

You can transfer the LOGO! control program to LOGO! and vice versa simply via the LOGO! PC cable. Whenever you want to do so, just connect LOGO! directly to your PC via cable.



#### LOGO! program modules

**Little helpers for the control program**

When it comes to duplication and data backup, you hold all the cards thanks to LOGO! program modules.

**Use card yellow** for quick, easy copying of control programs.

**Use card red** to keep your control program from getting into the wrong hands and to prevent your control program from being displayed, modified, or duplicated.



#### LOGO! Manual

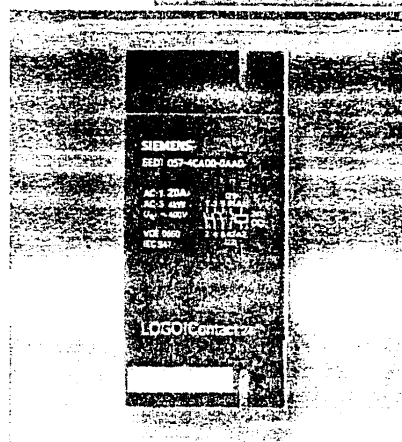
**For everyone who wants the facts in black and white**

The LOGO! manual contains extensive information on how to operate LOGO! It also provides detailed descriptions of all integrated LOGO! functions and, of course, plenty of practical examples. The manual also contains complete technical specifications for all LOGO! versions, information on the AS-Interface, how to compute memory requirements, and much, much more.

## LOGO!Contact The hum-free contactor

With LOGO!Contact you can switch resistive loads up to 20 A and motors up to 4 kW directly and quietly. LOGO!Contact comes in two versions: LOGO!Contact 24 for 24 VDC and LOGO!Contact 230 for 230 VAC switching voltage.

LOGO!Contact is the ideal solution for switching powerful loads in noise-sensitive areas such as hospitals or domestic environments. It is equally suitable for numerous industrial applications.





# microsystems

With our microsystems, the SIMATIC S7-200 micro PLC and the LOGO! universal logic module, we have redefined switching and control in the low-end performance range - and by doing so, we have set the global standard. With the microsystems from Siemens, a new era in electrotechnology and industrial automation has begun!

More and more frequently, innovative users are replacing their own electronics, PLCs from other manufacturers and centralized control solutions, as

well as contactors, relays and clocks, with more flexible solutions based on our microsystems. And for good reason:

Microsystems from Siemens excel thanks to their proverbially easy handling and high degree of functionality - and, of course, through further benefits of both quality and cost. With our microsystems, you can markedly raise the quality of your machines and plant, reduce hardware, space and cabling overheads, speed up the start-up process, and simplify subsequent modifications.

# microsolutions

Under the keyword Microsolutions, Siemens, as a global player, offers you a complete modular system with products which are perfectly attuned to one another. From single components, solutions are made - with everything coming from a single source and available throughout the world.

Thanks to microsolutions, it is possible to set up compact distributed control solutions based on the "plug and play" principle. In addition to SIMATIC S7-200 and LOGO!, the building-block system contains HMI devices, SIMODRIVE drives, SIRIUS I.v. switchgear, AS-i modules (such as actuators and sensors), and easily inte-

grated components from other manufacturers.

A microsolution results when actuators, operator control equipment or autonomous intelligent LOGO! slaves are linked by a master controller via AS-i I/O components (such as proximity switches or valves) to form a cost-optimized, function-optimized system.

And everything you need is available from a single source. The advantage: from consultation to ordering and from delivery to start-up, you will be able to produce the optimum solution from a single source provider!

# LOGO! at a glance

## LOGO! Basic versions

New 04/1999

6 inputs, 4 outputs;  
4.96" x 3.54" x 2.17" = 72 (4 modular spaces) x 90 x 55 mm (WxHxD)  
R: Relay outputs, C: Clock

|         |                     |
|---------|---------------------|
| • 12RC  | 6ED1 052-1BB00-0BA1 |
| • 24    | 6ED1 052-1CA00-0BA1 |
| • 24RC  | 6ED1 052-1HB00-0BA1 |
| • 230RC | 6ED1 052-1FB00-0BA1 |

## LOGO! Long versions

New 01/1999

12 inputs, 8 outputs;  
4.96" x 3.54" x 2.17" = 126 (7 modular spaces) x 90 x 55 mm (WxHxD)  
R: Relay outputs, C: Clock, L: Long

|          |                     |
|----------|---------------------|
| • 12RCL  | 6ED1 053-1BB00-0BA1 |
| • 24L    | 6ED1 053-1CA00-0BA1 |
| • 24RCL  | 6ED1 053-1HB00-0BA1 |
| • 230RCL | 6ED1 053-1FB00-0BA1 |

## LOGO! Bus versions

New 01/1999

12 inputs, 8 outputs;  
4.96" x 3.54" x 2.17" = 126 (7 modular spaces) x 90 x 55 mm (WxHxD)  
R: Relay outputs, C: Clock, L: Long, B: Bus

|             |                     |
|-------------|---------------------|
| • 24RCLB11  | 6ED1 053-1HH00-0BA1 |
| • 230RCLB11 | 6ED1 053-1FH00-0BA1 |

## LOGO! Accessories (optional)

|                    |                     |
|--------------------|---------------------|
| • Soft             | 6ED1 058-0AA00-0BA1 |
| • Soft Comfort     | 6ED1 058-0BA00-0YC1 |
| • PC Cable         | 6ED1 057-1AA00-0BA0 |
| • Card yellow      | 6ED1 056-1BA00-0AA0 |
| • Card red         | 6ED1 056-4BA00-0AA0 |
| • Manual           | 6ED1 050-1AA00-0AE1 |
| • Contact 24       | 6ED1 057-4CA00-0AA0 |
| • Contact 230      | 6ED1 057-4EA00-0AA0 |
| • Power (12V/1.9A) | 6EP1 321-1SH01      |
| • Power (12V/4.5A) | 6EP1 322-1SH01      |
| • Power (24V/1.3A) | 6EP1 331-1SH01      |
| • Power (24V/2.5A) | 6EP1 332-1SH41      |

New 01/1999

New 04/1999

New 02/1999

New 03/1999

## LOGO! Starter-Kit

|            |                     |
|------------|---------------------|
| • News-Box | 6ED1 057-3AA00-0BA5 |
|------------|---------------------|

New 06/1999

Product designation Siemens Order No.

Siemens AG  
Automation & Drives  
P.O. Box 4848  
D-90327 Nuremberg

Siemens Aktiengesellschaft

LOGO! is available everywhere - even in your area:

At all Siemens distributors, selected electrical equipment wholesalers, and via catalog/mail order.

## Need more information?

Contact our Infoservice via post or fax

The following publications are available on request free of charge from:

Siemens AG, Infoservice, AD/Z 461,  
P.O. Box 2348, D-90713 Fürth

Fax: ++49/911/978-3321

- ☐ "GO! Special Edition," the collected applications of our customers for bright switching and control
- ☐ "SIMATIC S7-200 Microsystems" the new brochure for the Micro PLC family
- ☐ "SIMATIC S7-200 Success Story," the application reports on Micro PLCs
- ☐ "SIMATIC Services," with info on the SIMATIC card for on-line shopping
- ☐ "LOGO! Power 1.3A and 2.5A" the leaflet for the perfect power supply
- ☐ "SIPLUS additions," the info sheet for the use of equipment under extreme conditions

## On the Web - 24 hours on-line

It goes without saying that we are also available to you on the World Wide Web. You can find the latest information on news and target dates, products and solutions (such as free software, tips and tricks, applications), go shopping on line, and much more under:

[www.ad.siemens.de/logo](http://www.ad.siemens.de/logo)

Great news for everyone starting into the new dimension of LOGO! microsystems:

New 06/1999

**The LOGO! News-Box.** The complete Starter-Kit containing everything you need to start saving money, time and space:

- LOGO! 230RC
- LOGO! PC cable
- LOGO! Soft version 3.0
- LOGO! Manual and microsystems
- Tips & Tricks CD-ROM

Even better news the LOGO! News-Box package is available at a very attractive kick-off price.

New users

emphasize

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