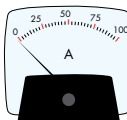
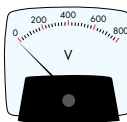
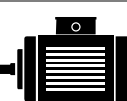

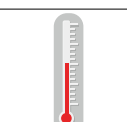
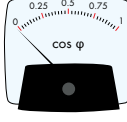






Select your function level

	Single function		Dual function		Extended		Full function		
Measured value	Single setpoint and/or major failure reaction (phase sequence or loss)		Dual setpoints, adjustable delay, TRMS, other functions		Dual setpoints, dual delays, 2 outputs, extended functions		Digital setting, dual measurements, 10 setpoints, 2 outputs, NFC		
 Current	DIA01 DIA53*	PIA01	DIB01 DIB02 DIB71*	PIB01 PIB02	DIC01	PIC01	DPD		
 Voltage	DUA01 DUA52* DUA55*	PUA01	DUB01 DUB02 DUB03 DUB71* DUB72*	PUB01 PUB02 PUB03	DUC01	PUC01			
 3-phase	DPA01 DPA02 DPA03 DPA51* DPA52* DPA53*	PPA01 PPA02 PPA03 DPA71* DPA55*	DPB01 DPB02 DPB51* DPB52*	PPB01 PPB02	DPC01 DPC02 DPC71*	PPC01 PPC71			
 Frequency			DFB01	PFB01	DFC01				
 Thermistor	DTA04 DTA71* DTA72*	PTA01 PTA02							
 Power & Power factor	DWA01	PWA01	DWB01 DWB02 DWB03	PWB01 PWB02 PWB03					
Pump alternating relays	DLA71* DLA73*								
Current transformers for monitoring relays									

			
MI: 1-phase AC current transformers for 5, 20, 100, 500 AAC	MP3: 3-phase AC current transformers for 5, 20, 100 or 500 AAC	A82: True RMS AC current metering transformer for 25, 50, 100, 250 or 500 AAC	E83: Small AC current metering transformer with 7 knob selectable ranges

* DIN 43880, low profile DIN rail Housing

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OUR COMPETENCE CENTRES AND PRODUCTION SITES

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Overview
Monitoring relays



The 3-phase multifunction monitoring relay is plug & play customizable by NFC



Due to the low profile DIN housing, DPA52, DPB52 and DUB72 are suitable for installation into electric distribution panels as well as industrial cabinets.



DTA motor thermistor relays are useful in all applications where overloads are frequent and may cause motor damage

The wide range of Carlo Gavazzi monitoring relays features 7 different families depending on the type of electric measurement to be monitored: 3-phase, Voltage, Current, Frequency, Power, Power factor, Temperature
Most of them are available in 3 different housings:

- the standard DIN rail,
- the plug-in housing, with undecal socket
- the Mini-DIN housing, according to DIN 43880, for electric distribution panel installations.

DPD series: the 3-phase multifunction monitoring relay with NFC communication

This 3-phase voltage and frequency monitoring relay provides utmost flexibility in very compact dimensions, as it offers a wide range of features in just 22.5 mm.
The DPD comes with 2 different factory default settings and if they are not appropriate for the application, they can be modified through an App via smartphone or PC and uploaded into the DPD by means of its NFC communication.

DPA52 and DPB52, 3-phase monitoring relays for increased protection

The main purpose of the new 3-phase monitoring relays DPA52 and DPB52 is to protect loads from wrong phase sequence and phase loss. The DPB52 additionally provides protection against over voltage and under voltage.
One of the most important advantages of these relays is the switch mode power supply, which filters and minimizes any harmonic distortions.

DUB72, the double under voltage monitoring relays for hazardous environments

The main advantages of this monitoring relay are the presence of 2 set levels and 2 outputs, which allow the use of one as a pre-alarm and the second as an alarm.
Thanks to the high powered electromechanical 20 A relay, the second threshold/relay can be used to directly disconnect the battery or load.

DTA series, motor thermistor relays, renewed range

These thermistor relays protect electric motors from overheating, ensuring continuous production and preventing machine downtime.
They can be supplied with any voltage from 24 V to 240 V either AC or DC with two Normally Open NEMA B300 rated, or two SPDT relay outputs.
Configurations are for as auto or manual reset for the DTA04 and DTA72. The DTA71 is only auto.
The DTA71 and DTA72 come with DIN 43880 housing, hence they are also suitable for distribution boxes and panels, typical in domestic and industrial building installations.
The unique "Ready for reset" function is available in all our DTA thermistor relays.

CARLO GAVAZZI Automation Components. Specifications are subject to change without notice. Illustrations are for example only.

Overview

Monitoring relays

OVERVIEW MONITORING RELAYS ENG 11/2017
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Overview

Monitoring relays



Current monitoring relays



DIA01 / PIA01 <ul style="list-style-type: none">Over current monitoring relay1-phase AC/DCDirect input ≤ 5 A or external CT1 setpoint, hysteresis1 relay output DIA01, DIN rail housing PIA01, Plug-in terminals	DIA53 <ul style="list-style-type: none">Over current monitoring relay1-phase ACSelf suppliedVersions from 20 A to 100 A1 set-point1 transistor outputHall sensing hole 12 mm DIN rail housing	DIB71 <ul style="list-style-type: none">Over or under current 1-phase AC/DC TRMSDirect reading ≤ 5 A or CTAdjustable delay and hysteresis1 relay output DIN rail housing	DIB01 / PIB01 <ul style="list-style-type: none">Over or under current 1-phase AC/DC TRMSDirect reading ≤ 10 A or CT InputAdjustable delay and hysteresis1 relay output DIB01, DIN rail housing PIB01, Plug-in terminals	DIB01 100A <ul style="list-style-type: none">Over or under current 1-phase AC TRMSHysteresis, DelayHall sensing hole 12 mm ≤ 100 A DIN rail housing
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Monitoring relays

3-phase monitoring relays



DPA01 / PPA01 <ul style="list-style-type: none">3-phase Delta mainsUp to 690 V mainsPhase sequence and lossSelf powered1 SPDT (PPA01)1 SPDT or 2 SPDT relay outputs (DPA01) DPA01, DIN rail housing PPA01, Plug-in terminals	DPA51 / DPA71 <ul style="list-style-type: none">3-phase Delta mainsPhase sequence and lossSelf poweredSPDT relay output (DPA51)2 SPDT relay outputs (DPA71) DIN rail housing	DPA52 <ul style="list-style-type: none">3-phase Delta mainsPhase sequence and lossSwitch mode power supplySPDT relay output DIN rail housing	DPA53 <ul style="list-style-type: none">Solid or split-core for cable or 3-phase Delta mainsPhase sequence and lossAdjustable under voltageSelf poweredSPDT relay output DIN rail housing	DPA55 <ul style="list-style-type: none">3-phase Delta mainsPhase sequence and lossOver and under voltageVoltage window monitoringSelf poweredSPDT relay output DIN rail housing
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Monitoring relays

3-phase monitoring relays



DPB52 <ul style="list-style-type: none">3-phase Delta mainsPhase sequence and lossAdjustable over / under voltage and delay ONSwitch mode power supply5A SPDT relay output DIN rail housing	DPC01 / PPC01 <ul style="list-style-type: none">3-phase Delta or Star mainsPhase sequence and lossAsymmetry or tolerance2 setpoints and adjustable delaySelf powered2 SPDT relay outputsUp to 690 V mains (DPC01)400 Hz versions (DPC01) DPC01, DIN rail housing PPC01, Plug-in terminals	DPC71 / PPC71 <ul style="list-style-type: none">3-phase Delta or Star mainsOver and under voltagePhase sequence and lossAsymmetry or toleranceSelf powered2 SPDT outputs DPC71, DIN rail housing PPC71, Plug-in terminals	DPC02 <ul style="list-style-type: none">3-phase Delta and Star mainsUp to 690 V mainsPhase sequence and lossOver and under voltageOver and under frequency2 setpoints and delaySelf powered2 SPDT relay output DIN rail housing	DPD <ul style="list-style-type: none">3-phase Delta and Star mainsVoltage and frequency over/under, asymmetry, phase and neutral loss, phase sequence.Standard configuration, customizable NFCTwo SPDT relay outputsUp to 400 Hz DIN rail housing
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Monitoring relays

Voltage monitoring relays



DUA01 / PUA01 <ul style="list-style-type: none">AC/DC 1-phase over voltageFrom 0.4 V to 500 VAdjustable hysteresisProgrammable latchingSPDT relay output DUA01, DIN rail housing PUA01, plug-in terminals	DUA52 <ul style="list-style-type: none">DC 1-phase under voltageFrom 8 to 58 VDCAdjustable voltage and hysteresisSPDT relay output DUA55 <ul style="list-style-type: none">AC 1-phase.From 208 to 480 VAC+/-10% or +/-15% tolerance monitoring.Self poweredSPDT relay output DIN rail housing	DUB71 <ul style="list-style-type: none">0.1 to 500 VDC/AC 1-phaseOver or under voltageAdjustable hysteresis and delayProgrammable latching or inhibitSPDT relay output DIN rail housing	DUB01 / PUB01 <ul style="list-style-type: none">0.1 to 500 VDC/AC 1-phaseOver or under voltageAdjustable hysteresis and delaySPDT relay output DUB01, DIN rail housing PUB01, plug-in terminals	DUB02 / PUB02 <ul style="list-style-type: none">24, 115 or 230 VAC selectableAdjustable over or under voltageAdjustable delayProgrammable latching or inhibitSPDT relay output DUB02, DIN rail housing PUB02, plug-in terminals
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Current monitoring relays

Frequency monitoring relays

Level manag. relays



DIB02 / PIB02 <ul style="list-style-type: none">Over or under current1-phase AC/DC TRMSCT or Shunt input signalHysteresis, delay1 relay output DIB02, DIN rail housing PIB02, plug-in terminals	DIC01 / PIC01 <ul style="list-style-type: none">Process signals monitoringAC/DC: 0.5-5 mA, 2-20 mA, 0.1+1 V, 1+10 VDC: -5 to +5 V, -20 mA to +20 mA, -1 to +1 V, -10 to 10 V2 relay outputs DIC01, DIN rail housing PIC01, plug-in terminals	DFB01 / PFB01 <ul style="list-style-type: none">1-phase AC inputOver / under frequency24 to 240 V, 50/60 HzAdjustable delayProgrammable latching or inhibitSelf suppliedSPDT relay output DFB01, DIN rail housing PFB01, plug-in terminals	DFC01 <ul style="list-style-type: none">1-phase AC inputOver and under frequency24 to 240 V, 50/60 Hz2 Adjustable delayProgrammable latching or inhibitSelf supplied2 SPDT relay output DIN rail housing	DLA71 / DLA73 <ul style="list-style-type: none">Pump alternating relayFor 2 or 3 pumpsDifferential or sequential modeAutomatic rotation of the pumpsOutput relay managed by one independent input contact (DLA73) DIN rail housing
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3-phase monitoring relays



DPA02 / PPA02 <ul style="list-style-type: none">3-phase Delta mainsPhase sequenceSupply voltage monitoring +/-15%Self poweredSPDT relay output DPA02, DIN rail housing PPA02, plug-in terminals	DPA03 / PPA03 <ul style="list-style-type: none">3-phase Delta mainsPhase sequence and lossAdjustable under voltageSelf poweredSPDT relay outputUp to 690 V mains (DPA03 only) DPA03, DIN rail housing PPA03, plug-in terminals	DPB01 / PPB01 <ul style="list-style-type: none">3-phase Delta or Star mainsPhase sequence and lossOver and under voltageAdjustable delaySelf poweredSPDT relay output DPB01, DIN rail housing PPB01, plug-in terminals	DPB02 / PPB02 <ul style="list-style-type: none">3-phase Delta or Star mainsPhase sequence and lossAdjustable asymmetry and delaySelf poweredSPDT relay output DPB02, DIN rail housing PPB02, plug-in terminals	DPB51 <ul style="list-style-type: none">3-phase Delta mainsPhase sequence, neutral and phase lossAdjustable over and under voltageAdjustable delaySelf poweredSPDT relay output DIN rail housing
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Power monitoring relays



DWA01 / PWA01 <ul style="list-style-type: none">1 or 3-phase Cos ϕ monitoringOver or under Cos ϕAdjustable setpointSelf poweredDirect reading or through ext. CTSPDT relay output DWA01, DIN rail housing PWA01, Plug-in terminals	DWB01 / PWB01 <ul style="list-style-type: none">3-phase load guardUp to 690 VOver and under Cos ϕAdjustable setpointManual start/stopDirect reading or through ext. CTSPDT relay output DWB01, DIN rail housing PWB01, Plug-in terminals	DWB02 / PWB02 <ul style="list-style-type: none">1 or 3-phase active power monitoringDirect current or CT reading inputOver and under powerPower direction settingProgrammable latching or inhibitAutomatic/manual start/stopSeparate power ON and alarm ON delaysSPDT relay output DWB02, DIN rail housing PWB02, Plug-in terminals	DWB03 / PWB03 <ul style="list-style-type: none">1 or 3-phase active power monitoringDirect current or CT reading inputOver and under powerPower direction settingProgrammable latching or inhibitAutomatic/manual start/stopSeparate power ON and alarm ON delaysSPDT relay output DWB03, DIN rail housing PWB03, Plug-in terminals
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Voltage monitoring relays

Motor thermistor relays



DUB72 <ul style="list-style-type: none">Dual under voltage monitoring24Vdc power supply: range from 15 VDC to 30 VDCMeasured range from 16 VDC to 26 VDCClass I Division 2 of the ISA12.12.1 hazardous location installation norm approved2 SPDT relay outputs DIN rail housing	DUB03 / PUB03 <ul style="list-style-type: none">24, 48, 115 or 230 VAC selectableAdjustable over or under voltageAdjustable delay and hysteresisProgrammable latching or inhibitSPDT relay output DUB03 DIN rail housing PUB03, Plug-in terminals	DUC01 / PUC01 <ul style="list-style-type: none">2 to 500 VDC/AC 1-phaseOver and under voltage2 voltage and delay setpointsAdjustable hysteresis2 SPDT relay outputs DUC01, DIN rail housing PUC01, Plug-in terminals	DTA71 <ul style="list-style-type: none">Up to 6 PTCs inputAuto resetTest buttonNo settingSPDT relay outputUniversal supply DTA72 <ul style="list-style-type: none">Up to 6 PTCs inputManual / Auto resetTest buttonNo setting2 SPDT relay outputUniversal supply DIN rail housing	DTA04 <ul style="list-style-type: none">Up to 6 PTCs inputAuto or Manual reset configuration availableTwo Normally Open relays NEMA B300 8A @ 250 VAC outputs2 SPDT relay outputsUniversal power supply from 24 V to 240 VAC/VDC DIN rail housing
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