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## Monitoring Relays

### Carlo Gavazzi



# Monitoring Relays

Types

## Current relays

**DIA 01  
PIA 01**



**DIA 53**



**DIB 01  
PIB 01**



Dimensions (mm) H x W x D  
DIN RAIL housing  
Plug-in housing  
Function

80 x 22.5 x 99.5 [D]  
80 x 36 x 94 [P]  
Over current monitoring relay.  
1-phase AC/DC.  
Direct input or on CT 5A.  
Set-point adjustable.  
Hysteresis adjustable.

81 x 17.5 x 67.2 [Mini-D]  
Over current monitoring relay.  
1-phase AC.  
Set-point adjustable.  
2-wire connection.  
Own power supply.  
Reaction time <50 ms for F versions.  
12 mm hole for insulated current carrying wire.

80 x 22.5 x 99.5 [D]  
80 x 36 x 94 [P]  
Over or under current monitoring relay.  
1-phase AC/DC TRMS.  
Direct input or on CT 10A.  
Set-point adjustable.  
Hysteresis adjustable.  
Time delay adjustable.  
12 mm hole for insulated current carrying wire [100A].

**Input Specifications**  
Measuring range

0.5-5 A AC/DC

2-20 AAC [20A]  
5-50 AAC [50A]  
10-100 AAC [100A]

0.1-5 mA AC/DC [5MA]  
1-50 mA AC/DC [50MA]  
10-500 mA AC/DC [500MA]  
0.1-5 A AC/DC [5A]  
1-10 A AC/DC [10A]  
2-100 A AC [100A]

**Output Specifications**

1 x SPDT relay  
8 A / 250 VAC  
5 A / 24 VDC  
>1 x 10<sup>5</sup> operations

Static output  
100 mA

1 x SPDT relay  
8 A / 250 VAC  
5 A / 24 VDC  
>1 x 10<sup>5</sup> operations

**General Specifications**  
Power supply

24 VDC [724]  
48 VDC [748]  
24/48 VAC [B48]  
115/230 VAC [B23]

40 VDC max.

24 VDC [724]  
48 VDC [748]  
24/48 VAC [B48]  
115/230 VAC [B23]  
24 VDC / 24-240 VAC [M24]  
CE - UL - CSA

Approvals/Marks

CE - UL - CSA

CE - UL - CSA

CE - UL - CSA

**References**

References:  
... = insert code for Power Supply.

DIA01C 724 5A  
PIA01C 724 5A  
DIA01C 748 5A  
PIA01C 748 5A  
DIA01C B48 5A  
PIA01C B48 5A  
DIA01C B23 5A  
PIA01C B23 5A

DIA53S 724 20A  
DIA53S 724 50A  
DIA53S 724 100A  
DIA53S 724 20A F  
DIA53S 724 50A F  
DIA53S 724 100A F

DIB01C ... 5MA  
DIB01C ... 50MA  
DIB01C ... 500MA  
DIB01C ... 5A  
DIB01C ... 10A  
DIB01C M24 100A  
PIB01C ... 5MA  
PIB01C ... 50MA  
PIB01C ... 500MA  
PIB01C ... 5A  
PIB01C ... 10A





**Types**

**Current relays**

**DIB 71**

**DIB 02  
PIB 02**

**DIC 01  
PIC 01**



Dimensions (mm) H x W x D  
DIN RAIL housing  
Plug-in housing  
Function

81 x 35.5 x 67.2 [Mini-D]

80 x 22.5 x 99.5 [D]  
80 x 36 x 94 [P]

80 x 45 x 99.5 [D]  
80 x 36 x 94 [P]

Over or under current monitoring relay.  
1-phase AC/DC TRMS.  
Direct input or on CT 5A.  
Set-point adjustable.  
Hysteresis adjustable.  
Time delay adjustable.

Over or under current monitoring relay.  
1-phase AC/DC TRMS.  
Input on shunt or CT MI/MP.  
Set-point adjustable.  
Hysteresis adjustable.  
Time delay adjustable.

Process signal monitoring relay.  
1-phase AC/DC TRMS.  
Direct input, CT A82 or CT MI/MP.  
2 set-point separately adjustable.  
Hysteresis adjustable.  
2 delay functions separately adjustable.

**Input Specifications**

Measuring range

0.1-5 mA AC/DC [5MA]  
1-50 mA AC/DC [50MA]  
10-500 mA AC/DC [500 MA]  
0.1-5 A AC/DC [5A]

6-150 mV AC/DC  
0.4 - 4Vp

0.5-20 mA AC/DC  
0.1-10 V AC/DC  
0.4 - 4Vp

**Output Specifications**

Max. load AC1

Max. load DC12

Electrical life

1 x SPDT relay

5 A / 250 VAC

5 A / 24 VDC

>1 x 10<sup>5</sup> operations

1 x SPDT relay

8 A / 250 VAC

5 A / 24 VDC

>1 x 10<sup>5</sup> operations

1 x SPDT relay [P]  
2 x SPDT relays [D]

8 A / 250 VAC

5 A / 24 VDC

>1 x 10<sup>5</sup> operations

**General Specifications**

Power supply

24/48 VAC [B48]  
115/230 VAC [B23]

24 VDC [724]  
48 VDC [748]  
24/48 VAC [B48]  
115/230 VAC [B23]

24 VDC [724]  
48 VDC [748]  
24/48 VAC [B48]  
115/230 VAC [B23]

Approvals/Marks

CE - UL - CSA

CE - UL - CSA

CE - UL - CSA

**References**

DIB71C B48 5MA  
DIB71C B48 50MA  
DIB71C B48 500MA  
DIB71C B48 5A  
DIB71C B23 5MA  
DIB71C B23 50MA  
DIB71C B23 500MA  
DIB71C B23 5A

DIB02C 724 150MV  
PIB02C 724 150MV  
DIB02C 748 150MV  
PIB02C 748 150MV  
DIB02C B48 150MV  
PIB02C B48 150MV  
DIB02C B23 150MV  
PIB02C B23 150MV

DIC01D 724 AV0  
PIC01C 724 AV0  
DIC01D 748 AV0  
PIC01C 748 AV0  
DIC01D B48 AV0  
PIC01C B48 AV0  
DIC01D B23 AV0  
PIC01C B23 AV0



## Types

### Voltage relays

**DUA 01  
PUA 01**



**DUB 01  
PUB 01**



**DUB 71**



Dimensions (mm) H x W x D  
DIN RAIL housing  
Plug-in housing  
Function

80 x 22.5 x 99.5 [D]  
80 x 36 x 94 [P]  
Over current and voltage monitoring relay.  
1-phase AC/DC.  
Set-point adjustable.  
Hysteresis adjustable.

80 x 22.5 x 99.5 [D]  
80 x 36 x 94 [P]  
Over or under voltage monitoring relay.  
1-phase AC/DC TRMS.  
Set-point adjustable.  
Hysteresis adjustable.  
Time delay adjustable.

81 x 35.5 x 67.2 [Mini-D]  
Over or under voltage monitoring relay.  
1-phase AC/DC TRMS.  
Set-point adjustable.  
Hysteresis adjustable.  
Time delay adjustable.

### Input Specifications

Measuring range

2-500 V AC/DC  
0.4 -4 Vp

0.1-10 V AC/DC [10V]  
2-500 V AC/DC [500V]

0.1-10 V AC/DC [10V]  
2-500 V AC/DC [500V]

### Output Specifications

Max. load AC1

Max. load DC12

Electrical life

1 x SPDT relay  
8 A / 250 VAC  
5 A / 24 VDC  
>1 x 10<sup>5</sup> operations

1 x SPDT relay  
8 A / 250 VAC  
5 A / 24 VDC  
>1 x 10<sup>5</sup> operations

1 x SPDT relay  
5 A / 250 VAC  
5 A / 24 VDC  
>1 x 10<sup>5</sup> operations

### General Specifications

Power supply

24 VDC [724]  
48 VDC [748]  
24/48 VAC [B48]  
115/230 VAC [B23]

24 VDC [724]  
48 VDC [748]  
24/48 VAC [B48]  
115/230 VAC [B23]

24/48 VAC [B48]  
115/230 VAC [B23]

Approvals/Marks

CE - UL - CSA

CE - UL - CSA

CE - UL - CSA

### References

DUA01C 724 500V  
PUA01C 724 500V  
DUA01C 748 500V  
PUA01C 748 500V  
DUA01C B48 500V  
PUA01C B48 500V  
DUA01C B23 500V  
PUA01C B23 500V

DUB01C 724 10V  
DUB01C 724 500V  
PUB01C 724 10V  
PUB01C 724 500V  
DUB01C 748 10V  
DUB01C 748 500V  
PUB01C 748 10V  
PUB01C 748 500V  
DUB01C B48 10V  
DUB01C B48 500V  
PUB01C B48 10V  
PUB01C B48 500V  
DUB01C B23 10V  
DUB01C B23 500V  
PUB01C B23 10V  
PUB01C B23 500V

DUB71C B48 10V  
DUB71C B48 500V  
DUB71C B23 10V  
DUB71C B23 500V





**Types**

**Voltage relays**

**DUB 02  
PUB 02**

**DUB 03  
PUB 03**

**DUC 01  
PUC 01**
















Dimensions (mm) H x W x D	80 x 22.5 x 99.5 [D] 80 x 36 x 94 [P]	80 x 22.5 x 99.5 [D] 80 x 36 x 94 [P]	80 x 45 x 99.5 [D] 80 x 36 x 94 [P]
DIN RAIL housing			
Plug-in housing			
Function	Over and under voltage monitoring relay. 1-phase (own power supply) AC TRMS. Over and under voltage set-point separately adjustable. Hysteresis adjustable. Time delay adjustable (ON/OFF).	Over or under voltage monitoring relay. 1-phase (own power supply) AC/DC TRMS. Set-point adjustable. Hysteresis adjustable. Time delay adjustable.	Over and under voltage monitoring relay. 1-phase AC/DC TRMS. 2 set-point separately adjustable. Hysteresis adjustable. 2 delay functions separately adjustable.
<b>Input Specifications</b>			
Measuring range	24/115/230 VAC	24/48/115/240 V AC/DC	2-500 V AC/DC [500V]
<b>Output Specifications</b>			
	1 x SPDT relay	1 x SPDT relay	1 x SPDT relay [P] 2 x SPDT relays [D]
Max. load AC1	8 A / 250 VAC	8 A / 250 VAC	8 A / 250 VAC
Max. load DC12	5 A / 24 VDC	5 A / 24 VDC	5 A / 24 VDC
Electrical life	>1 x 10 <sup>5</sup> operations	>1 x 10 <sup>5</sup> operations	>1 x 10 <sup>5</sup> operations
<b>General Specifications</b>			
Power supply	24/115/230 VAC	12-240 V AC/DC	24 VDC [724] 48 VDC [748] 24/48 VAC [B48] 115/230 VAC [B23]
Approvals/Marks	CE - UL - CSA	CE - UL - CSA	CE - UL - CSA
<b>References</b>			
	DUB02C T23 PUB02C T23	DUB03C W24 PUB03C W24	DUC01D 724 500V PUC01C 724 500V DUC01D 748 500V PUC01C 748 500V DUC01D B48 500V PUC01C B48 500V DUC01D B23 500V PUC01C B23 500V

Control



# Monitoring Relays

Types

	Voltage relays		3-phase voltage relays
	DUA 52	DUA 55	DPA 01 PPA 01
			
	  	   	  
Dimensions (mm) H x W x D DIN RAIL housing	81 x 17.5 x 67.2 [Mini-D]	81 x 17.5 x 67.2 [Mini-D]	80 x 22.5 x 99.5 [D]
Plug-in housing Function	Under voltage monitoring relay for DC battery. Set-point adjustable. Hysteresis adjustable. Measures on own power supply.	Over and under voltage monitoring relay. 1-phase (own power supply) AC TRMS.	Phase sequence, total and partial phase loss monitoring relay. 3-phase AC (own power supply). Regenerated voltage.
<b>Input Specifications</b> Measuring range	8-28 VDC [724] 38-58 VDC [748]	208/220/230/240 VAC	208-240 VAC [M23] 208-415 VAC [P] [M44] 208-480 VAC [D] [M44] 380-415 VAC [P] [M48] 380-480 VAC [D] [M48] 380-600 VAC [M60] 380-690 VAC [M69]
<b>Output Specifications</b> Max. load AC1 Max. load DC12 Electrical life	1 x SPDT relay 5 A / 250 VAC 5 A / 24 VDC >1 x 10 <sup>5</sup> operations	1 x SPDT relay 5 A / 250 VAC 5 A / 24 VDC >1 x 10 <sup>5</sup> operations	1 x SPDT relay [C] 1 x DPDT relay [D] 8 A / 250 VAC 5 A / 24 VDC >1 x 10 <sup>5</sup> operations
<b>General Specifications</b> Power supply	8-28 VDC [724] 38-58 VDC [748]	208-480 VAC	208-240 VAC [M23] 208-415 VAC [P] [M44] 208-480 VAC [D] [M44] 380-415 VAC [P] [M48] 380-480 VAC [D] [M48] 380-600 VAC [M60] 380-690 VAC [M69]
Approvals/Marks	CE - UL - CSA	CE - UL - CSA	CE - UL - CSA
<b>References</b>	DUA52 C724 DUA52 C748	DUA55 CM44	DPA01D M23 PPA01D M23 DPA01C M44 PPA01C M44 DPA01D M48 PPA01D M48 DPA01C M60 DPA01C M69

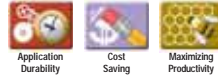




## 3-phase voltage relays

Types

**DPA 51  
DPA 71**



**DPA 03  
PPA 03**



**DPA 53**



Dimensions (mm) H x W x D  
DIN RAIL housing

81 x 17.5 x 67.2 [Mini-D]  
81 x 35.5 x 67.2 [Mini-D]

Plug-in housing  
Function

Phase sequence, total and partial phase loss monitoring relay.  
3-phase AC (own power supply).  
Regenerated voltage.

80 x 22.5 x 99.5 [D]

80 x 36 x 94 [P]  
Under voltage, phase sequence, total and partial phase loss monitoring relay.  
3-phase (own power supply) AC TRMS.

81 x 17.5 x 67.2 [Mini-D]

Under voltage, phase sequence, total and partial phase loss monitoring relay.  
3-phase (own power supply) AC TRMS.

### Input Specifications

Measuring range

208-240 VAC [M23]  
208-480 VAC [M44]  
380-480 VAC [M48]

208-240 VAC [M23]  
380-415 VAC [P] [M48]  
380-480 VAC [D] [M48]  
600-690 VAC [M69]

208-240 VAC [M23]  
380-480 VAC [M48]

### Output Specifications

Max. load AC1

Max. load DC12

Electrical life

1 x SPDT relay [C]  
1 x DPDT relay [D]

5 A / 250 VAC  
5 A / 24 VDC

>1 x 10<sup>5</sup> operations

1 x SPDT relay

8 A / 250 VAC  
5 A / 24 VDC

>1 x 10<sup>5</sup> operations

1 x SPDT relay

5 A / 250 VAC  
5 A / 24 VDC

>1 x 10<sup>5</sup> operations

### General Specifications

Power supply

208-240 VAC [M23]  
208-480 VAC [M44]  
380-480 VAC [M48]

208-240 VAC [M23]  
380-415 VAC [P] [M48]  
380-480 VAC [D] [M48]  
600-690 VAC [M69]

208-240 VAC [M23]  
380-480 VAC [M48]

Approvals/Marks

CE - UL - CSA

CE - UL - CSA

CE - UL - CSA

### References

DPA51C M44  
DPA71D M23  
DPA71D M48

DPA03C M23  
PPA03C M23  
DPA03C M48  
PPA03C M48  
DPA03C M69

DPA53C M23  
DPA53C M48



# Monitoring Relays

Types

Dimensions (mm) H x W x D  
DIN RAIL housing  
Plug-in housing  
Function

Input Specifications  
Measuring range

Output Specifications

Max. load AC1  
Max. load DC12  
Electrical life

General Specifications  
Power supply

Approvals/Marks

References

## 3-phase voltage relays

DPA 55



81 x 17.5 x 67.2 [Mini-D]

Over and under voltage, phase sequence, total and partial phase loss monitoring relay.  
3-phase (own power supply) AC TRMS.  
Two tolerance voltage windows.

208-480 VAC

1 x SPDT relay

5 A / 250 VAC

5 A / 24 VDC

>1 x 10<sup>5</sup> operations

208-480 VAC

CE - UL - CSA

DPA55C M44

DPB 01  
PPB 01



80 x 22.5 x 99.5 [D]  
80 x 36 x 94 [P]

Over and under voltage monitoring relay with phase loss and phase sequence.  
3-phase +N (own power supply) AC TRMS.  
N versions without phase sequence detection.  
W4 versions supplied between L and N.  
2 set-point separately adjustable.  
Time delay adjustable.

208-240 VAC [M23]  
380-415 VAC [P] [M48]  
380-480 VAC [D] [M48]

1 x SPDT relay

8 A / 250 VAC

5 A / 24 VDC

>1 x 10<sup>5</sup> operations

208-240 VAC [M23]  
380-415 VAC [P] [M48]  
380-480 VAC [D] [M48] [W]

CE - UL - CSA

DPB01C M23  
PPB01C M23  
DPB01C M23 N  
PPB01C M23 N  
DPB01C M48  
PPB01C M48  
DPB01C M48 W4  
PPB01C M48 W4  
DPB01C M48 N  
PPB01C M48 N  
DPB01C M48 N W4  
PPB01C M48 N W4

DPB 71



81 x 35.5 x 67.2 [Mini-D]

Over and under voltage monitoring relay with phase loss and phase sequence.  
3-phase +N (own power supply) AC TRMS.  
2 set-point separately adjustable.  
Time delay adjustable.

208-240 VAC [M23]  
380-480 VAC [M48]

1 x SPDT relay

5 A / 250 VAC

5 A / 24 VDC

>1 x 10<sup>5</sup> operations

208-240 VAC [M23]  
380-480 VAC [M48]

CE - UL - CSA

DPB71C M23  
DPB71C M48





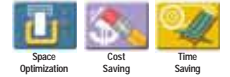
**Types**

**3-phase voltage relays**      **3-phase multifunction relays**

**DPB 02  
PPB 02**

**DPC 01  
PPC 01**

**DPC 02**



Dimensions (mm) H x W x D  
DIN RAIL housing  
Plug-in housing  
Function

80 x 22.5 x 99.5 [D]  
80 x 36 x 94 [P]  
Asymmetry monitoring relay with phase sequence/phase loss.  
3-phase +N (own power supply) AC TRMS.  
Adjustable asymmetry.  
Time delay adjustable.

80 x 45 x 99.5 [D]  
80 x 36 x 94 [P]  
Over and under voltage monitoring relay with phase loss/phase sequence and asymmetry.  
3-phase +N (own power supply) AC TRMS.  
Set-points separately adjustable by function.

80 x 45 x 99.5 [D]  
Over and under voltage/over and under frequency with phase loss and phase sequence monitoring relay.  
3-phase+N (own power supply) AC TRMS.  
Separately adjustable set points.  
Separately adjustable delay times.  
Adjustable frequency range.

**Input Specifications**  
Measuring range

208-240 VAC [M23]  
380-415 VAC [P] [M48]  
380-480 VAC [D] [M48]

208-240 VAC [M23]  
380-415 VAC [P] [M48]  
380-480 VAC [D] [M48]  
600-690 VAC [M69]  
Frequency 50-60 Hz  
100-115 VAC [M11 400Hz]  
208-240 VAC [M23 400Hz]  
380-415 VAC [M48 400Hz]  
440-480 VAC [M49 400Hz]  
600-690 VAC [M69 400Hz]  
Frequency 50-400 Hz

Voltage:  
208-240 VAC [M23]  
380-415 VAC [M48]  
440-480 VAC [M49]  
600-690 VAC [M69]  
  
Frequency: 50/60 Hz

**Output Specifications**

Max. load AC1  
Max. load DC12  
Electrical life

1 x SPDT relay  
8 A / 250 VAC  
5 A / 24 VDC  
>1 x 10<sup>5</sup> operations

2 x SPDT relays  
8 A / 250 VAC  
5 A / 24 VDC  
>1 x 10<sup>5</sup> operations

2 x SPDT relays  
8 A / 250 VAC  
5 A / 24 VDC  
>1 x 10<sup>5</sup> operations

**General Specifications**  
Power supply

208-240 VAC [M23]  
380-415 VAC [P] [M48]  
380-480 VAC [D] [M48]

100-115 VAC [M11]  
208-240 VAC [M23]  
380-415 VAC [P] [M48]  
380-480 VAC [D] [M48]  
440-480 VAC [M49]  
600-690 VAC [M69]

208-240 VAC [M23]  
308-415 VAC [M48]  
440-480 VAC [M49]  
600-690 VAC [M69]

Approvals/Marks

CE - UL - CSA

CE - UL - CSA - GL

CE - UL - CSA

**References**

DPB02C M23  
PPB02C M23  
DPB02C M48  
PPB02C M48

DPC01D M23  
PPC01D M23  
DPC01D M48  
PPC01D M48  
DPC01D M69  
DPC01D M11 400HZ  
DPC01D M23 400HZ  
DPC01D M48 400HZ  
DPC01D M49 400HZ  
DPC01D M69 400HZ

DPC02D M23  
DPC02D M48  
DPC02D M49  
DPC02D M69



# Monitoring Relays

## Frequency relays

## Cosφ relays

Types

DFB 01  
PFB 01

DFC 01

DWA 01  
PWA 01



User  
Friendly

Simplified  
Set-Up

User  
Friendly

Simplified  
Set-Up

Simplified  
Set-Up

Maximizing  
Productivity

Dimensions (mm) H x W x D  
DIN RAIL housing  
Plug-in housing  
Function

80 x 22.5 x 99.5 [D]  
80 x 36 x 94 [P]

80 x 45 x 99.5 [D]

80 x 22.5 x 99.5 [D]  
80 x 36 x 94 [P]

Frequency monitoring relay.  
1-phase AC (own power  
supply).  
2 set-points separately  
adjustable.  
Time delay adjustable.

Frequency monitoring relay.  
1-phase AC (own power  
supply).  
2 set-points separately  
adjustable.  
2 separate time delays  
adjustable.  
2 separate relay outputs.

Cos φ monitoring relay.  
1- or 3-phase AC (own power  
supply).  
Direct input or through  
external CT.  
Power ON delay adjustable.

### Input Specifications

Measuring range

50 / 60 Hz

50 / 60 Hz

cos φ : 0.1-0.99

### Output Specifications

Max. load AC1

1 x SPDT relay

8 A / 250 VAC

Max. load DC12

5 A / 24 VDC

Electrical life

>1 x 10<sup>5</sup> operations

2 x SPDT relays

8 A / 250 VAC

5 A / 24 VDC

>1 x 10<sup>5</sup> operations

1 x SPDT relay

8 A / 250 VAC

5 A / 24 VDC

>1 x 10<sup>5</sup> operations

### General Specifications

Power supply

24-240 VAC

24-48 VAC [B48]  
115-230 VAC [B23]

208-240 VAC [M23]  
380-415 VAC [P] [M48]  
380-480 VAC [D] [M48]

Approvals/Marks

CE - UL - CSA

CE - UL - CSA

CE - UL - CSA

### References

DFB01C M24  
PFB01C M24

DFC01D B48  
DFC01D B23

DWA01C M23 5A  
PWA01C M23 5A  
DWA01C M48 5A  
PWA01C M48 5A





Power and power factor relays

Types

DWB 01  
PWB 01

DWB 02  
PWB 02

DWB 03  
PWB 03



Dimensions (mm) H x W x D  
DIN RAIL housing  
Plug-in housing  
Function

80 x 45 x 99.5 [D]  
80 x 36 x 94 [P]  
Power factor monitoring relay.  
1- or 3-phase (own power supply) AC TRMS.  
Direct input or through external CT.  
2 set-point separately adjustable.  
Time delay adjustable.  
Power ON delay adjustable.

80 x 45 x 99.5 [D]  
80 x 36 x 94 [P]  
Active power monitoring relay.  
1- or 3-phase (own power supply) AC TRMS.  
Direct input or through external CT.  
2 set-point separately adjustable.  
Time delay adjustable.  
Power ON delay adjustable.

80 x 45 x 99.5 [D]  
80 x 36 x 94 [P]  
Active power monitoring relay.  
1- or 3-phase AC TRMS power direction (own power supply).  
Direct input or through external CT.  
2 set-point separately adjustable.  
Time delay adjustable.  
Power ON delay adjustable.

Input Specifications  
Measuring range

cos φ : 0.1-0.99

208-690 VAC  
0.5-5 AAC  
1-10 AAC  
0.4 - 4 Vp

208-690 VAC  
0.5-5 AAC  
1-10 AAC  
0.4 - 4 Vp

Output Specifications

Max. load AC1  
Max. load DC12  
Electrical life

1 x SPDT relay  
8 A / 250 VAC  
5 A / 24 VDC  
>1 x 10<sup>5</sup> operations

1 x SPDT relay  
8 A / 250 VAC  
5 A / 24 VDC  
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1 x SPDT relay  
8 A / 250 VAC  
5 A / 24 VDC  
>1 x 10<sup>5</sup> operations

General Specifications  
Power supply

208-240 VAC [M23]  
380-415 VAC [P] [M48]  
380-480 VAC [D] [M48]  
600-690 VAC [M69]

208-240 VAC [M23]  
380-415 VAC [P] [M48]  
380-480 VAC [D] [M48]  
600-690 VAC [M69]

208-240 VAC [M23]  
380-415 VAC [P] [M48]  
380-480 VAC [D] [M48]  
600-690 VAC [M69]

Approvals/Marks

CE - UL - CSA

CE - UL - CSA

CE - UL - CSA

References

DWB01C M23 10A  
PWB01C M23 10A  
DWB01C M48 10A  
PWB01C M48 10A  
DWB01C M69 10A

DWB02C M23 10A  
PWB02C M23 10A  
DWB02C M48 10A  
PWB02C M48 10A  
DWB02C M69 10A

DWB03C M23 10A  
PWB03C M23 10A  
DWB03C M48 10A  
PWB03C M48 10A  
DWB03C M69 10A



# Monitoring Relays, Timers

Types

## Temperature relays

DTA 01 PTA 01  
DTA 02 PTA 02



## Pump alternating relays

DLA 71  
DLA 73



## Timers, Delay on Operate

DAA 01  
PAA 01



Dimensions (mm) H x W x D

DIN RAIL housing

Plug-in housing

Function

Function code

### Input Specifications

Time range

### Output Specifications

Max. load AC1

Max. load DC12

Electrical life

### General Specifications

Power supply

Approvals/Marks

References

80 x 22.5 x 99.5 [D]  
80 x 36 x 94 [P]  
Motor temperature monitoring relays.  
PTC insulated input.  
Automatic set-point.  
Short circuit detection.  
Latch, test and reset function (DTA02, PTA02).

1 x SPDT relay  
1 x SPST relay [DTA01]

8 A / 250 VAC  
5 A / 24 VDC  
>1 x 10<sup>5</sup> operations

24 VDC [724]  
24 VAC [024]  
115 VAC [115]  
230 VAC [230]

CE - UL - CSA

DTA01C 724  
PTA01C 724  
DTA01C 024  
PTA01C 024  
DTA01C 115  
PTA01C 115  
DTA01C 230  
PTA01C 230  
DTA02C 724  
PTA02C 724  
DTA02C 024  
PTA02C 024  
DTA02C 115  
PTA02C 115  
DTA02C 230  
PTA02C 230

81 x 35.5 x 67.2 [Mini-D]

Pump alternating relay.  
For 2 or 3 pumps.  
Differential or sequential mode.  
Automatic rotation of the pumps.  
Output relay managed by one independent input contact (DLA73).

2 x SPST relay [DLA71] [2P]  
3 x SPST relay [DLA71] [3P]  
3 x SPST relay [DLA73]

5 A / 250 VAC  
5 A / 24 VDC  
>1 x 10<sup>5</sup> operations

24/48 VAC [B48]  
115/230 VAC [B23]

CE - UL - CSA

DLA71D B48 2P  
DLA71T B48 3P  
DLA71D B23 2P  
DLA71T B23 3P  
DLA73T B23 2P  
DLA73T B48 2P

80 x 22.5 x 99.5 [D]  
80 x 36 x 94 [P]

Delay on operate (automatic start).

0

0.1 s - 1 s  
1 s - 10 s  
6 s - 60 s  
60 s - 600 s  
0.1 s - 1 h  
1 s - 10 h  
10 s - 100 h

1 x SPDT relay [C]  
2 x SPDT relays [D]

8 A / 250 VAC  
5 A / 24 VDC  
>10<sup>5</sup> operations

24 VDC / 24-240 VAC [C]  
24-240 VAC/DC [D]

CE - UL - CSA - RINA

DAA01C M24  
PAA01C M24  
DAA01D M24  
PAA01D M24



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