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Timers

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Types

Timers, Delay on Operate

Delay on release

DAA 51
DAA 71

FAA 01
FAA 08

DBA 02
PBA 02



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

Delay on operate
(automatic start).

48 x 48 x 83.4
Delay on operate.
Symmetrical recycler.
Interval.
One shot.

80 x 22.5 x 99.5 [D]

80 x 36 x 94 [P]
Delay on release.

Function code

0

0 - R - In - Sh

Dr

Input Specifications

Time range

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

Full scale 12	Full scale 30
0.02 - 1.2 s	0.05 - 3 s
0.2 - 12 s	0.5 - 30 s
2 - 120 s	5 - 300 s
0.2 - 12 m	0.5 - 30 m
2 - 120 m	5 - 300 m
0.2 - 12 h	0.5 - 30 h
2 - 120 h	5 - 300 h

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

Output Specifications

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

1 x DPDT relay
11-pin [01]
8-pin [08]

1 x SPDT relay

Max. load AC1

5 A / 250 VAC

5 A / 250 VAC

8 A / 250 VAC

Max. load DC12

5 A / 24 VDC

5 A / 24 VDC

5 A / 24 VDC

Electrical life

>10⁵ operations

>10⁵ operations

>10⁵ operations

General Specifications

Power supply

24 VDC / 24-240 VAC [CM24]
24-240 VAC/DC [DM24]
12-240 VAC/DC [DW24]

24-240 VAC/DC

24 VDC / 24-240 VAC

Approvals/Marks

CE - UL - CSA - RINA

CE - UL

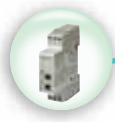
CE - UL

References

DAA51C M24
DAA71D M24
DAA71D W24

FAA01D M24
FAA08D M24

DBA02C M24
PBA02C M24



Types

Delay on release

DBA 52



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

81 x 17.5 x 67.2 [mini-D]

Delay on release.

Function code

Dr

Input Specifications

Time range

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

Output Specifications

1 x SPDT relay

Max. load AC1
Max. load DC12
Electrical life

5 A / 250 VAC
5 A / 24 VDC
>10⁵ operations

General Specifications

Power supply

24 VDC / 24-240 VAC

Approvals/Marks

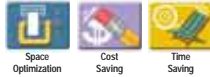
CE - UL

References

DBA52C M24

True delay on release

D/PBB 01 D/PBB 02



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

True delay on release.

Tr

D/PBB01: 0.1 s - 1 s
1 s - 10 s
6 s - 60 s
60 s - 600 s
D/PBB02: 60 s - 600 s
0.1 h - 1 h
1 h - 10 h

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

8 A / 250 VAC
5 A / 24 VDC
>10⁵ operations

24-240 VAC/DC [M24]
12-24 VDC [724]

CE - UL - CSA

DBB01C M24
PBB01C M24
DBB01D M24
PBB01D M24
DBB01C 724
PBB01C 724
DBB01D 724
PBB01D 724
DBB02C M24
PBB02C M24
DBB02D M24
PBB02D M24

DBB 51



81 x 17.5 x 67.2 [mini-D]

True delay on release.

Tr

1 s - 10 s [10S]
6 s - 60 s [1M]
60 s - 600 s [10M]

1 x SPDT relay

5 A / 250 VAC
5 A / 24 VDC
>10⁵ operations

24 VDC / 24-240 VAC










CE

DBB51C M24 10S
DBB51C M24 1M
DBB51C M24 10M





Types

	Recycler		Multifunction
	DCB 01 PCB 01	DCB 51	DMB 01 PMB 01
			
	 	 	 
Dimensions (mm) H x W x D	80 x 22.5 x 99.5 [D] 80 x 36 x 94 [P]	81 x 17.5 x 67.2 [Mini-D]	80 x 22.5 x 99.5 [D] 80 x 36 x 94 [P]
DIN RAIL housing			
Plug-in housing			
Function	Asymmetrical recycler with ON and OFF time first. One shot. Two state delay on operate.	Asymmetrical recycler with ON or OFF first.	Multifunction.
Function code	Aa - Ab - Sh - Dt	Aa - Ab	Op - Dr - In - R - Rb - Id - Io
Input Specifications			
Time range	0.1 - 1 s 1 - 10 s 6 - 60 s 60 s - 600 s 0.1 h - 1 h 1 h - 10 h 10 h - 100 h	0.1 s - 1 s 1 s - 10 s 6 s - 60 s 60 s - 600 s 0.1 h - 1 h 1 h - 10 h 10 h - 100 h	0.1 s - 1 s 1 s - 10 s 6 s - 60 s 60 s - 600 s 0.1 h - 1 h 1 h - 10 h 10 h - 100 h
Output Specifications			
	1 x SPDT relay [C] 2 x SPDT relays [D]	1 x SPDT relay	1 x SPDT relay [C] 1 x DPDT relay [D]
Max. load AC1	8 A / 250 VAC	5 A / 250 VAC	8 A / 250 VAC
Max. load DC12	5 A / 24 VDC	5 A / 24 VDC	5 A / 24 VDC
Electrical life	>10 ⁵ operations	>10 ⁵ operations	>10 ⁵ operations
General Specifications			
Power supply	24 VDC / 24-240 VAC [C] 24-240 VAC/DC [D]	24 VDC / 24-240 VAC	24 VDC / 24-240 VAC [C] 24-240 VAC/DC [D]
Approvals/Marks	CE - UL - CSA	CE - UL - CSA	CE - UL - CSA - RINA
References			
	DCB01C M24 PCB01C M24 DCB01D M24 PCB01D M24	DCB51C M24	DMB01C M24 PMB01C M24 DMB01D M24 PMB01D M24



Multifunction

Types

**DMB 51
DMB 71**



FMB 01



**DMC 01
PMC 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

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

Multifunction.

Op - Dr - In - R - Rb - Id - Io

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

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

5 A / 250 VAC

5 A / 24 VDC

>10⁵ operations

24 VDC / 24-240 VAC [M24]
12-240 VAC/DC [W24]

CE - UL - CSA - RINA

DMB51C M24
DMB51C W24
DMB71D M24
DMB71D W24

48 x 48 x 83.4

Multifunction.

Trigger, Gate and Reset inputs.

Op - Dr - In - R - Rb - Id - Io

Full scale 12	Full scale 30
0.02 - 1.2 s	0.05 - 3 s
0.2 - 12 s	0.5 - 30 s
2 - 120 s	5 - 300 s
0.2 - 12 m	0.5 - 30 m
2 - 120 m	5 - 300 m
0.2 - 12 h	0.5 - 30 h
2 - 120 h	5 - 300 h

1 x DPDT relay

5 A / 250 VAC

5 A / 24 VDC

>10⁵ operations

24-240 VAC/DC

CE - UL

FMB01D M24

80 x 22.5 x 99.5 [D]
80 x 45 x 99.5 [D]
80 x 36 x 94 [P]

Multifunction.

Op - Oa - In - Ia - Nr - Na - Dr

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

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

8 A / 250 VAC

5 A / 24 VDC

>10⁵ operations

24 VDC [724]
24/48 VAC [B48]
115/230 VAC [B23]
24 VAC [024]
115 VAC [115]
230 VAC [230]

CE - UL - CSA

DMC01C 724
DMC01C B23
DMC01C B48
PMC01C 724
PMC01C 024
PMC01C 115
PMC01C 230
DMC01D 724
DMC01D B23
DMC01D B48
PMC01D 029
PMC01D 115
PMC01D 230
PMC01D 724





Types

Multifunction

Mini-E Timers

Fully programmable

FMC 01

EAS EBS
ECS

DHA 51



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

Flush mounting
Function

Function code

Input Specifications

Time range

Output Specifications

Max. load AC1
Max. load DC12
Electrical life

General Specifications

Power supply

Approvals/Marks

References

References:
... = insert code for
Time Range.

Dimensions (mm) H x W x D DIN RAIL housing	48 x 48 x 83
Flush mounting Function	Multifunction.
Function code	

Time range	0.02 s - 999.99 s 0.2 s - 9999.9 s 1 s - 99999 s 0.01 m - 999.99 m 0.1 m - 9999.9 m 1 m - 99999 m 0.01 h - 999.99 h 0.1 h - 9999.9 h 1 h - 99999 h
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1 x SPDT relay	8 A / 250 VAC
Max. load AC1	5 A / 30 VDC
Max. load DC12	>10 ⁵ operations
Electrical life	

Power supply	12-240 VAC/DC
Approvals/Marks	CE - UL

References	FMC01C W24
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Dimensions (mm) H x W x D DIN RAIL housing	56 x 22.5 x 49 [Mini-E] 56 x 22.5 x 44 [Mini-E] [F]
Flush mounting Function	EAS - Delay on operate (automatic start). EBS - Interval (automatic start). ECS - Symmetrical recycler (ON/OFF automatic start) thyristor output. Screw or fast-ON connection. DIN-rail or chassis mounting.
Function code	

Time range	[10S] : 0.5 s - 10 s [1M] : 0.1 m - 1 m [10M] : 1 m - 10 m
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Static output	500 mA, 700 mA [F]
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Power supply	24-230 VAC/DC [EAS] 24-230 VAC [EBS], [ECS]
Approvals/Marks	CE - UL - CSA

References	EAS S M23 . . . EAS S M23 . . . F EBS S M23 . . . EBS S M23 . . . F ECS S M23 A . . . ECS S M23 B . . . ECS S M23 A . . . F ECS S M23 B . . . F
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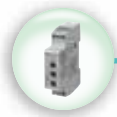
Dimensions (mm) H x W x D DIN RAIL housing	81 x 17.5 x 67.2 [Mini-D]
Flush mounting Function	Fully programmable.
Function code	Whatever needed and much more.

Time range	0.1 s - 99 h each time step
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1 x SPDT relay	5 A / 250 VAC
Max. load AC1	5 A / 24 VDC
Max. load DC12	>10 ⁵ operations
Electrical life	

Power supply	24 VDC / 24-240 VAC
Approvals/Marks	CE - UL - CSA

References	DHA51C M24 S8 DHA51C M24 S16 DHA51C M24 S32
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Types

Fully programmable

DHA 52



Star delta

DAC 01 PAC 01



DAC 51



Dimensions (mm) H x W x D

DIN housing
Plug-in housing

Function

Function code

Input Specifications

Time range

Star to delta relay (neutral centre position)

Output Specifications

Max. load AC1

Max. load DC12

Electrical life

General Specifications

Power supply

Approvals/Marks

References

81 x 17.5 x 67.2 [Mini-D]

Fully programmable.
Whatever needed and
much more.

0.1 s - 99 h each time step
One time step can be set by
the front knob.

1 x SPDT relay

5 A / 250 VAC

5 A / 24 VDC

>10⁵ operations

24 VDC / 24-240 VAC

CE - UL - CSA

DHA52C M24 S16

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

Star delta.

SD

0.1 s - 1 s
1 s - 10 s
6 s - 60 s
60 s - 600 s
50 - 130 ms between
star to delta position

1 x SPDT relay (with neutral
centre position)

8 A / 250 VAC

5 A / 24 VDC

>10⁵ operations

24-240 VAC/DC [M24]
380-415 VAC [M40]

CE - UL - CSA

DAC01C M24
PAC01C M24
DAC01C M40
PAC01C M40

81 x 17.5 x 67.2 [Mini-D]

Star delta.

SD

0.1 s - 1 s
1 s - 10 s
6 s - 60 s
60 s - 600 s
50 - 130 ms between
star to delta position

1 x SPDT relay (with neutral
centre position)

5 A / 250 VAC

5 A / 24 VDC

>10⁵ operations

24-240 VAC/DC

CE - UL - CSA

DAC51C M24



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