

CARLO GAVAZZI
Automation Components

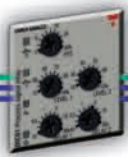


*Monitoring
in line with
your applications*



Control





When technology and experience meet your expectations



Application Durability



Simplified Set-up



Inventory Reduction



Cost Saving



User Friendly



Maximizing Productivity



Time Saving



Space Optimization

Monitoring is the art of knowledge!

If you are in control of your system parameters, everything properly runs and your downtime and maintenance cost decrease. Our people at Carlo Gavazzi learned this fundamental lesson through our thirty years experience designing and manufacturing monitoring relays. The most sophisticated measuring techniques, together with the highest attention to make the unit really easy to set up, make Carlo Gavazzi Monitoring Relays the optimum solution wherever electrical parameters have to be measured.

The family is available, with the same functions, in **three different housings**: the standard DIN-rail one, perfect for industrial panels, the Plug-in housing to allow fast and safe replacement (without rewiring), the Mini-D housing for DIN-rail mounting, which can be mounted in electrical panels as well as in smaller ones (buildings or special industrial applications).



The standard high-performance DIN-rail housings



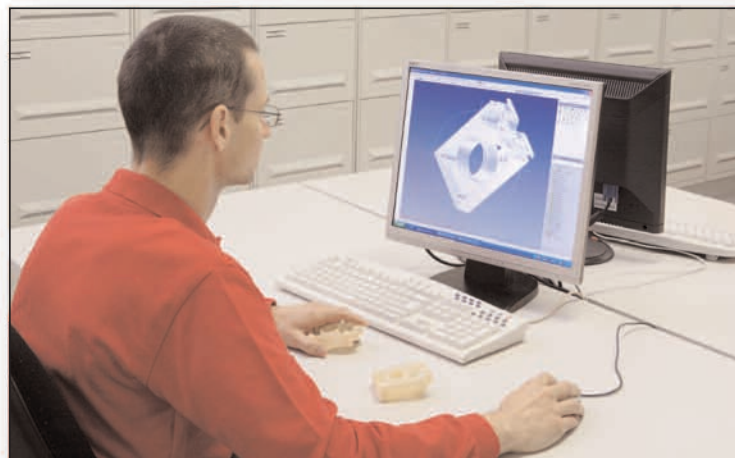
Plug-in versions for maximum flexibility



The small norm DIN-rail housing for the new challenges

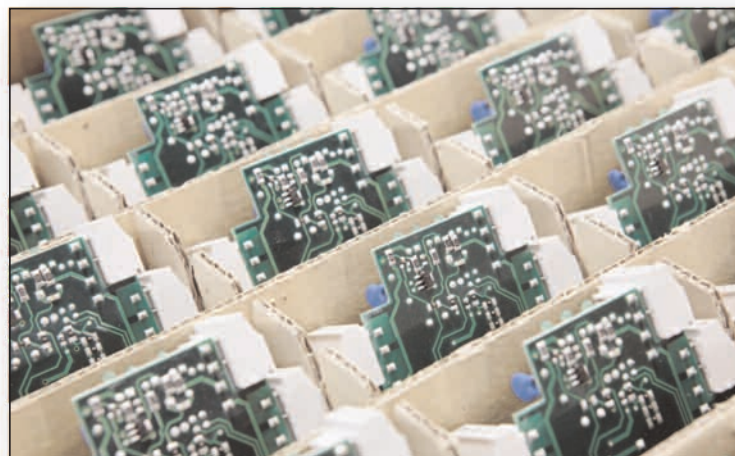
Not all applications are the same... so we are always looking for new solutions

Our way of developing products always starts from listening. We begin from the final application, meeting people to understand the critical issue. We design the products so that they really fulfill or exceed the monitoring needs. The final result is outstanding performance.



A guarantee of reliability by our specialised manufacturing centers

Our monitoring relays are manufactured in accordance to the latest and most reliable techniques, and every test is performed to deliver a product that assures customers satisfaction.



A certified quality

The **high quality** of production is guaranteed by the ISO9001 certification of the factory, as well by the continuous tests and improvements of the production processes. CE tests, UL and CSA approvals, mean that three independent bodies have tested and approved the units, a statement to the level of development and production of our products. Some of them are also provided with other specific and high demanding approvals, like Germanischer Lloyd.



The easy way to find your solution

Select your Function Level

Select your Measured Value	SINGLE FUNCTIONS		EXTENDED FUNCTIONS		FULL FUNCTIONS	
	React when the setpoint is overtaken or for major failures (phase sequence and loss)		Delay time, more ranges, TRMS measurement and more		For complete monitoring Two setpoints Two output relays	
Current	DIA01 DIA53*	PIA01	DIB01 DIB02 DIB71*	PIB01 PIB02	DIC01	PIC01
Voltage	DUA01 DUA52* DUA55*	PUA01	DUB01 DUB02 DUB03 DUB71*	PUB01 PUB02 PUB03	DUC01	PUC01
3-phase	DPA01 DPA02 DPA03 DPA51* DPA53*	PPA01 PPA02 PPA03 DPA71* DPA55*	DPB01 DPB02 DPB51* DPB71*	PPB01 PPB02	DPC01 DPC02 DPC71*	PPC01 PPC71
Temperature	DTA01 DTA02	PTA01 PTA02				
Frequency			DFB01	PFB01	DFC01	
Power	DWA01	PWA01	DWB01 DWB02 DWB03	PWB01 PWB02 PWB03		
Others	DLA71*	DLA73*				

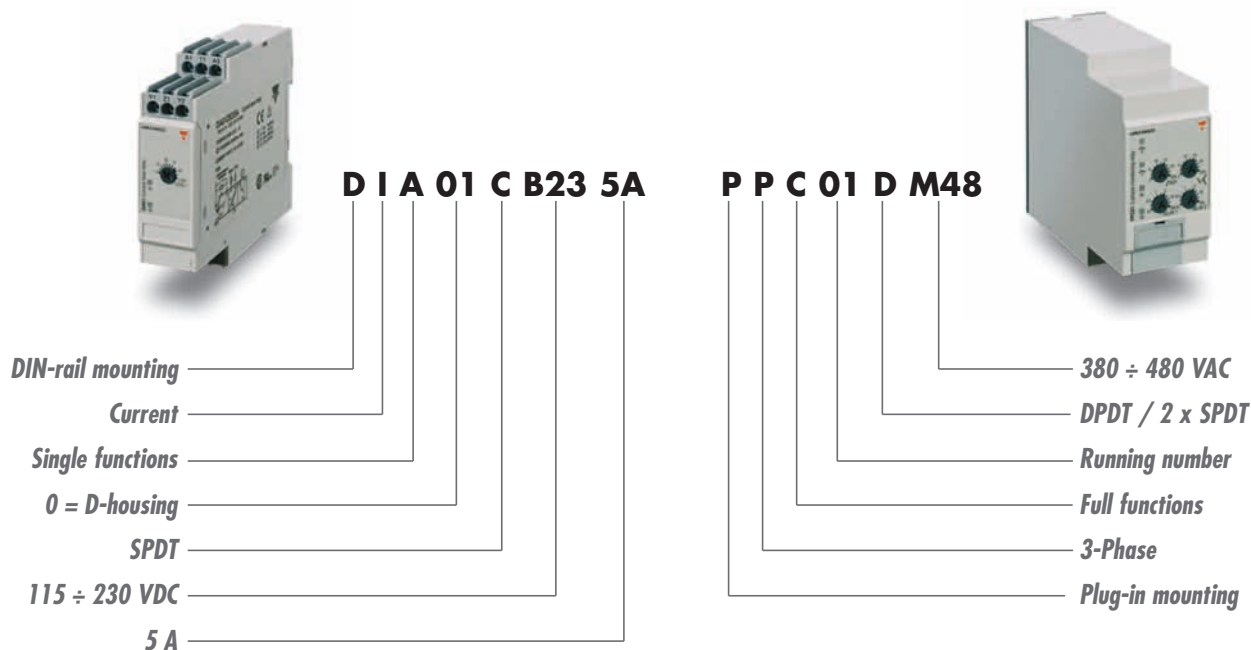
First letter: **D** = for DIN-rail - **P** = for plug-in - * are Mini-D housings

Find more technical information on "www.ProductsOnline.info"

You can find all the details you need to develop your project on our website, in the Products Online page. Our documentation is available in English, French, German, Spanish, Danish and Italian.



How to dial our item code



The output - add the code:

C	SPDT relay
D	DPDT relay or 2xSPDT relays
S	solid state
T	3xSPST relays

The power supply - add the code:

724	24 VDC
748	48 VDC
B48	24 & 48 VAC
B23	115 & 230 VAC
M44	208 to 480 VAC
M23	208 to 240 VAC
M24	24 to 240 VAC
M48	380 to 480 VAC
M60	400 to 600 VAC
M69	600 to 690 VAC

The range - add the code:

5MA	1, 2 & 5 mA AC/DC
50MA	10, 20 & 50 mA AC/DC
500MA	100, 200 & 500 mA AC/DC
5A	1, 2 & 5 A AC/DC
10A	10 A AC/DC
20A	20 A AC (DIA53 only)
50A	50 A AC (DIA53 only)
100A	100 A AC (DIA53 only)
150MV	60 & 150 mV (DIB02, PIB02)
10V	1, 2, 5 & 10 V AC/DC
500V	20, 50, 200 & 500 V AC/DC
AV0	combined ranges



Monitoring Solutions for Water and Pumps Applications

Your automation challenge

What happens to my pumps if the water is over and the system goes on running? What if the phase sequence is not correct or one phase fails?



Our solution

The lack of human surveillance on pumps may produce major problems due to incorrect phase sequence. **DPA01**, **PPA01** and **DPA51** detect the phase sequence and loss along with the voltage regenerated by the pump's motor: the maintenance department can be easily and promptly notified before a system failure occurs. Besides, pumps load monitoring allows to recognize if the pump is dry or blocked by some materials. **DIB01**, **PIB01** or **DIB71** are a solution for overload monitoring; **DWB01**, **PWB01** for dry running and overload protection; **DWB02**, **PWB02** offer full protection.



DWB01



DIB71



DPA51

Our product proposal

- **DPA01**, **PPA01**, **DPA51**: 3-Phase sequence and loss monitoring relays
- **DWB01/02**, **PWB01/02**: 3-Phase $\cos\phi$, active power monitoring relays
- **DIB01**, **PIB01**, **DIB71**: current relays

Your automation challenge

Water and pumps markets need components with high reliability, compact size and easy set-up. In case of pumps alternating, sometimes the function is carried out by dedicated boards or PLCs. Very often the control panel is so simple that just the pump alternating relay is used.



Our solution

DLA71 and **DLA73** are specifically made for pumping system where two (or three) pumps have to work in parallel: they manage the signal from the inputs (floaters, pressure switches, etc.), sequentially activating the working cycle of the pumps and fairly splitting their starts.



DLA71

Our product proposal

- **DLA71**: pumps alternating relay (**DLA71...2P** for 2 pumps, **DLA71...3P** for 3 pumps)
- **DLA73**: pumps alternating relay for 2 pumps

Monitoring Solutions for

Energy Generation Applications

Your automation challenge

Since there is an increased use of generators in many applications, it's absolutely necessary that the mains from the generator are of high quality to prevent damages to the connected load. Besides, in some countries the mains electrical parameters have to be according to specific regulations.



Our solution

Carlo Gavazzi's 3-phase monitoring relays, **DPC01** and **PPC01**, can guarantee that the voltage levels of all the phases (if necessary even the phase-neutral voltages) are correct. With **DPC02** the user also knows if the speed of the generator (that is the frequency of the mains) is correct. If the generation system is used to sell energy to the electric company, **DPC02** can be used as interface relay to separate the generator from the mains if this is required. Finally **DUA52** can monitor the voltage level of the start-up battery.



DPC01

DPC02

DUA52

Our product proposal

- **DPC01**, **PPC01**: 3-phase mains quality relay
- **DPC02**: 3-phase voltage and frequency monitoring relay
- **DUA52**: battery level monitoring relay

Telecommunication

Your automation challenge

If a Base Station for mobile phones isn't correctly supplied, the communication will be interrupted.

Usually the Base Station is provided with a power generator that has to be connected when the normal power supply has some deflection.



Our solution

For this application, **DUA55** (1-phase) or **DPA55** (3-phase) are the ideal solution: they detect if all the phases are within the voltage window set limit and the 3-phase monitoring relay recognizes if the phases have the correct sequence, before connecting the generator. If one of the above mentioned conditions fails, the monitoring relay sends an alarm signal to the system. If you need to separately set the upper and lower voltage limits, or a delay time, the perfect solution is **DPB71**.



DPA55

DPB51

DPB71

Our product proposal

- **DUA55**: 1-phase window monitoring relay
- **DPA55**: 3-phase window monitoring relay
- **DPB51**, **DPB71**: 3-phase over and under voltage relays





Monitoring Solutions for

Material Handling

Your automation challenge

All the industrial applications where sophisticated mechanical machines are used to manufacture, package, mix... require high quality mains. A faulty system can cause poor product results.



Our solution

Carlo Gavazzi's **DPB01**, **PPB01** or **DPB71** keep the mains fully monitored, to prevent from loose or dangerous working mode. Furthermore, the most important amperages of the process can be easily monitored by our **DIA53**, a 17.5 mm DIN-rail unit capable of directly measuring up to 100 A and providing a transistor output with no need of auxiliary voltage.



DPB01



DIA01



DIA53

Our product proposal

- **DIA53**: over current relay
- **DIA01** and **PIA01**: over current relays
- **DPB01** and **PPB01**, **DPB71**: 3-phase over and under voltage relays

Food and Beverage

Your automation challenge

Industrial plants using advanced machine for food & beverage require to quickly stop the manufacturing process in case of phase loss or to protect the motor from overload.



Our solution

DPA01 or the new **DPB51** (mini DIN-rail housing, perfect to be mounted on the front panel saving a lot of space) allow to stop the machineries in case of phase loss or wrong phase sequence (or under/over voltage with **DPB51**). Besides, **DIB01100A** (for current monitoring) or **DWB01** (for power factor control) can be used in order to detect an overload.



DPA01



DIB01



DWB01

Our product proposal

- **DPA01**: 3-phase sequence and loss monitoring relay with regenerated voltage detection.
- **DPB51**: 3-phase over and under voltage relay
- **DIB01100A**: over current relay
- **DWB01**: 3-phase cosφ monitoring relay



Monitoring Solutions for

Lift

Your automation challenge

For lifts, escalators and all people moving equipment, the direction of the motion must be 100% correct. Phase sequence relays are a fast, reliable and easy to maintain solution. Additionally with an overload, the motor temperature can damage and eventually destroy the motor itself.



Our solution

In addition to the phase sequence monitoring, **DPA03** detects the voltage regenerated by the motor in case of phase loss. This means that you'll reduce the risk that your motor won't overheat, burn up or cause danger to the people. **DTA01**, **DTA02**, **PTA01** and **PTA02**, our thermistor relays, measure the temperature inside the motor, allowing a prompt disconnection in case of overheating.



DTA01



DPA03

Our product proposal

- **DPA03**: 3-Phase sequence and loss monitoring relay with undervoltage detection
- **DTA01**: thermistor relay for motor temperature protection

HVAC

Your automation challenge

Correct motor direction means higher efficiency of the compressor (in some cases incorrect rotation means immediate breakdown). Furthermore, starting more than one compressor at the same time can cause a high inrush current with several problems, such as EMC noise or low mains voltage.



Our solution

Our smallest multivoltage phase sequence and loss relay, **DPA51**, prevents from incorrect rotation direction as well as from single phasing, while **DPA53**, with undervoltage setpoint, can let the compressor work at its best. Finally, **DAC51**, the smallest star-delta timer on the market, prevents from inrush currents. Carlo Gavazzi multirange and multivoltage modular timers optimize the space in the cabinet.



DAC51



DPA51

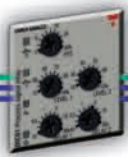


DPA53

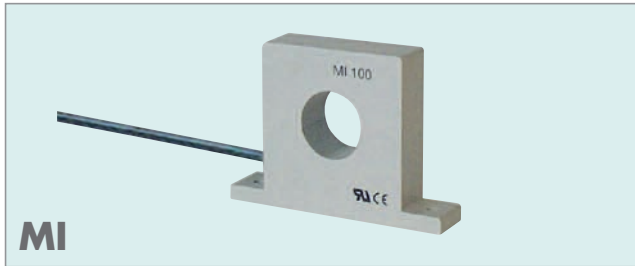
Our product proposal

- **DPA51**: 3-Phase sequence and loss monitoring relay
- **DPA53**: 3-Phase sequence and loss monitoring relay with undervoltage detection
- **DAC01**, **PAC01**, **DAC51**: star-delta timers





Accessories: Current Transformers



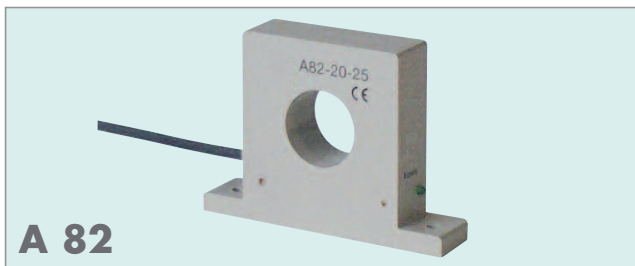
MI

AC current transformers for 5, 20, 100, 500 AAC. Output voltage (0.4-4 Vp) is proportional to the measured current. To be used with: DUA01/PUA01, DIB02/PIB02, DIC01/PIC01, DWA01/PWA01, DWB01/PWB01, DWB02/PWB02, DWB03/PWB03.



MP3

3-phase transformers for 5, 20, 100 or 500 AAC. Output voltage (0.4-4 Vp) is proportional to the highest measured current. To be used with: DUA01/PUA01, DIB02/PIB02, DIC01/PIC01.



A 82

AC current metering transformer for 25, 50, 100, 250 or 500 AAC. The transformer outputs are 0-20 mADC or 4-20 mADC in accordance with IEC 60381. A green LED indicates that power supply is ON. To be used with: DIB01/PIB01, DIC01/PIC01 or directly connected to a PLC.



E 83

AC current metering transformer with 7 knob selectable ranges. The transformer output is 4-20 mADC in accordance with IEC 60381. A green LED indicates that power supply is ON. 12 mm hole and the built-in current transformer make it suitable for most applications and easy to install. For mounting on DIN-rail or directly on surface by screws.



All our monitoring relays references

CURRENT RELAYS

DIA01C7245A	DIB01C72410A
DIA01C7485A	DIB01C74810A
DIA01CB485A	DIB01CB4810A
DIA01CB235A	DIB01CB2310A
DIA53S72420A	DIB01CM24100A
DIA53S72420AF	DIB71CD485MA
DIA53S72450A	DIB71CB235MA
DIA53S72450AF	DIB71CD4850MA
DIA53S724100A	DIB71CB2350MA
DIA53S724100AF	DIB71CD48500MA
DIB01C7245MA	DIB71CB23500MA
DIB01C7485MA	DIB71CD485A
DIB01CB485MA	DIB71CB235A
DIB01CB235MA	DIB02C724150MV
DIB01C72450MA	DIB02C748150MV
DIB01C74850MA	DIB02CB48150MV
DIB01CB4850MA	DIB02CB23150MV
DIB01CB2350MA	DIC01D724AV0
DIB01C724500MA	DIC01D748AV0
DIB01C748500MA	DIC01DB48AV0
DIB01CB48500MA	DIC01DB23AV0
DIB01CB23500MA	PIA01C7245A
DIB01C7245A	PIA01C7485A
DIB01C7485A	PIA01CB485A
DIB01CB485A	PIA01CB235A
DIB01CB235A	PIB01C7245MA

DIB01C72410A	PIB01C7485MA
DIB01C74810A	PIB01CB485MA
DIB01CB4810A	PIB01CB235MA
DIB01CB2310A	PIB01C72450MA
DIB01CM24100A	PIB01C74850MA
DIB71CD485MA	PIB01CB4850MA
DIB71CB235MA	PIB01C724500MA
DIB71CD4850MA	PIB01C748500MA
DIB71CB2350MA	PIB01CB48500MA
DIB71CD48500MA	PIB01CB23500MA
DIB71CB23500MA	PIB01C7245A
DIB71CD485A	PB01C7485A
DIB71CB235A	PIB01CB485A
DIB02C724150MV	PIB01CB235A
DIB02C748150MV	PIB01C72410A
DIB02CB48150MV	PIB01C74810A
DIB02CB23150MV	PIB01CB4810A
DIC01D724AV0	PIB01CB2310A
DIC01D748AV0	PIB02C724150MV
DIC01DB48AV0	PIB02C748150MV
DIC01DB23AV0	PIB02CB48150MV
PIA01C7245A	PIB02CB23150MV
PIA01C7485A	PIC01C724AV0
PIA01CB485A	PIC01C748AV0
PIA01CB235A	PIC01CB48AV0
PIB01C7245MA	PIC01CB23AV0

PIB01C7485MA	DPA01CM44
PIB01CB485MA	DPA01CM60
PIB01CB235MA	DPA01CM69
PIB01C72450MA	DPA01DM23
PIB01C74850MA	DPA01DM48
PIB01CB4850MA	DPA02CM23
PIB01C724500MA	DPA02CM40
PIB01C748500MA	DPA03CM23
PIB01CB48500MA	DPA03CM48
PIB01CB23500MA	DPA03CM69
PIB01C7245A	DPA51CM44
PB01C7485A	DPA71DM23
PIB01CB485A	DPA71DM48
PIB01CB235A	DPA53CM23
PIB01C72410A	DPA53CM48
PIB01C74810A	DPA55CM44
PIB01CB4810A	DPB01CM23
PIB01CB2310A	DPB01CM23N
PIB02C724150MV	DPB01CM48
PIB02C748150MV	DPB01CM48N
PIB02CB48150MV	DPB01CM48NW4
PIB02CB23150MV	DPB01CM48W4
PIC01C724AV0	DPB02CM23
PIC01C748AV0	DPB02CM48
PIC01CB48AV0	DPB51CM44
PIC01CB23AV0	DPB71CM23
	DPB71CM48
	DPC01DM23
	DPC01DM48
	DPC01DM69

3-PHASE RELAYS

DPA01CM44	DPC01DM11400HZ
DPA01CM60	DPC01DM23400HZ
DPA01CM69	DPC01DM48400HZ
DPA01DM23	DPC01DM49400HZ
DPA01DM48	DPC01DM69400HZ
DPA02CM23	DPC02DM23
DPA02CM40	DPC02DM48
DPA03CM23	DPC02DM49
DPA03CM48	DPC02DM69
DPA03CM69	DPC71DM23
DPA51CM44	DPC71DM48
DPA71DM23	PPA01CM44
DPA71DM48	PPA01DM23
DPA53CM23	PPA01DM48
DPA53CM48	PPA02CM23
DPA55CM44	PPA02CM40
DPB01CM23	PPA03CM23
DPB01CM23N	PPA03CM48
DPB01CM48	PPB01CM23
DPB01CM48N	PPB01CM23N
DPB01CM48NW4	PPB01CM48
DPB01CM48W4	PPB01CM48N
DPB02CM23	PPB01CM48NW4
DPB02CM48	PPB01CM48W4
DPB51CM44	PPB02CM23
DPB71CM23	PPB02CM48
DPB71CM48	PPC01DM23
DPC01DM23	PPC01DM48
DPC01DM48	PPC71DM23
DPC01DM69	PPC71DM48

VOLTAGE RELAYS

DUA01C724500V	DUC01D748500V
DUA01C748500V	DUC01DB48500V
DUA01CB48500V	DUC01DB23500V
DUA01CB23500V	PUA01C724500V
DUA52C724	PUA01C748500V
DUA52C748	PUA01CB48500V
DUA55CM44	PUA01CB23500V
DUB01C72410V	PUB01C72410V
DUB01C74810V	PUB01C74810V
DUB01CB4810V	PUB01CB4810V
DUB01CB2310V	PUB01CB2310V
DUB01C724500V	PUB01C724500V
DUB01C748500V	PUB01C748500V
DUB01CB48500V	PUB01CB48500V
DUB01CB23500V	PUB01CB23500V
DUB71CB4810V	PUB02CT23
DUB71CB2310V	PUB03CW24
DUB71CB48500V	PUC01C724500V
DUB71CB23500V	PUC01C748500V
DUB02CT23	PUC01CB48500V
DUB03CW24	PUC01CB23500V
DUC01D724500V	

DUC01D748500V	DWA01CM235A
DUC01DB48500V	DWA01CM485A
DUC01DB23500V	DWB01CM2310A
PUA01C724500V	DWB01CM4810A
PUA01C748500V	DWB01CM6910A
PUA01CB48500V	DWB02CM2310A
PUA01CB23500V	DWB02CM4810A
PUB01C72410V	DWB02CM6910A
PUB01C74810V	DWB03CM2310A
PUB01CB4810V	DWB03CM4810A
PUB01CB2310V	DWB03CM6910A
PUB01C724500V	PWA01CM235A
PUB01C748500V	PWA01CM485A
PUB01CB48500V	PWB01CM2310A
PUB01CB23500V	PWB01CM4810A
PUB02CT23	PWB02CM2310A
PUB03CW24	PWB02CM4810A
PUC01C724500V	PWB03CM2310A
PUC01C748500V	PWB03CM4810A
PUC01CB48500V	
PUC01CB23500V	

POWER RELAYS

DWA01CM235A	DTA01C024
DWA01CM485A	DTA01C724
DWB01CM2310A	DTA01C115
DWB01CM4810A	DTA01C230
DWB01CM6910A	DTA02C024
DWB02CM2310A	DTA02C724
DWB02CM4810A	DTA02C115
DWB02CM6910A	DTA02C230
DWB03CM2310A	PTA01C024
DWB03CM4810A	PTA01C724
DWB03CM6910A	PTA01C115
PWA01CM235A	PTA01C230
PWA01CM485A	PTA02C024
PWB01CM2310A	PTA02C724
PWB01CM4810A	PTA02C115
PWB02CM2310A	PTA02C230
PWB02CM4810A	
PWB03CM2310A	
PWB03CM4810A	

TEMPERAT. RELAYS

DTA01C024	DFB01CM24
DTA01C724	DFC01DB48
DTA01C115	DFC01DB23
DTA01C230	PFB01CM24
DTA02C024	
DTA02C724	
DTA02C115	
DTA02C230	
PTA01C024	
PTA01C724	
PTA01C115	
PTA01C230	
PTA02C024	
PTA02C724	
PTA02C115	
PTA02C230	

FREQUEN. RELAYS

DFB01CM24
DFC01DB48
DFC01DB23
PFB01CM24

OTHERS RELAYS

DLA71DB482P
DLA71DB232P
DLA71TB483P
DLA71TB233P
DLA73TB482P
DLA73TB232P

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Automation Hong Kong Ltd.
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OUR PRODUCTION SITES

Carlo Gavazzi Industri A/S
Hadsten - **DENMARK**

Carlo Gavazzi Ltd
Zejtun - **MALTA**

Carlo Gavazzi Controls SpA
Controls Division
Belluno - **ITALY**

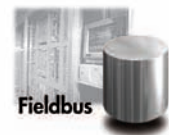
Carlo Gavazzi Controls SpA
Sensors Division
Castel Maggiore (BO) - **ITALY**

Carlo Gavazzi Industri
Kaunas - **LITHUANIA**

Carlo Gavazzi Automation
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