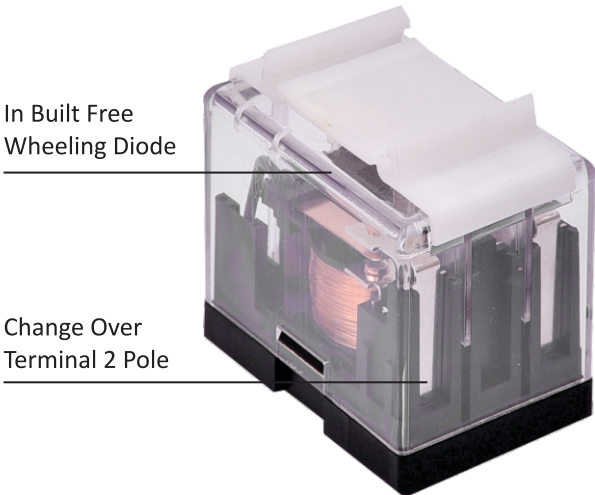


# Catalogue

## P4D Series



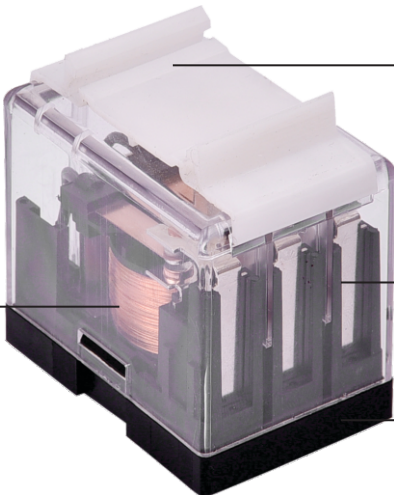
Benefits  
 of the new



In Built Free  
 Wheeling Diode

Change Over  
 Terminal 2 Pole

**P4D-20-2 Pole**



Din Rail  
 Attachment

Change Over  
 Terminal 3 Pole

Clear  
 Polycarbonate  
 Cover

Bobbin

**P4D-20-3 Pole**



Din Rail  
 Attachment

Contact Rating  
 20A @ 250VAC1 / 30VDC 1

Change Over  
 Terminal 4 Pole

**P4D-20-4 Pole**



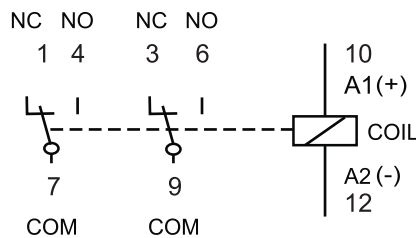
## P4D-20-2

**Directly Suitable for DIN Rail Mounting  
(without Socket)**

**General Purpose 2 C/O Relay**

**20A @ 250 VAC 1**

**20A @ 30 VDC 1**



### Contact Specifications

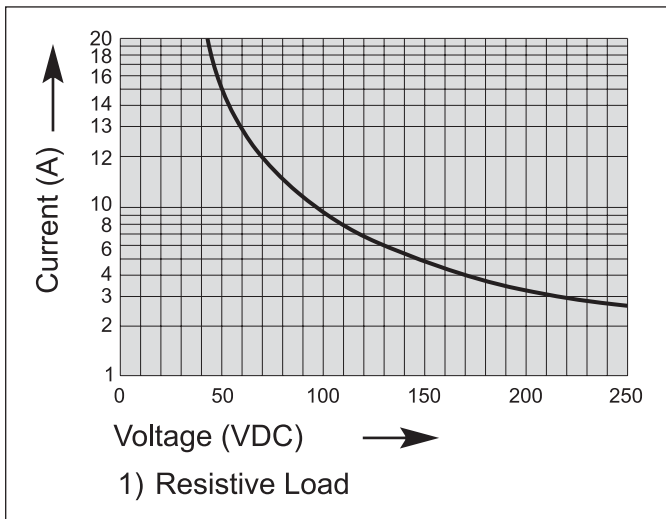
Materials	: Standard	: AgCuNi
Contact Configuration	: 2 C/O	
Nominal Switching Capacity	: 250 VAC 20A AC1	30 VDC 20A DC1
Electric Life Expectancy	: 250 VAC 20A AC1	apprx. 100,000 operations (360 operations / h)
Contact Make and Carry	: 20A for 3 secs / 5A @ 660VAC	
Switching Current Range	: 500mA to 20A	
Max. Switching Current	: 60A for 20ms	
Coil power	: 8 VA (W) to 7500 VA	
Contact Resistance	: 20m $\Omega$	

### Specifications

Mechanical Life Expectancy	: 20 Million operations
Mechanical Switching Frequency	: 20 Hz
Pull-in-time	: 10 ms at DC / 6-14 ms at AC
Release Time	: 2.5 ms at DC / 2-12 ms at AC
Bounce time normally	: 2.0 ms at DC / 3-8 ms at AC
Shock Resistance	: AK : > 10g
Vibration Resistance	: 10-55 Hz, AK : 10g, RK: 3g
Test Voltage, coil/contact (1.2/50 $\mu$ s)	: > 5 KV
Test voltage, open contact	: 2.5 KV
Insulation Resistance	: 100 M ohms Min. @ 500VDC
Weight	: app. 150 g
Insulation Situation	: any
Ambient Temperature	: - 40° C to + 70° C
Protection Standard	: IP 40

### Graph

### Max. DC Load



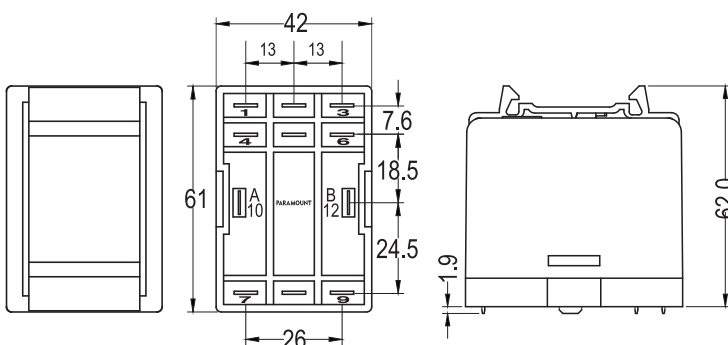
### Standard coils for DC & AC (other voltages on enquiry)

Rated Voltage	Pull-in Voltage @ 20° C	Drop Out Voltage	Nominal Current mA	Resistance in $\Omega$ at 20° C	Tolerance %
12 VDC	9.00	$\geq 1.2$	58.50	410	$\pm 10\%$
24 VDC	18.00	$\geq 1.2$	58.50	410	$\pm 10\%$
48 VDC	36.00	$\geq 2.4$	30.00	1600	$\pm 10\%$
110 VDC	82.50	$\geq 5.5$	13.80	8000	$\pm 10\%$
220 VDC	165.00	$\geq 10.0$	7.00	32000	$\pm 10\%$

12 VAC	10.20	$\geq 0.6$	260.00	10	$\pm 10\%$
24 VAC	20.40	$\geq 1.2$	130.00	40	$\pm 10\%$
48 VAC	40.80	$\geq 2.4$	60.00	180	$\pm 10\%$
110 VAC	93.50	$\geq 5.5$	29.00	950	$\pm 10\%$
230 VAC	187.00	$\geq 11.0$	14.00	3900	$\pm 10\%$

### Dimensions

in mm.



### Standard Types

**AC : 12, 24, 48, 110, 230 VAC - 50Hz**

V = Variastor for 110 / 230 VAC

R = RC Circuit for 110 / 230 VAC

P4D-20-2-V.....VAC

P4D-20-2-R.....VAC

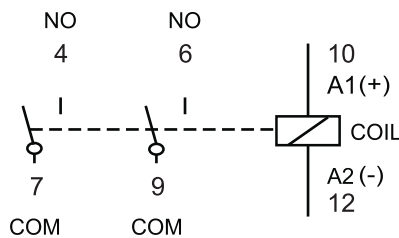
**DC : 12, 24, 48, 110, 220 VDC**

W = Free Wheeling Diode

P4D-20-2-W.....VDC

Approvals





## P4D-20-2A

**Directly Suitable for DIN Rail Mounting  
(without Socket)**

**General Purpose 2 N/O Relay**

**20A @ 250 VAC 1**

**20A @ 30 VDC 1**

### Contact Specifications

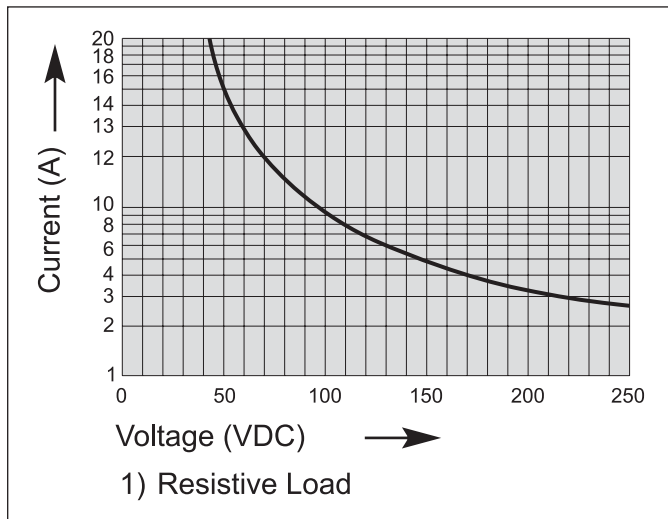
Materials :	Standard	:	AgCuNi
Contact Configuration	:	2 N/O	
Nominal Switching Capacity	:	250 VAC 20A AC1 30 VDC 20A DC1	
Electric Life Expectancy	:	250 VAC 20A AC1 apprx. 100,000 operations (360 operations / h)	
Contact Make and Carry	:	20A for 3 secs / 5A @ 660VAC	
Switching Current Range	:	500mA to 20A	
Max. Switching Current	:	60A for 20ms	
Coil power	:	8 VA (W) to 7500 VA	
Contact Resistance	:	20m $\Omega$	

### Specifications

Mechanical Life Expectancy	:	20 Million operations
Mechanical Switching Frequency	:	20 Hz
Pull-in-time	:	10 ms at DC / 6-14 ms at AC
Release Time	:	2,5 ms at DC / 2-12 ms at AC
Bounce time normally	:	2,0 ms at DC / 3-8 ms at AC
Shock Resistance	:	AK : > 10g
Vibration Resistance	:	10-55 Hz, AK : 10g, RK: 3g
Test Voltage, coil/contact (1.2/50 $\mu$ s)	:	> 5 KV
Test voltage, open contact	:	2,5 KV
Insulation Resistance	:	100 M ohms Min. @ 500VDC
Weight	:	app. 150 g
Insulation Situation	:	any
Ambient Temperature	:	- 40° C to + 70° C
Protection Standard	:	IP 40

### Graph

### Max. DC Load



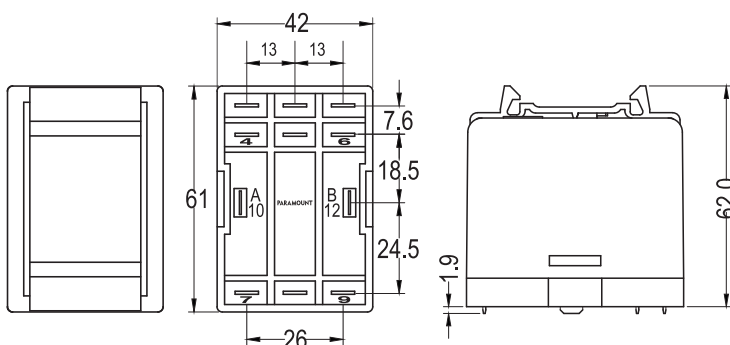
### Standard coils for DC & AC (other voltages on enquiry)

Rated Voltage	Pull-in Voltage @ 20° C	Drop Out Voltage	Nominal Current mA	Resistance in $\Omega$ at 20° C	Tolerance %
12 VDC	9.00	$\geq 1.2$	58.50	410	$\pm 10\%$
24 VDC	18.00	$\geq 1.2$	58.50	410	$\pm 10\%$
48 VDC	36.00	$\geq 2.4$	30.00	1600	$\pm 10\%$
110 VDC	82.50	$\geq 5.5$	13.80	8000	$\pm 10\%$
220 VDC	165.00	$\geq 10.0$	7.00	32000	$\pm 10\%$

12 VAC	10.20	$\geq 0.6$	260.00	10	$\pm 10\%$
24 VAC	20.40	$\geq 1.2$	130.00	40	$\pm 10\%$
48 VAC	40.80	$\geq 2.4$	60.00	180	$\pm 10\%$
110 VAC	93.50	$\geq 5.5$	29.00	950	$\pm 10\%$
230 VAC	187.00	$\geq 11.0$	14.00	3900	$\pm 10\%$

### Dimensions

in mm.



### Standard Types

**AC : 12, 24, 48, 110, 230 VAC - 50Hz**

V = Variastor for 110 / 230 VAC

R = RC Circuit for 110 / 230 VAC

P4D-20-2A-V.....VAC

P4D-20-2A-R.....VAC

**DC : 12, 24, 48, 110, 220 VDC**

W = Free Wheeling Diode

P4D-20-2A-W.....VDC

Approvals





# P4D-20-X

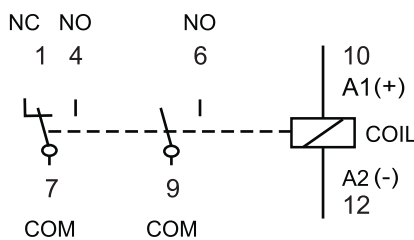
**Directly Suitable for DIN Rail Mounting  
(without Socket)**

**General Purpose 1 N/O + 1 N/C Relay**  
**20A @ 250 VAC 1**  
**20A @ 30 VDC 1**



## Contact Specifications

Materials	: Standard	: AgCuNi
Contact Configuration	: 1 N/O + 1 N/C	
Nominal Switching Capacity	: 250 VAC 20A AC1	30 VDC 20A DC1
Electric Life Expectancy	: 250 VAC 20A AC1	apprx. 100,000 operations (360 operations / h)
Contact Make and Carry	: 20A for 3 secs / 5A @ 660VAC	
Switching Current Range	: 500mA to 20A	
Max. Switching Current	: 60A for 20ms	
Coil power	: 8 VA (W) to 7500 VA	
Contact Resistance	: 20m Ω	

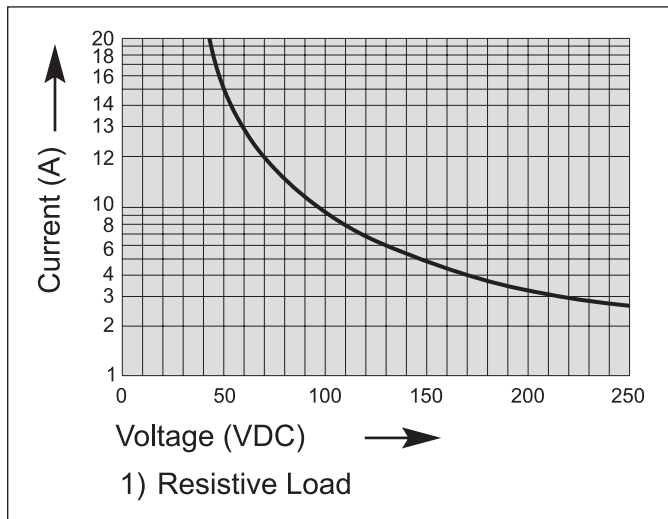


## Specifications

Mechanical Life Expectancy	: 20 Million operations
Mechanical Switching Frequency	: 20 Hz
Pull-in-time	: 10 ms at DC / 6-14 ms at AC
Release Time	: 2,5 ms at DC / 2-12 ms at AC
Bounce time normally	: 2,0 ms at DC / 3-8 ms at AC
Shock Resistance	: AK : > 10g
Vibration Resistance	: 10-55 Hz, AK : 10g, RK: 3g
Test Voltage, coil/contact (1.2/50 μs)	: > 5 KV
Test voltage, open contact	: 2,5 KV
Insulation Resistance	: 100 M ohms Min. @ 500VDC
Weight	: app. 150 g
Insulation Situation	: any
Ambient Temperature	: - 40° C to + 70° C
Protection Standard	: IP 40

## Graph

### Max. DC Load



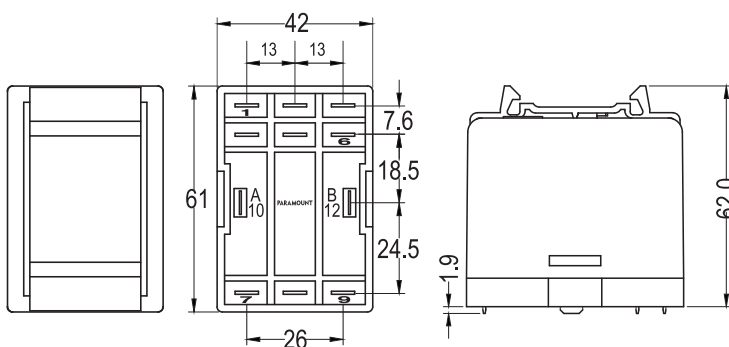
## Standard coils for DC & AC (other voltages on enquiry)

Rated Voltage	Pull-in Voltage @ 20° C	Drop Out Voltage	Nominal Current mA	Resistance in Ω at 20° C	Tolerance %
12 VDC	9.00	≥ 1.2	58.50	410	± 10%
24 VDC	18.00	≥ 1.2	58.50	410	± 10%
48 VDC	36.00	≥ 2.4	30.00	1600	± 10%
110 VDC	82.50	≥ 5.5	13.80	8000	± 10%
220 VDC	165.00	≥ 10.0	7.00	32000	± 10%

12 VAC	10.20	≥ 0.6	260.00	10	± 10%
24 VAC	20.40	≥ 1.2	130.00	40	± 10%
48 VAC	40.80	≥ 2.4	60.00	180	± 10%
110 VAC	93.50	≥ 5.5	29.00	950	± 10%
230 VAC	187.00	≥ 11.0	14.00	3900	± 10%

## Dimensions

in mm.



## Standard Types

**AC : 12, 24, 48, 110, 230 VAC - 50Hz**

V = Variastor for 110 / 230 VAC  
R = RC Circuit for 110 / 230 VAC

P4D-20-X-V.....VAC  
P4D-20-X-R.....VAC

**DC : 12, 24, 48, 110, 220 VDC**

W = Free Wheeling Diode

P4D-20-X-W.....VDC

Approvals





## P4D-20-Y

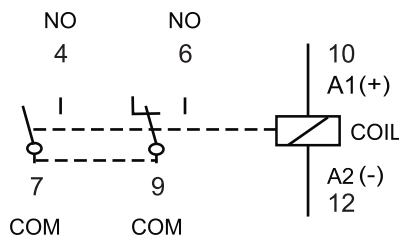
**Directly Suitable for DIN Rail Mounting  
(without Socket)**

**General Purpose 1 N/O Double Break Relay**  
**20A @ 250 VAC 1**  
**20A @ 30 VDC 1**



### Contact Specifications

Materials	: Standard	: AgCuNi
Contact Configuration	: 1 N/O Double Break	
Nominal Switching Capacity	: 250 VAC 20A AC1	30 VDC 20A DC1
Electric Life Expectancy	: 250 VAC 20A AC1	apprx. 100,000 operations (360 operations / h)
Contact Make and Carry	: 20A for 3 secs / 5A @ 660VAC	
Switching Current Range	: 500mA to 20A	
Max. Switching Current	: 60A for 20ms	
Coil power	: 8 VA (W) to 7500 VA	
Contact Resistance	: 20m Ω	

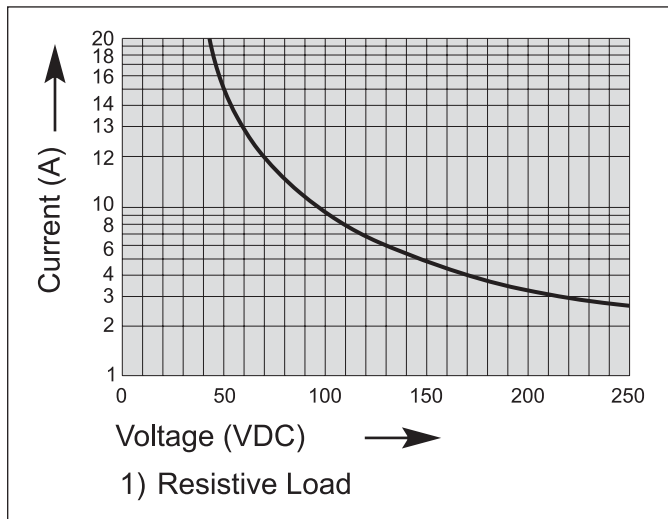


### Specifications

Mechanical Life Expectancy	: 20 Million operations
Mechanical Switching Frequency	: 20 Hz
Pull-in-time	: 10 ms at DC / 6-14 ms at AC
Release Time	: 2,5 ms at DC / 2-12 ms at AC
Bounce time normally	: 2,0 ms at DC / 3-8 ms at AC
Shock Resistance	: AK : > 10g
Vibration Resistance	: 10-55 Hz, AK : 10g, RK: 3g
Test Voltage, coil/contact (1.2/50 μs)	: > 5 KV
Test voltage, open contact	: 2,5 KV
Insulation Resistance	: 100 M ohms Min. @ 500VDC
Weight	: app. 150 g
Insulation Situation	: any
Ambient Temperature	: - 40° C to + 70° C
Protection Standard	: IP 40

### Graph

### Max. DC Load



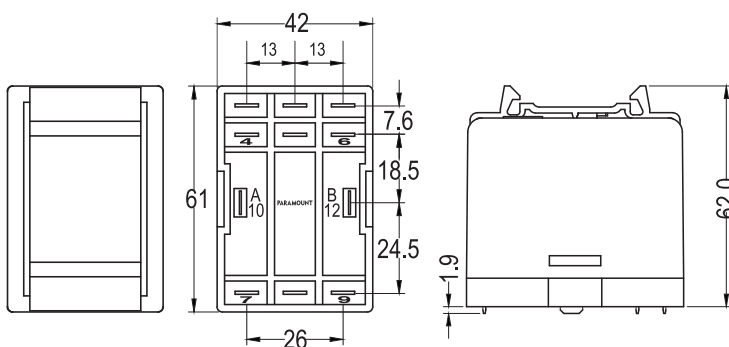
### Standard coils for DC & AC (other voltages on enquiry)

Rated Voltage	Pull-in Voltage @ 20° C	Drop Out Voltage	Nominal Current mA	Resistance in Ω at 20° C	Tolerance %
12 VDC	9.00	≥ 1.2	58.50	410	± 10%
24 VDC	18.00	≥ 1.2	58.50	410	± 10%
48 VDC	36.00	≥ 2.4	30.00	1600	± 10%
110 VDC	82.50	≥ 5.5	13.80	8000	± 10%
220 VDC	165.00	≥ 10.0	7.00	32000	± 10%

12 VAC	10.20	≥ 0.6	260.00	10	± 10%
24 VAC	20.40	≥ 1.2	130.00	40	± 10%
48 VAC	40.80	≥ 2.4	60.00	180	± 10%
110 VAC	93.50	≥ 5.5	29.00	950	± 10%
230 VAC	187.00	≥ 11.0	14.00	3900	± 10%

### Dimensions

in mm.



### Standard Types

**AC : 12, 24, 48, 110, 230 VAC - 50Hz**

V = Variastor for 110 / 230 VAC  
R = RC Circuit for 110 / 230 VAC

P4D-20-YV.....VAC  
P4D-20-YR.....VAC

**DC : 12, 24, 48, 110, 220 VDC**

W = Free Wheeling Diode

P4D-20-YW.....VDC

Approvals





# P4D-20-M

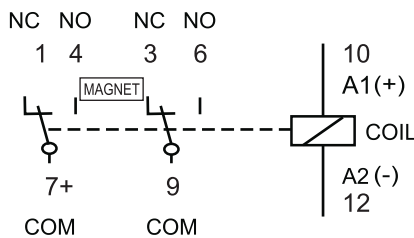


**Directly Suitable for DIN Rail Mounting  
(without Socket)**

**Magnetic Blow Out 2 C/O Relay**

**20A @ 250 VAC 1 10A @ 220 VDC 1**

**20A @ 30 VDC 1**



## Contact Specifications

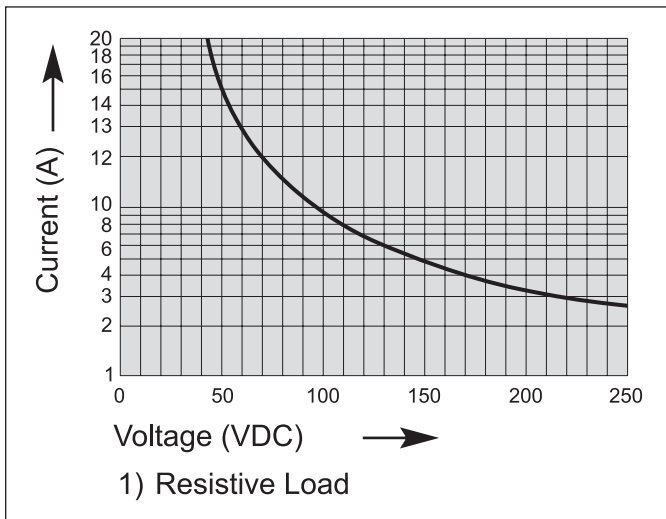
Materials :	Standard	:	AgCuNi
Contact Configuration	:	2 C/O	
Nominal Switching Capacity	:	250 VAC 20A AC1 30 VDC 20A DC1	
Electric Life Expectancy	:	250 VAC 20A AC1 apprx. 100,000 operations (360 operations / h)	
Contact Make and Carry	:	20A for 3 secs / 5A @ 660VAC	
Switching Current Range	:	500mA to 20A	
Max. Switching Current	:	60A for 20ms	
Coil power	:	8 VA (W) to 7500 VA	
Contact Resistance	:	20m Ω	

## Specifications

Mechanical Life Expectancy	:	20 Million operations
Mechanical Switching Frequency	:	20 Hz
Pull-in-time	:	10 ms at DC / 6-14 ms at AC
Release Time	:	2,5 ms at DC / 2-12 ms at AC
Bounce time normally	:	2,0 ms at DC / 3-8 ms at AC
Shock Resistance	:	AK : > 10g
Vibration Resistance	:	10-55 Hz, AK : 10g, RK: 3g
Test Voltage, coil/contact (1.2/50 μs)	:	> 5 KV
Test voltage, open contact	:	2,5 KV
Insulation Resistance	:	100 M ohms Min. @ 500VDC
Weight	:	app. 150 g
Insulation Situation	:	any
Ambient Temperature	:	- 40° C to + 70° C
Protection Standard	:	IP 40

## Graph

## Max. DC Load



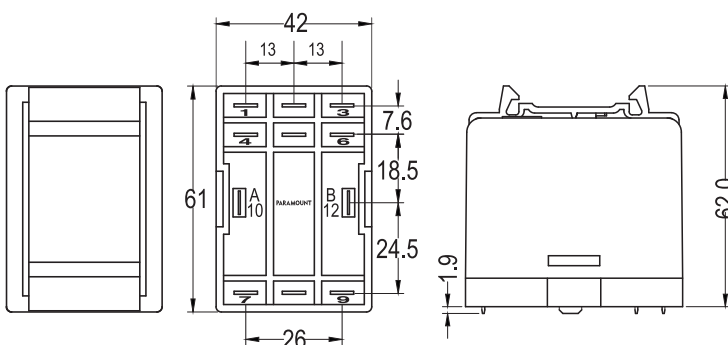
## Standard coils for DC & AC (other voltages on enquiry)

Rated Voltage	Pull-in Voltage @ 20° C	Drop Out Voltage	Nominal Current mA	Resistance in Ω at 20° C	Tolerance %
12 VDC	9.00	≥ 1.2	58.50	410	± 10%
24 VDC	18.00	≥ 1.2	58.50	410	± 10%
48 VDC	36.00	≥ 2.4	30.00	1600	± 10%
110 VDC	82.50	≥ 5.5	13.80	8000	± 10%
220 VDC	165.00	≥ 10.0	7.00	32000	± 10%

12 VAC	10.20	≥ 0.6	260.00	10	± 10%
24 VAC	20.40	≥ 1.2	130.00	40	± 10%
48 VAC	40.80	≥ 2.4	60.00	180	± 10%
110 VAC	93.50	≥ 5.5	29.00	950	± 10%
230 VAC	187.00	≥ 11.0	14.00	3900	± 10%

## Dimensions

in mm.



## Standard Types

**AC : 12, 24, 48, 110, 230 VAC - 50Hz**

V = Variastor for 110 / 230 VAC

R = RC Circuit for 110 / 230 VAC

P4D-20-V-M.....VAC

P4D-20-R-M.....VAC

**DC : 12, 24, 48, 110, 220 VDC**

W = Free Wheeling Diode

P4D-20-W-M.....VDC

Approvals





# P4D-20-A-M

**Directly Suitable for DIN Rail Mounting  
(without Socket)**

**Magnetic Blow Out 2 N/O Relay**

**20A @ 250 VAC 1 5A @ 220 VDC 1**

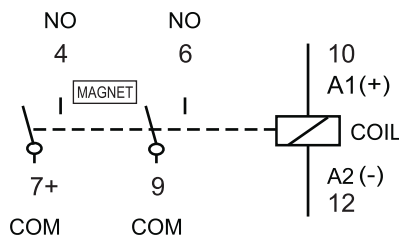
**20A @ 30 VDC 1**

## Contact Specifications

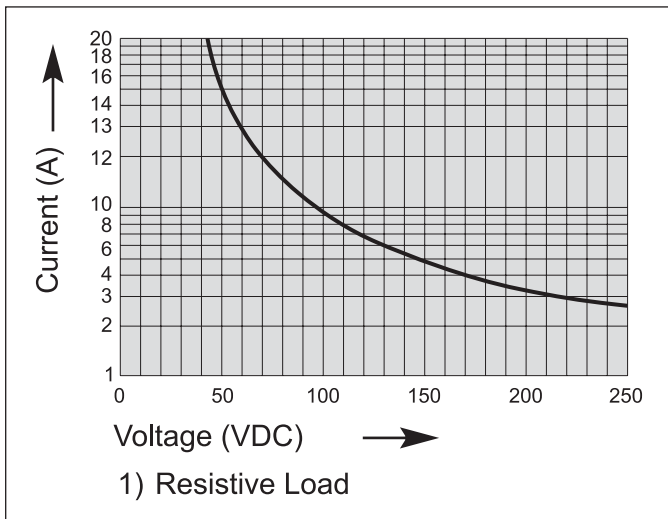
Materials :	Standard	:	AgCuNi
Contact Configuration	:	2 N/O	
Nominal Switching Capacity	:	250 VAC 20A AC1 30 VDC 20A DC1	
Electric Life Expectancy	:	250 VAC 20A AC1 apprx. 100,000 operations (360 operations / h)	
Contact Make and Carry	:	20A for 3 secs / 5A @ 660VAC	
Switching Current Range	:	500mA to 20A	
Max. Switching Current	:	60A for 20ms	
Coil power	:	8 VA (W) to 7500 VA	
Contact Resistance	:	20m $\Omega$	

## Specifications

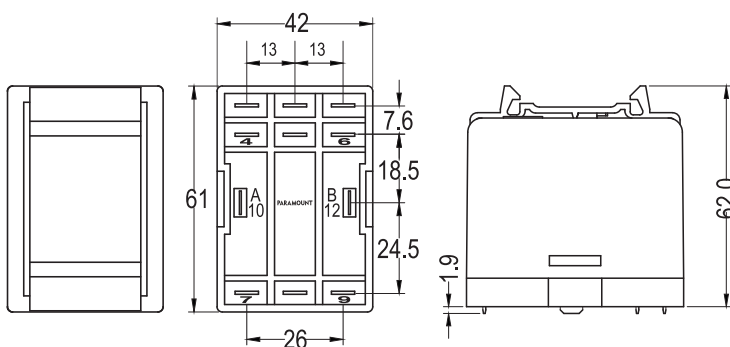
Mechanical Life Expectancy	:	20 Million operations
Mechanical Switching Frequency	:	20 Hz
Pull-in-time	:	10 ms at DC / 6-14 ms at AC
Release Time	:	2,5 ms at DC / 2-12 ms at AC
Bounce time normally	:	2,0 ms at DC / 3-8 ms at AC
Shock Resistance	:	AK : > 10g
Vibration Resistance	:	10-55 Hz, AK : 10g, RK: 3g
Test Voltage, coil/contact (1.2/50 $\mu$ s)	:	> 5 KV
Test voltage, open contact	:	2,5 KV
Insulation Resistance	:	100 M ohms Min. @ 500VDC
Weight	:	app. 150 g
Insulation Situation	:	any
Ambient Temperature	:	- 40° C to + 70° C
Protection Standard	:	IP 40



## Graph Max. DC Load



## Dimensions in mm.



## Standard coils for DC & AC (other voltages on enquiry)

Rated Voltage	Pull-in Voltage @ 20° C	Drop Out Voltage	Nominal Current mA	Resistance in $\Omega$ at 20° C	Tolerance %
12 VDC	9.00	$\geq 1.2$	58.50	410	$\pm 10\%$
24 VDC	18.00	$\geq 1.2$	58.50	410	$\pm 10\%$
48 VDC	36.00	$\geq 2.4$	30.00	1600	$\pm 10\%$
110 VDC	82.50	$\geq 5.5$	13.80	8000	$\pm 10\%$
220 VDC	165.00	$\geq 10.0$	7.00	32000	$\pm 10\%$

12 VAC	10.20	$\geq 0.6$	260.00	10	$\pm 10\%$
24 VAC	20.40	$\geq 1.2$	130.00	40	$\pm 10\%$
48 VAC	40.80	$\geq 2.4$	60.00	180	$\pm 10\%$
110 VAC	93.50	$\geq 5.5$	29.00	950	$\pm 10\%$
230 VAC	187.00	$\geq 11.0$	14.00	3900	$\pm 10\%$

## Standard Types

**AC : 12, 24, 48, 110, 230 VAC - 50Hz**

V = Variastor for 110 / 230 VAC

R = RC Circuit for 110 / 230 VAC

P4D-20-A-V-M.....VAC

P4D-20-A-R-M.....VAC

**DC : 12, 24, 48, 110, 220 VDC**

W = Free Wheeling Diode

P4D-20-A-W-M.....VDC

Approvals





## P4D-20-X-M



**Directly Suitable for DIN Rail Mounting  
(without Socket)**

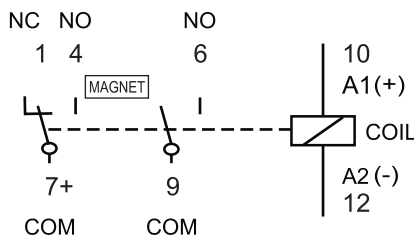
**Magnetic Blow Out 1 N/O + 1 N/C Relay**  
**20A @ 250 VAC 1 5A @ 220 VDC 1**  
**20A @ 30 VDC 1**

### Contact Specifications

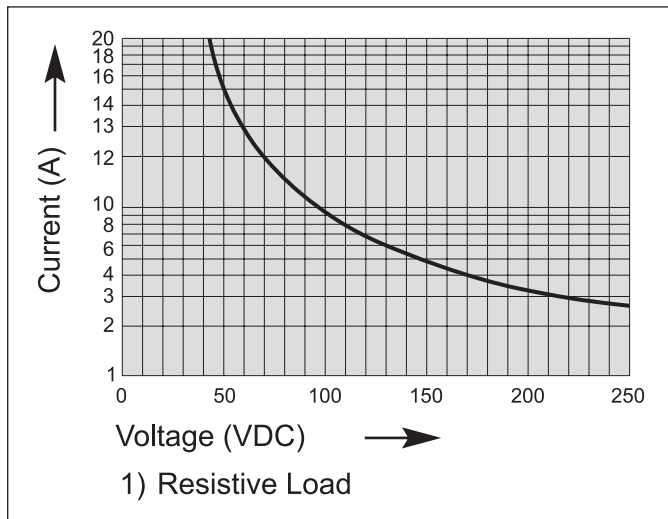
Materials :	Standard	:	AgCuNi
Contact Configuration	:	1 N/O + 1 N/C	
Nominal Switching Capacity	:	250 VAC 20A AC1 30 VDC 20A DC1	
Electric Life Expectancy	:	250 VAC 20A AC1 apprx. 100,000 operations (360 operations / h)	
Contact Make and Carry	:	20A for 3 secs / 5A @ 660VAC	
Switching Current Range	:	500mA to 20A	
Max. Switching Current	:	60A for 20ms	
Coil power	:	8 VA (W) to 7500 VA	
Contact Resistance	:	20m Ω	

### Specifications

Mechanical Life Expectancy	:	20 Million operations
Mechanical Switching Frequency	:	20 Hz
Pull-in-time	:	10 ms at DC / 6-14 ms at AC
Release Time	:	2,5 ms at DC / 2-12 ms at AC
Bounce time normally	:	2,0 ms at DC / 3-8 ms at AC
Shock Resistance	:	AK : > 10g
Vibration Resistance	:	10-55 Hz, AK : 10g, RK: 3g
Test Voltage, coil/contact (1.2/50 μs)	:	> 5 KV
Test voltage, open contact	:	2,5 KV
Insulation Resistance	:	100 M ohms Min. @ 500VDC
Weight	:	app. 150 g
Insulation Situation	:	any
Ambient Temperature	:	- 40° C to + 70° C
Protection Standard	:	IP 40



### Graph Max. DC Load

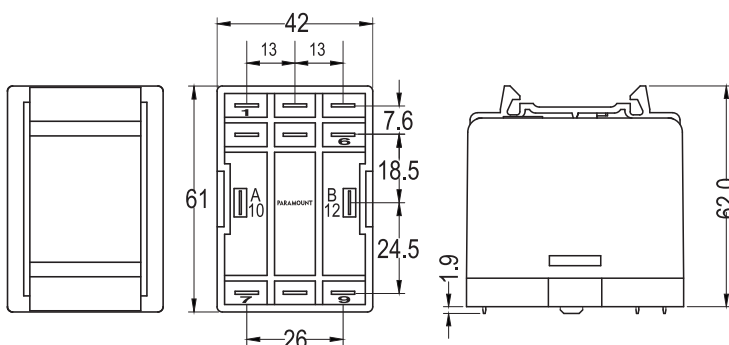


### Standard coils for DC & AC (other voltages on enquiry)

Rated Voltage	Pull-in Voltage @ 20° C	Drop Out Voltage	Nominal Current mA	Resistance in Ω at 20° C	Tolerance %
12 VDC	9.00	≥ 1.2	58.50	410	± 10%
24 VDC	18.00	≥ 1.2	58.50	410	± 10%
48 VDC	36.00	≥ 2.4	30.00	1600	± 10%
110 VDC	82.50	≥ 5.5	13.80	8000	± 10%
220 VDC	165.00	≥ 10.0	7.00	32000	± 10%

12 VAC	10.20	≥ 0.6	260.00	10	± 10%
24 VAC	20.40	≥ 1.2	130.00	40	± 10%
48 VAC	40.80	≥ 2.4	60.00	180	± 10%
110 VAC	93.50	≥ 5.5	29.00	950	± 10%
230 VAC	187.00	≥ 11.0	14.00	3900	± 10%

### Dimensions in mm.



### Standard Types

**AC : 12, 24, 48, 110, 230 VAC - 50Hz**

V = Variastor for 110 / 230 VAC  
R = RC Circuit for 110 / 230 VAC

P4D-20-X-V-M.....VAC  
P4D-20-X-R-M.....VAC

**DC : 12, 24, 48, 110, 220 VDC**

W = Free Wheeling Diode

P4D-20-X-W-M.....VDC

Approvals





## P4D-20-Y-M



**Directly Suitable for DIN Rail Mounting  
(without Socket)**

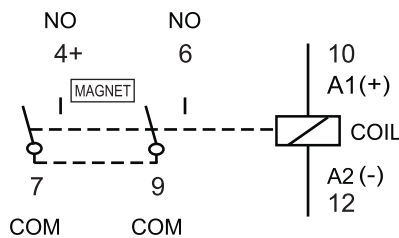
**Magnetic Blow Out 1 N/O Double Break Relay**  
**20A @ 250 VAC 1 5A @ 220 VDC 1**  
**20A @ 30 VDC 1**

### Contact Specifications

Materials	: Standard	: AgCuNi
Contact Configuration	: 1 N/O Double Break	
Nominal Switching Capacity	: 250 VAC 20A AC1	30 VDC 20A DC1
Electric Life Expectancy	: 250 VAC 20A AC1	apprx. 100,000 operations (360 operations / h)
Contact Make and Carry	: 20A for 3 secs / 5A @ 660VAC	
Switching Current Range	: 500mA to 20A	
Max. Switching Current	: 60A for 20ms	
Coil power	: 8 VA (W) to 7500 VA	
Contact Resistance	: 20m Ω	

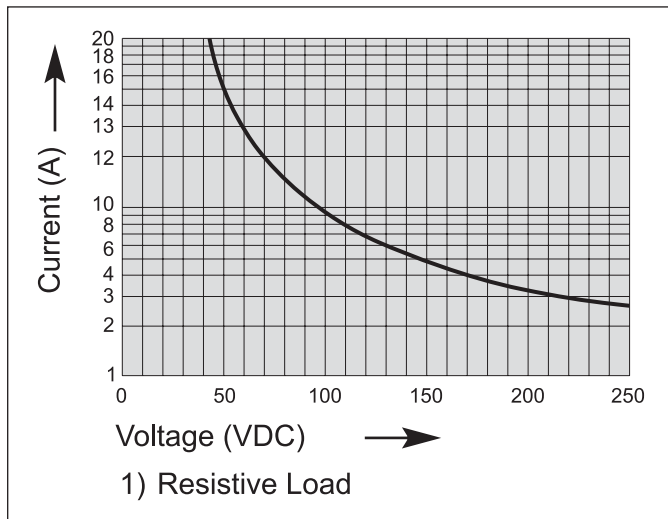
### Specifications

Mechanical Life Expectancy	: 20 Million operations
Mechanical Switching Frequency	: 20 Hz
Pull-in-time	: 10 ms at DC / 6-14 ms at AC
Release Time	: 2.5 ms at DC / 2-12 ms at AC
Bounce time normally	: 2.0 ms at DC / 3-8 ms at AC
Shock Resistance	: AK : > 10g
Vibration Resistance	: 10-55 Hz, AK : 10g, RK: 3g
Test Voltage, coil/contact (1.2/50 μs)	: > 5 KV
Test voltage, open contact	: 2.5 KV
Insulation Resistance	: 100 M ohms Min. @ 500VDC
Weight	: app. 150 g
Insulation Situation	: any
Ambient Temperature	: - 40° C to + 70° C
Protection Standard	: IP 40



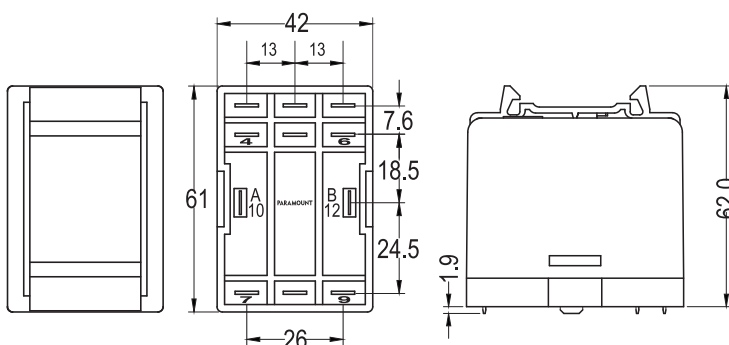
### Graph

### Max. DC Load



### Dimensions

in mm.



### Standard coils for DC & AC (other voltages on enquiry)

Rated Voltage	Pull-in Voltage @ 20° C	Drop Out Voltage	Nominal Current mA	Resistance in Ω at 20° C	Tolerance %
12 VDC	9.00	≥ 1.2	58.50	410	± 10%
24 VDC	18.00	≥ 1.2	58.50	410	± 10%
48 VDC	36.00	≥ 2.4	30.00	1600	± 10%
110 VDC	82.50	≥ 5.5	13.80	8000	± 10%
220 VDC	165.00	≥ 10.0	7.00	32000	± 10%

12 VAC	10.20	≥ 0.6	260.00	10	± 10%
24 VAC	20.40	≥ 1.2	130.00	40	± 10%
48 VAC	40.80	≥ 2.4	60.00	180	± 10%
110 VAC	93.50	≥ 5.5	29.00	950	± 10%
230 VAC	187.00	≥ 11.0	14.00	3900	± 10%

### Standard Types

**AC : 12, 24, 48, 110, 230 VAC - 50Hz**

V = Variastor for 110 / 230 VAC  
R = RC Circuit for 110 / 230 VAC

P4D-20-YV-M.....VAC  
P4D-20-YR-M.....VAC

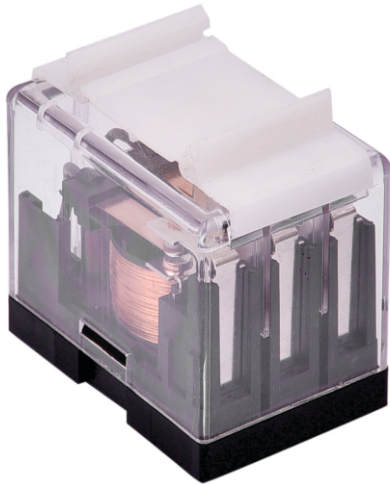
**DC : 12, 24, 48, 110, 220 VDC**

W = Free Wheeling Diode

P4D-20-YW-M.....VDC

Approvals





## P4D-20-3

**Directly Suitable for DIN Rail Mounting  
(without Socket)**

**General Purpose 3 C/O Relay**

**20A @ 250 VAC 1**

**20A @ 30 VDC 1**

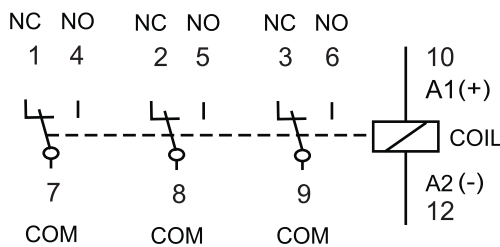


### Contact Specifications

Materials :	Standard	:	AgCuNi
Contact Configuration	:	3 C/O	
Nominal Switching Capacity	:	250 VAC 20A AC1 30 VDC 20A DC1	
Electric Life Expectancy	:	250 VAC 20A AC1 apprx. 100,000 operations (360 operations / h)	
Contact Make and Carry	:	20A for 3 secs / 5A @ 660VAC	
Switching Current Range	:	500mA to 20A	
Max. Switching Current	:	60A for 20ms	
Coil power	:	8 VA (W) to 7500 VA	
Contact Resistance	:	20m Ω	

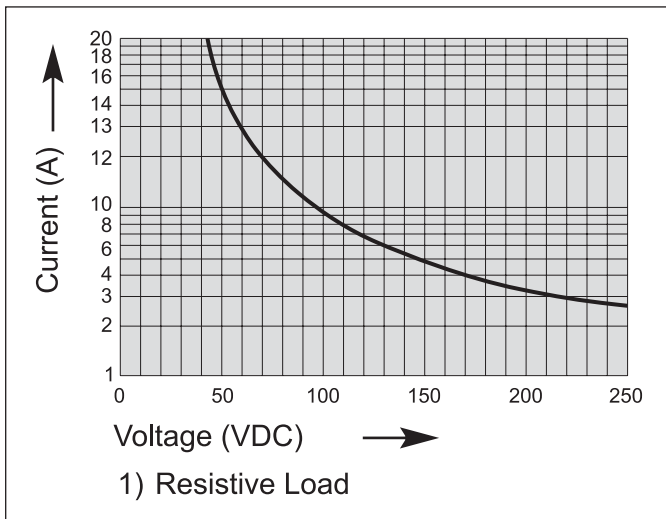
### Specifications

Mechanical Life Expectancy	:	20 Million operations
Mechanical Switching Frequency	:	20 Hz
Pull-in-time	:	10 ms at DC / 6-14 ms at AC
Release Time	:	2,5 ms at DC / 2-12 ms at AC
Bounce time normally	:	2,0 ms at DC / 3-8 ms at AC
Shock Resistance	:	AK : > 10g
Vibration Resistance	:	10-55 Hz, AK : 10g, RK: 3g
Test Voltage, coil/contact (1.2/50 μs)	:	> 5 KV
Test voltage, open contact	:	2,5 KV
Insulation Resistance	:	100 M ohms Min. @ 500VDC
Weight	:	app. 150 g
Insulation Situation	:	any
Ambient Temperature	:	- 40° C to + 70° C
Protection Standard	:	IP 40



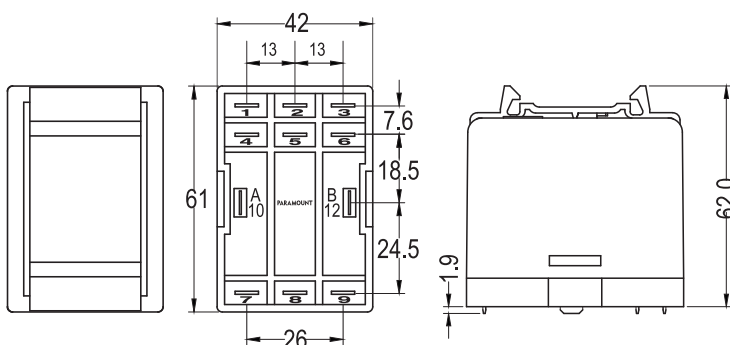
### Graph

### Max. DC Load



### Dimensions

in mm.



### Standard coils for DC & AC (other voltages on enquiry)

Rated Voltage	Pull-in Voltage @ 20° C	Drop Out Voltage	Nominal Current mA	Resistance in Ω at 20° C	Tolerance %
12 VDC	9.00	≥ 1.2	58.50	410	± 10%
24 VDC	18.00	≥ 1.2	58.50	410	± 10%
48 VDC	36.00	≥ 2.4	30.00	1600	± 10%
110 VDC	82.50	≥ 5.5	13.80	8000	± 10%
220 VDC	165.00	≥ 10.0	7.00	32000	± 10%

12 VAC	10.20	≥ 0.6	260.00	10	± 10%
24 VAC	20.40	≥ 1.2	130.00	40	± 10%
48 VAC	40.80	≥ 2.4	60.00	180	± 10%
110 VAC	93.50	≥ 5.5	29.00	950	± 10%
230 VAC	187.00	≥ 11.0	14.00	3900	± 10%

### Standard Types

**AC : 12, 24, 48, 110, 230 VAC - 50Hz**

V = Variastor for 110 / 230 VAC

R = RC Circuit for 110 / 230 VAC

P4D-20-3-V.....VAC

P4D-20-3-R.....VAC

**DC : 12, 24, 48, 110, 220 VDC**

W = Free Wheeling Diode

P4D-20-3-W.....VDC

Approvals





## P4D-20-3A

**Directly Suitable for DIN Rail Mounting  
(without Socket)**

**General Purpose 3 N/O Relay**

**20A @ 250 VAC 1**

**20A @ 30 VDC 1**

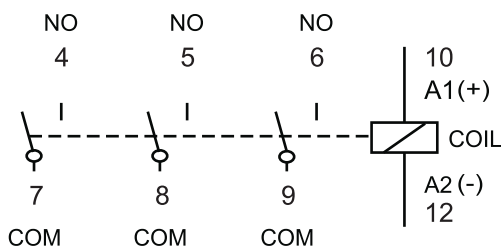


### Contact Specifications

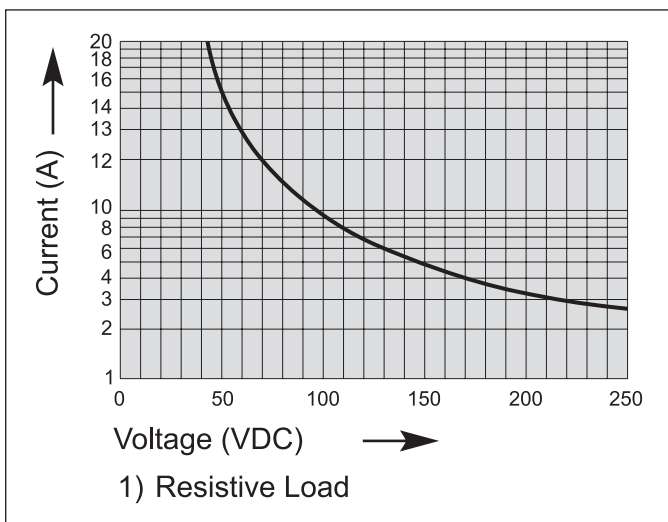
Materials	: Standard	: AgCuNi
Contact Configuration	: 3 N/O	
Nominal Switching Capacity	: 250 VAC 20A AC1	30 VDC 20A DC1
Electric Life Expectancy	: 250 VAC 20A AC1	apprx. 100,000 operations (360 operations / h)
Contact Make and Carry	: 20A for 3 secs / 5A @ 660VAC	
Switching Current Range	: 500mA to 20A	
Max. Switching Current	: 60A for 20ms	
Coil power	: 8 VA (W) to 7500 VA	
Contact Resistance	: 20m Ω	

### Specifications

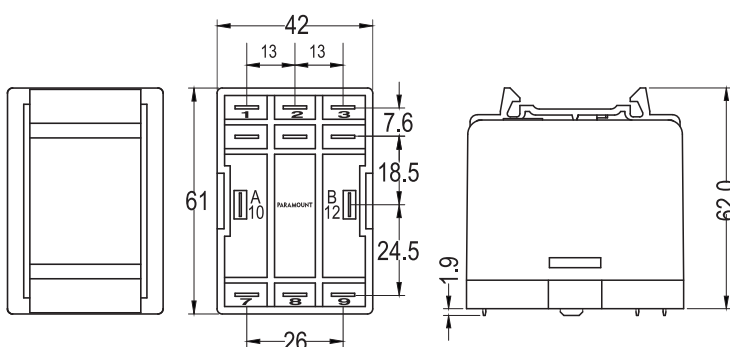
Mechanical Life Expectancy	: 20 Million operations
Mechanical Switching Frequency	: 20 Hz
Pull-in-time	: 10 ms at DC / 6-14 ms at AC
Release Time	: 2.5 ms at DC / 2-12 ms at AC
Bounce time normally	: 2.0 ms at DC / 3-8 ms at AC
Shock Resistance	: AK : > 10g
Vibration Resistance	: 10-55 Hz, AK : 10g, RK: 3g
Test Voltage, coil/contact (1.2/50 μs)	: > 5 KV
Test voltage, open contact	: 2.5 KV
Insulation Resistance	: 100 M ohms Min. @ 500VDC
Weight	: app. 150 g
Insulation Situation	: any
Ambient Temperature	: - 40° C to + 70° C
Protection Standard	: IP 40



### Graph Max. DC Load



### Dimensions in mm.



### Standard coils for DC & AC (other voltages on enquiry)

Rated Voltage	Pull-in Voltage @ 20° C	Drop Out Voltage	Nominal Current mA	Resistance in Ω at 20° C	Tolerance %
12 VDC	9.00	≥ 1.2	58.50	410	± 10%
24 VDC	18.00	≥ 1.2	58.50	410	± 10%
48 VDC	36.00	≥ 2.4	30.00	1600	± 10%
110 VDC	82.50	≥ 5.5	13.80	8000	± 10%
220 VDC	165.00	≥ 10.0	7.00	32000	± 10%

12 VAC	10.20	≥ 0.6	260.00	10	± 10%
24 VAC	20.40	≥ 1.2	130.00	40	± 10%
48 VAC	40.80	≥ 2.4	60.00	180	± 10%
110 VAC	93.50	≥ 5.5	29.00	950	± 10%
230 VAC	187.00	≥ 11.0	14.00	3900	± 10%

### Standard Types

**AC : 12, 24, 48, 110, 230 VAC - 50Hz**

V = Variastor for 110 / 230 VAC

R = RC Circuit for 110 / 230 VAC

P4D-20-3A-V.....VAC

P4D-20-3A-R.....VAC

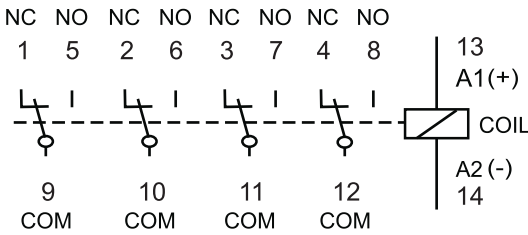
**DC : 12, 24, 48, 110, 220 VDC**

W = Free Wheeling Diode

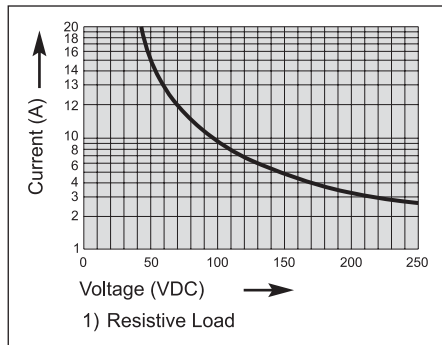
P4D-20-3A-W.....VDC

Approvals

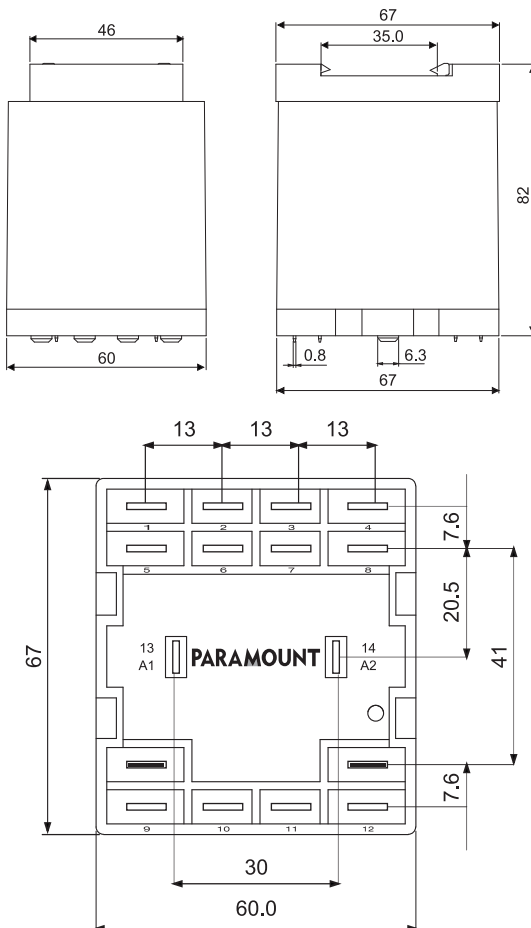




**Graph Max. DC Load**



**Dimensions in mm.**



**P4D-20-4**

**Directly Suitable for DIN Rail Mounting (without Socket)**

**General Purpose 4 CO Relay**

**20A @ 250 VAC 1**

**20A @ 30 VDC 1**

**Contact Specifications**

Materials :	Standard	:	AgCuNi
Contact Configuration	:	4 CO	
Nominal Switching Capacity	:	250 VAC 20A AC1 30 VDC 20A DC1	
Electric Life Expectancy	:	250 VAC 20A AC1 apprx. 100,000 operations (360 operations / h)	
Contact Make and Carry	:	30A for 3 secs / 5A @ 660VAC	
Switching Current Range	:	500mA to 20A	
Max. Switching Current	:	50A for 20ms	
Coil power	:	8 VA (W) to 5000 VA	
Contact Resistance	:	20m Ω	

**Specifications**

Mechanical Life Expectancy	:	20 Million operations
Mechanical Switching Frequency	:	20 Hz
Pull-in-time	:	10 ms at DC / 6-14 ms at AC
Release Time	:	2.5 ms at DC / 2-12 ms at AC
Bounce time normally	:	2.0 ms at DC / 3-8 ms at AC
Shock Resistance	:	AK : > 10g
Vibration Resistance	:	10-55 Hz, AK : 10g, RK: 3g
Test Voltage, coil/contact (1.2/50 μs)	:	> 2.5 KV
Test voltage, open contact	:	2.5 KV
Insulation Resistance	:	100 M ohms Min. @ 500VDC
Weight	:	app. 150 g
Insulation Situation	:	any
Ambient Temperature	:	- 40° C to + 60° C
Protection Standard	:	IP 40

**Standard coils for DC & AC (other voltages on enquiry)**

Rated Voltage	Pull-in Voltage @ 20° C	Drop Out Voltage	Nominal Current mA	Resistance in Ω at 20° C	Tolerance %
12 VDC	9.00	≥ 1.2	58.50	410	± 10%
24 VDC	18.00	≥ 1.2	58.50	410	± 10%
48 VDC	36.00	≥ 2.4	30.00	1600	± 10%
110 VDC	82.50	≥ 5.5	13.80	8000	± 10%
220 VDC	165.00	≥ 10.0	7.00	32000	± 10%

12 VAC	10.20	≥ 0.6	260.00	10	± 10%
24 VAC	20.40	≥ 1.2	130.00	40	± 10%
48 VAC	40.80	≥ 2.4	60.00	180	± 10%
110 VAC	93.50	≥ 5.5	29.00	950	± 10%
230 VAC	187.00	≥ 11.0	14.00	3900	± 10%

**Standard Types**

**AC : 12, 24, 48, 110, 230 VAC - 50Hz**

P = LED Indicator across the coil	P4D-20-4-P ... VAC
V = Variastor for 110 / 230 VAC	P4D-20-4-PV ... VAC
R = RC Circuit for (110 / 230VAC)	P4D-20-4-PR ... VAC

**DC : 12, 24, 48, 110, 220 VDC**

P = LED Indicator across the coil	P4D-20-4-P ... VDC
W = Free Wheeling Diode	P4D-20-4-PW ... VDC

**Suitable Sockets : NIL**



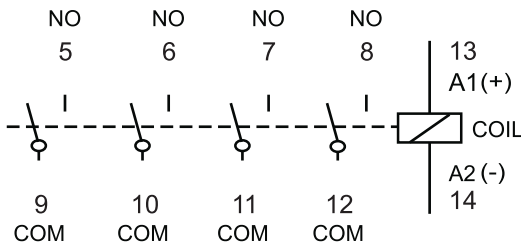
## P4D-20-4A

**Directly Suitable for DIN Rail Mounting  
(without Socket)**

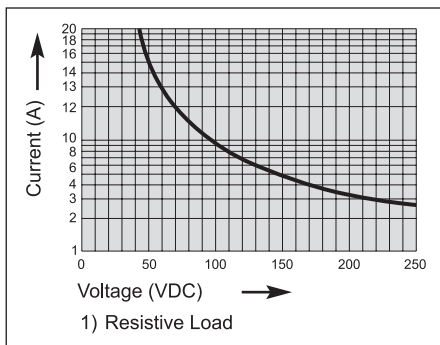
**General Purpose 4 NO Relay**

**20A @ 250 VAC 1**

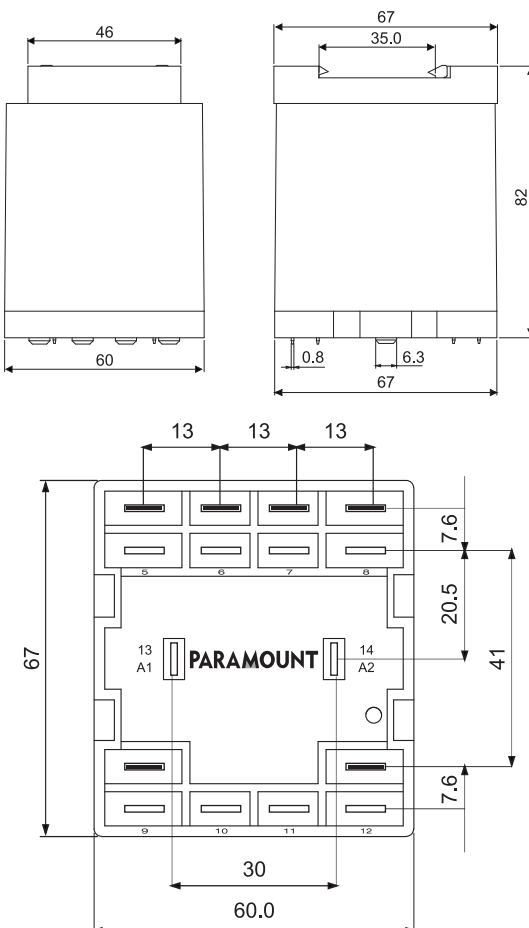
**20A @ 30 VDC 1**



**Graph Max. DC Load**



**Dimensions in mm.**



### Contact Specifications

Materials :	Standard	:	AgCuNi
Contact Configuration	:	4 NO	
Nominal Switching Capacity	:	250 VAC 20A AC1 30 VDC 20A DC1	
Electric Life Expectancy	:	250 VAC 20A AC1 apprx. 100,000 operations (360 operations / h)	
Contact Make and Carry	:	30A for 3 secs / 5A @ 660VAC	
Switching Current Range	:	500mA to 20A	
Max. Switching Current	:	50A for 20ms	
Coil power	:	8 VA (W) to 5000 VA	
Contact Resistance	:	20m Ω	

### Specifications

Mechanical Life Expectancy	:	20 Million operations
Mechanical Switching Frequency	:	20 Hz
Pull-in-time	:	10 ms at DC / 6-14 ms at AC
Release Time	:	2.5 ms at DC / 2-12 ms at AC
Bounce time normally	:	2.0 ms at DC / 3-8 ms at AC
Shock Resistance	:	AK : > 10g
Vibration Resistance	:	10-55 Hz, AK : 10g, RK: 3g
Test Voltage, coil/contact (1.2/50 μs)	:	> 2.5 KV
Test voltage, open contact	:	2.5 KV
Insulation Resistance	:	100 M ohms Min. @ 500VDC
Weight	:	app. 150 g
Insulation Situation	:	any
Ambient Temperature	:	- 40° C to + 60° C
Protection Standard	:	IP 40

### Standard coils for DC & AC (other voltages on enquiry)

Rated Voltage	Pull-in Voltage @ 20° C	Drop Out Voltage	Nominal Current mA	Resistance in Ω at 20° C	Tolerance %
12 VDC	9.00	≥ 1.2	58.50	410	± 10%
24 VDC	18.00	≥ 1.2	58.50	410	± 10%
48 VDC	36.00	≥ 2.4	30.00	1600	± 10%
110 VDC	82.50	≥ 5.5	13.80	8000	± 10%
220 VDC	165.00	≥ 10.0	7.00	32000	± 10%

12 VAC	10.20	≥ 0.6	260.00	10	± 10%
24 VAC	20.40	≥ 1.2	130.00	40	± 10%
48 VAC	40.80	≥ 2.4	60.00	180	± 10%
110 VAC	93.50	≥ 5.5	29.00	950	± 10%
230 VAC	187.00	≥ 11.0	14.00	3900	± 10%

### Standard Types

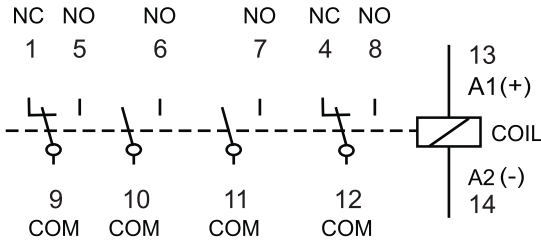
**AC : 12, 24, 48, 110, 230 VAC - 50Hz**

P = LED Indicator across the coil	P4D-20-4A-P	... VAC
V = Variastor for 110 / 230 VAC	P4D-20-4A-PV	... VAC
R = RC Circuit for (110 / 230VAC)	P4D-20-4A-PR	... VAC

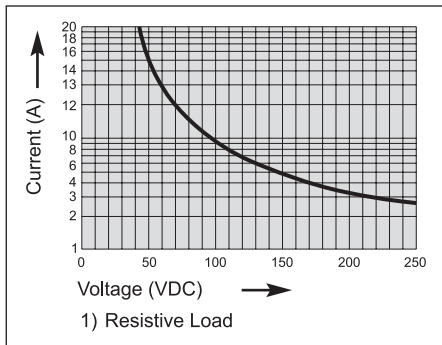
**DC : 12, 24, 48, 110, 220 VDC**

P = LED Indicator across the coil	P4D-20-4A-P	... VDC
W = Free Wheeling Diode	P4D-20-4A-PW	... VDC

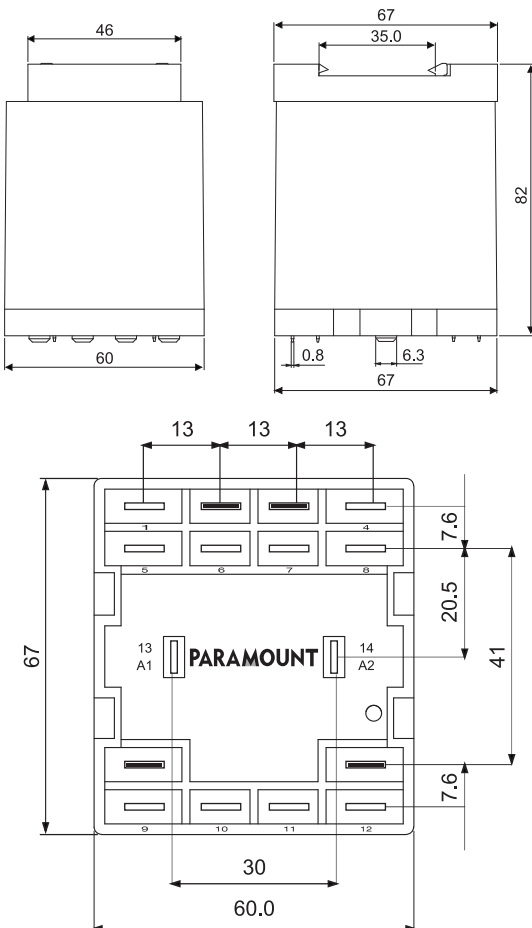
**Suitable Sockets : NIL**



**Graph Max. DC Load**



**Dimensions in mm.**



**P4D-20-2X**



**Directly Suitable for DIN Rail Mounting (without Socket)**

**General Purpose 2NO + 2NC**  
**20A @ 250 VAC 1**  
**20A @ 30 VDC 1**

**Contact Specifications**

Materials :	Standard	:	AgCuNi
Contact Configuration	:	2NO + 2NC	
Nominal Switching Capacity	:	250 VAC 20A AC1 30 VDC 20A DC1	
Electric Life Expectancy	:	250 VAC 20A AC1 apprx. 100,000 operations (360 operations / h)	
Contact Make and Carry	:	30A for 3 secs / 5A @ 660VAC	
Switching Current Range	:	500mA to 20A	
Max. Switching Current	:	50A for 20ms	
Coil power	:	8 VA (W) to 5000 VA	
Contact Resistance	:	20m Ω	

**Specifications**

Mechanical Life Expectancy	:	20 Million operations
Mechanical Switching Frequency	:	20 Hz
Pull-in-time	:	10 ms at DC / 6-14 ms at AC
Release Time	:	2.5 ms at DC / 2-12 ms at AC
Bounce time normally	:	2.0 ms at DC / 3-8 ms at AC
Shock Resistance	:	AK : > 10g
Vibration Resistance	:	10-55 Hz, AK : 10g, RK: 3g
Test Voltage, coil/contact (1.2/50 μs)	:	> 2.5 KV
Test voltage, open contact	:	2.5 KV
Insulation Resistance	:	100 M ohms Min. @ 500VDC
Weight	:	app. 150 g
Insulation Situation	:	any
Ambient Temperature	:	- 40° C to + 60° C
Protection Standard	:	IP 40

**Standard coils for DC & AC (other voltages on enquiry)**

Rated Voltage	Pull-in Voltage @ 20° C	Drop Out Voltage	Nominal Current mA	Resistance in Ω at 20° C	Tolerance %
12 VDC	9.00	≥ 1.2	58.50	410	± 10%
24 VDC	18.00	≥ 1.2	58.50	410	± 10%
48 VDC	36.00	≥ 2.4	30.00	1600	± 10%
110 VDC	82.50	≥ 5.5	13.80	8000	± 10%
220 VDC	165.00	≥ 10.0	7.00	32000	± 10%

12 VAC	10.20	≥ 0.6	260.00	10	± 10%
24 VAC	20.40	≥ 1.2	130.00	40	± 10%
48 VAC	40.80	≥ 2.4	60.00	180	± 10%
110 VAC	93.50	≥ 5.5	29.00	950	± 10%
230 VAC	187.00	≥ 11.0	14.00	3900	± 10%

**Standard Types**

**AC : 12, 24, 48, 110, 230 VAC - 50Hz**

P = LED Indicator across the coil	P4D-20-2X-P	... VAC
V = Variastor for 110 / 230 VAC	P4D-20-2X-PV	... VAC
R = RC Circuit for (110 / 230VAC)	P4D-20-2X-PR	... VAC

**DC : 12, 24, 48, 110, 220 VDC**

P = LED Indicator across the coil	P4D-20-2X-P	... VDC
W = Free Wheeling Diode	P4D-20-2X-PW	... VDC

**Suitable Sockets : NIL**



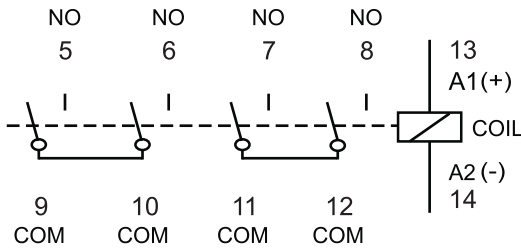
## P4D-20-2Y

**Directly Suitable for DIN Rail Mounting  
(without Socket)**

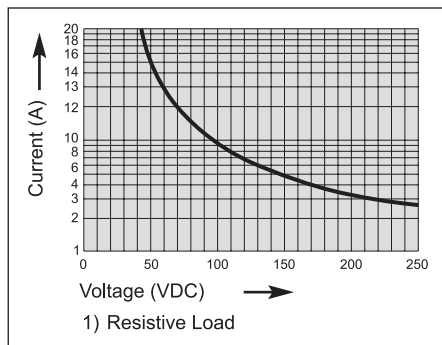
**General Purpose 2NO Double Break**

**20A @ 250 VAC 1**

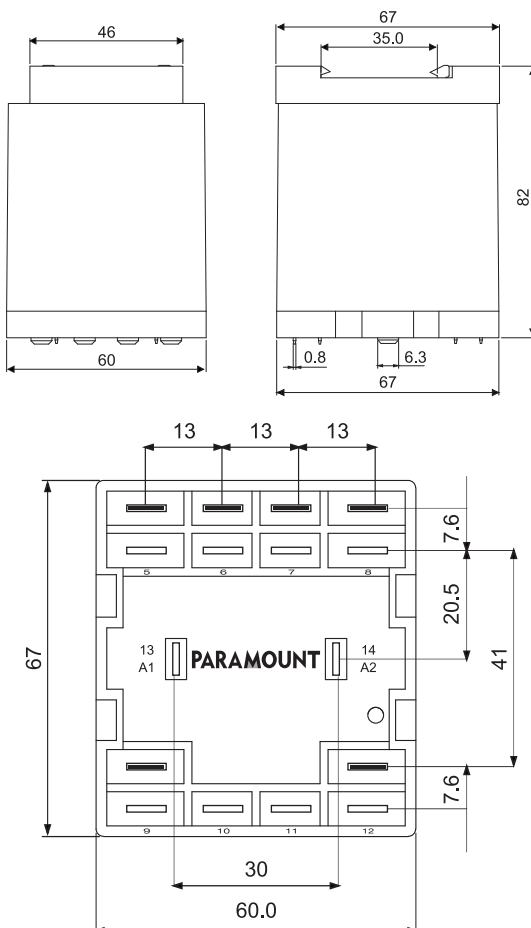
**20A @ 30 VDC 1**



**Graph Max. DC Load**



**Dimensions in mm.**



### Contact Specifications

Materials :	Standard	:	AgCuNi
Contact Configuration	:	2NO Double Break	
Nominal Switching Capacity	:	250 VAC 20A AC1 30 VDC 20A DC1	
Electric Life Expectancy	:	250 VAC 20A AC1 apprx. 100,000 operations (360 operations / h)	
Contact Make and Carry	:	30A for 3 secs / 5A @ 660VAC	
Switching Current Range	:	500mA to 20A	
Max. Switching Current	:	50A for 20ms	
Coil power	:	8 VA (W) to 5000 VA	
Contact Resistance	:	20m Ω	

### Specifications

Mechanical Life Expectancy	:	20 Million operations
Mechanical Switching Frequency	:	20 Hz
Pull-in-time	:	10 ms at DC / 6-14 ms at AC
Release Time	:	2.5 ms at DC / 2-12 ms at AC
Bounce time normally	:	2.0 ms at DC / 3-8 ms at AC
Shock Resistance	:	AK : > 10g
Vibration Resistance	:	10-55 Hz, AK : 10g, RK: 3g
Test Voltage, coil/contact (1.2/50 μs)	:	> 2.5 KV
Test voltage, open contact	:	2.5 KV
Insulation Resistance	:	100 M ohms Min. @ 500VDC
Weight	:	app. 150 g
Insulation Situation	:	any
Ambient Temperature	:	- 40° C to + 60° C
Protection Standard	:	IP 40

### Standard coils for DC & AC (other voltages on enquiry)

Rated Voltage	Pull-in Voltage @ 20° C	Drop Out Voltage	Nominal Current mA	Resistance in Ω at 20° C	Tolerance %
12 VDC	9.00	≥ 1.2	58.50	410	± 10%
24 VDC	18.00	≥ 1.2	58.50	410	± 10%
48 VDC	36.00	≥ 2.4	30.00	1600	± 10%
110 VDC	82.50	≥ 5.5	13.80	8000	± 10%
220 VDC	165.00	≥ 10.0	7.00	32000	± 10%

12 VAC	10.20	≥ 0.6	260.00	10	± 10%
24 VAC	20.40	≥ 1.2	130.00	40	± 10%
48 VAC	40.80	≥ 2.4	60.00	180	± 10%
110 VAC	93.50	≥ 5.5	29.00	950	± 10%
230 VAC	187.00	≥ 11.0	14.00	3900	± 10%

### Standard Types

**AC : 12, 24, 48, 110, 230 VAC - 50Hz**

P = LED Indicator across the coil	P4D-20-2Y-P	... VAC
V = Variastor for 110 / 230 VAC	P4D-20-2Y-PV	... VAC
R = RC Circuit for (110 / 230VAC)	P4D-20-2X-PR	... VAC

**DC : 12, 24, 48, 110, 220 VDC**

P = LED Indicator across the coil	P4D-20-2Y-P	... VDC
W = Free Wheeling Diode	P4D-20-2Y-PW	... VDC

**Suitable Sockets : NIL**



# P4D-20-4-M



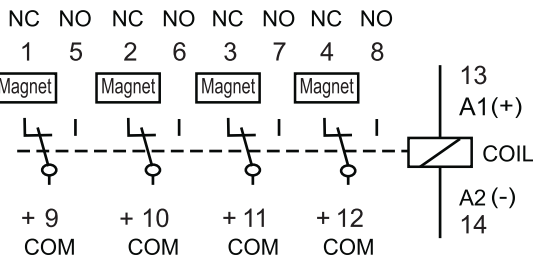
**Directly Suitable for DIN Rail Mounting  
(without Socket)**

**PC Switching 4 CO Relay**

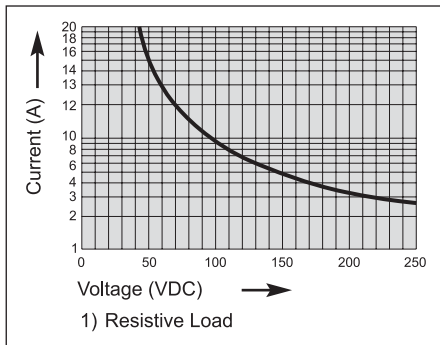
**20A @ 250 VAC 1**

**10A @ 220 VDC 1**

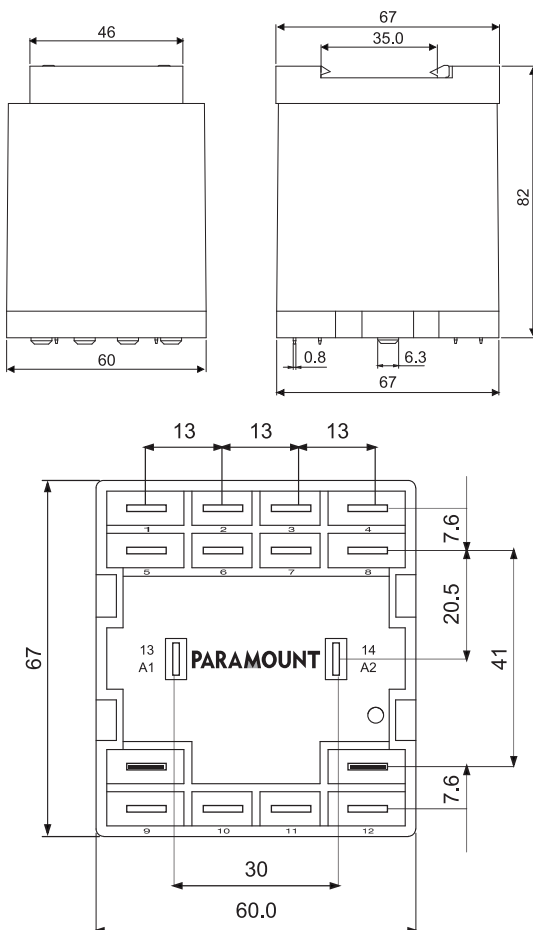
**20A @ 30 VDC 1**



## Graph Max. DC Load



## Dimensions in mm.



## Contact Specifications

Materials :	Standard	:	AgCuNi
Contact Configuration	:	4 CO	
Nominal Switching Capacity	:	250 VAC 20A AC1 30 VDC 20A DC1	
Electric Life Expectancy	:	250 VAC 20A AC1 apprx. 100,000 operations (360 operations / h)	
Contact Make and Carry	:	30A for 3 secs / 5A @ 660VAC	
Switching Current Range	:	500mA to 20A	
Max. Switching Current	:	50A for 20ms	
Coil power	:	8 VA (W) to 5000 VA	
Contact Resistance	:	20m Ω	

## Specifications

Mechanical Life Expectancy	:	20 Million operations
Mechanical Switching Frequency	:	20 Hz
Pull-in-time	:	10 ms at DC / 6-14 ms at AC
Release Time	:	2.5 ms at DC / 2-12 ms at AC
Bounce time normally	:	2.0 ms at DC / 3-8 ms at AC
Shock Resistance	:	AK : > 10g
Vibration Resistance	:	10-55 Hz, AK : 10g, RK: 3g
Test Voltage, coil/contact (1.2/50 μs)	:	> 2.5 KV
Test voltage, open contact	:	2.5 KV
Insulation Resistance	:	100 M ohms Min. @ 500VDC
Weight	:	app. 150 g
Insulation Situation	:	any
Ambient Temperature	:	- 40° C to + 60° C
Protection Standard	:	IP 40

## Standard coils for DC & AC (other voltages on enquiry)

Rated Voltage	Pull-in Voltage @ 20° C	Drop Out Voltage	Nominal Current mA	Resistance in Ω at 20° C	Tolerance %
12 VDC	9.00	≥ 1.2	58.50	410	± 10%
24 VDC	18.00	≥ 1.2	58.50	410	± 10%
48 VDC	36.00	≥ 2.4	30.00	1600	± 10%
110 VDC	82.50	≥ 5.5	13.80	8000	± 10%
220 VDC	165.00	≥ 10.0	7.00	32000	± 10%

12 VAC	10.20	≥ 0.6	260.00	10	± 10%
24 VAC	20.40	≥ 1.2	130.00	40	± 10%
48 VAC	40.80	≥ 2.4	60.00	180	± 10%
110 VAC	93.50	≥ 5.5	29.00	950	± 10%
230 VAC	187.00	≥ 11.0	14.00	3900	± 10%

## Standard Types

**AC : 12, 24, 48, 110, 230 VAC - 50Hz**

P = LED Indicator across the coil	P4D-20-4-M-P	... VAC
V = Variastor for 110 / 230 VAC	P4D-20-4-M-PV	... VAC
R = RC Circuit for (110 / 230VAC)	P4D-20-4-M-PR	... VAC

**DC : 12, 24, 48, 110, 220 VDC**

P = LED Indicator across the coil	P4D-20-4-M-P	... VDC
W = Free Wheeling Diode	P4D-20-4-M-PW	... VDC

## Suitable Sockets : NIL



# P4D-20-4A-M



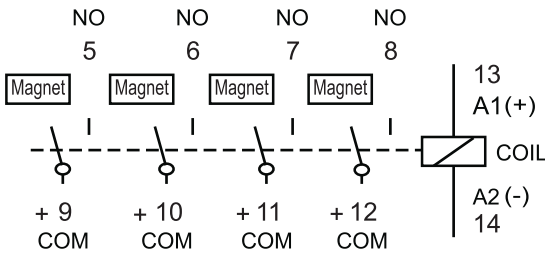
**Directly Suitable for DIN Rail Mounting  
(without Socket)**

**PC Switching 4 NO Relay**

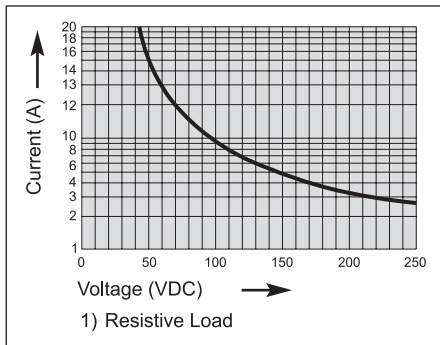
**20A @ 250 VAC 1**

**5A @ 220 VDC 1**

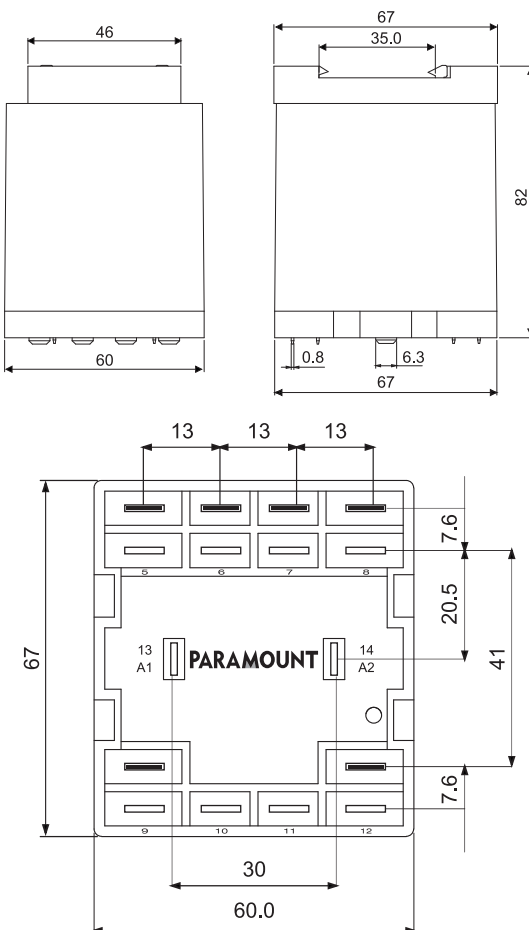
**20A @ 30 VDC 1**



## Graph Max. DC Load



## Dimensions in mm.



## Contact Specifications

Materials :	Standard	:	AgCuNi
Contact Configuration	:	4 NO	
Nominal Switching Capacity	:	250 VAC 20A AC1 30 VDC 20A DC1	
Electric Life Expectancy	:	250 VAC 20A AC1 apprx. 100,000 operations (360 operations / h)	
Contact Make and Carry	:	30A for 3 secs / 5A @ 660VAC	
Switching Current Range	:	500mA to 20A	
Max. Switching Current	:	50A for 20ms	
Coil power	:	8 VA (W) to 5000 VA	
Contact Resistance	:	20m Ω	

## Specifications

Mechanical Life Expectancy	:	20 Million operations
Mechanical Switching Frequency	:	20 Hz
Pull-in-time	:	10 ms at DC / 6-14 ms at AC
Release Time	:	2.5 ms at DC / 2-12 ms at AC
Bounce time normally	:	2.0 ms at DC / 3-8 ms at AC
Shock Resistance	:	AK : > 10g
Vibration Resistance	:	10-55 Hz, AK : 10g, RK: 3g
Test Voltage, coil/contact (1.2/50 μs)	:	> 2.5 KV
Test voltage, open contact	:	2.5 KV
Insulation Resistance	:	100 M ohms Min. @ 500VDC
Weight	:	app. 150 g
Insulation Situation	:	any
Ambient Temperature	:	- 40° C to + 60° C
Protection Standard	:	IP 40

## Standard coils for DC & AC (other voltages on enquiry)

Rated Voltage	Pull-in Voltage @ 20° C	Drop Out Voltage	Nominal Current mA	Resistance in Ω at 20° C	Tolerance %
12 VDC	9.00	≥ 1.2	58.50	410	± 10%
24 VDC	18.00	≥ 1.2	58.50	410	± 10%
48 VDC	36.00	≥ 2.4	30.00	1600	± 10%
110 VDC	82.50	≥ 5.5	13.80	8000	± 10%
220 VDC	165.00	≥ 10.0	7.00	32000	± 10%

12 VAC	10.20	≥ 0.6	260.00	10	± 10%
24 VAC	20.40	≥ 1.2	130.00	40	± 10%
48 VAC	40.80	≥ 2.4	60.00	180	± 10%
110 VAC	93.50	≥ 5.5	29.00	950	± 10%
230 VAC	187.00	≥ 11.0	14.00	3900	± 10%

## Standard Types

**AC : 12, 24, 48, 110, 230 VAC - 50Hz**

P = LED Indicator across the coil	P4D-20-4A-M-P	... VAC
V = Variastor for 110 / 230 VAC	P4D-20-4A-M-PV	... VAC
R = RC Circuit for (110 / 230VAC)	P4D-20-4A-M-PR	... VAC

**DC : 12, 24, 48, 110, 220 VDC**

P = LED Indicator across the coil	P4D-20-4A-M-P	... VDC
W = Free Wheeling Diode	P4D-20-4A-M-PW	... VDC

## Suitable Sockets : NIL



# P4D-20-2X-M



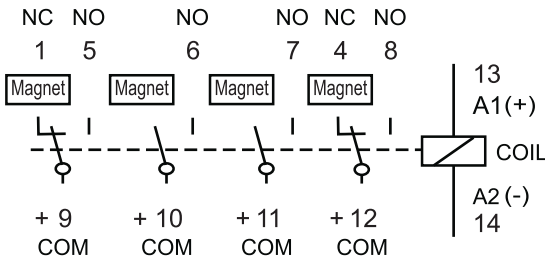
**Directly Suitable for DIN Rail Mounting  
(without Socket)**

**PC Switching 2NO + 2NC Relay**

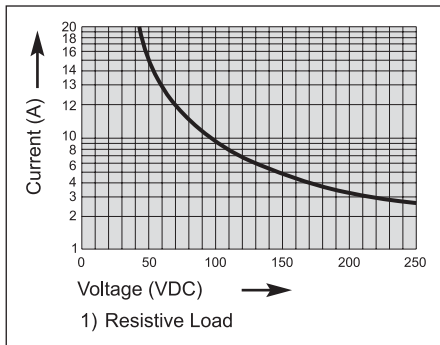
**20A @ 250 VAC 1**

**5A @ 220 VDC 1**

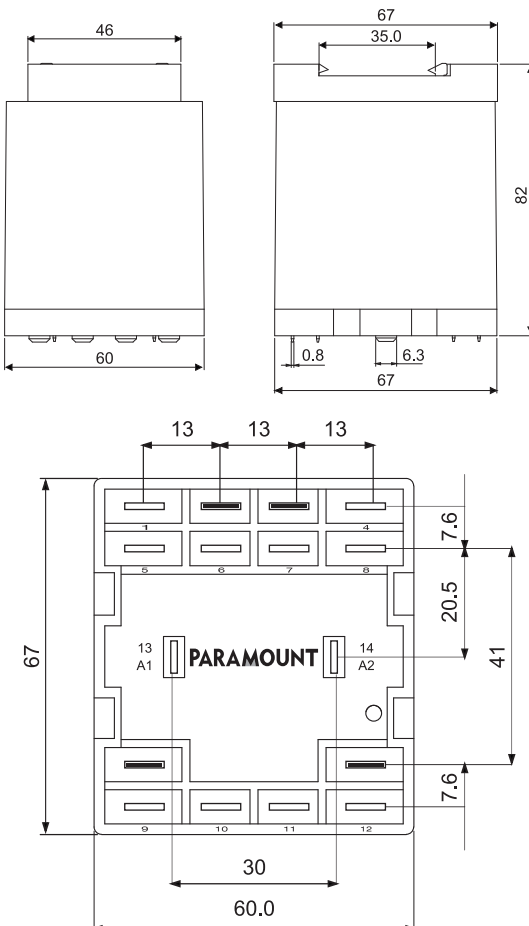
**20A @ 30 VDC 1**



## Graph Max. DC Load



## Dimensions in mm.



## Contact Specifications

Materials :	Standard	:	AgCuNi
Contact Configuration	:	2NO + 2NC	
Nominal Switching Capacity	:	250 VAC 20A AC1 30 VDC 20A DC1	
Electric Life Expectancy	:	250 VAC 20A AC1 apprx. 100,000 operations (360 operations / h)	
Contact Make and Carry	:	30A for 3 secs / 5A @ 660VAC	
Switching Current Range	:	500mA to 20A	
Max. Switching Current	:	50A for 20ms	
Coil power	:	8 VA (W) to 5000 VA	
Contact Resistance	:	20m Ω	

## Specifications

Mechanical Life Expectancy	:	20 Million operations
Mechanical Switching Frequency	:	20 Hz
Pull-in-time	:	10 ms at DC / 6-14 ms at AC
Release Time	:	2.5 ms at DC / 2-12 ms at AC
Bounce time normally	:	2.0 ms at DC / 3-8 ms at AC
Shock Resistance	:	AK : > 10g
Vibration Resistance	:	10-55 Hz, AK : 10g, RK: 3g
Test Voltage, coil/contact (1.2/50 μs)	:	> 2.5 KV
Test voltage, open contact	:	2.5 KV
Insulation Resistance	:	100 M ohms Min. @ 500VDC
Weight	:	app. 150 g
Insulation Situation	:	any
Ambient Temperature	:	- 40° C to + 60° C
Protection Standard	:	IP 40

## Standard coils for DC & AC (other voltages on enquiry)

Rated Voltage	Pull-in Voltage @ 20° C	Drop Out Voltage	Nominal Current mA	Resistance in Ω at 20° C	Tolerance %
12 VDC	9.00	≥ 1.2	58.50	410	± 10%
24 VDC	18.00	≥ 1.2	58.50	410	± 10%
48 VDC	36.00	≥ 2.4	30.00	1600	± 10%
110 VDC	82.50	≥ 5.5	13.80	8000	± 10%
220 VDC	165.00	≥ 10.0	7.00	32000	± 10%

12 VAC	10.20	≥ 0.6	260.00	10	± 10%
24 VAC	20.40	≥ 1.2	130.00	40	± 10%
48 VAC	40.80	≥ 2.4	60.00	180	± 10%
110 VAC	93.50	≥ 5.5	29.00	950	± 10%
230 VAC	187.00	≥ 11.0	14.00	3900	± 10%

## Standard Types

**AC : 12, 24, 48, 110, 230 VAC - 50Hz**

P = LED Indicator across the coil	P4D-20-2X-M-P ... VAC
V = Variastor for 110 / 230 VAC	P4D-20-2X-M-PV ... VAC
R = RC Circuit for (110 / 230VAC)	P4D-20-2X-M-PR ... VAC

**DC : 12, 24, 48, 110, 220 VDC**

P = LED Indicator across the coil	P4D-20-2X-M-P ... VDC
W = Free Wheeling Diode	P4D-20-2X-M-PW ... VDC

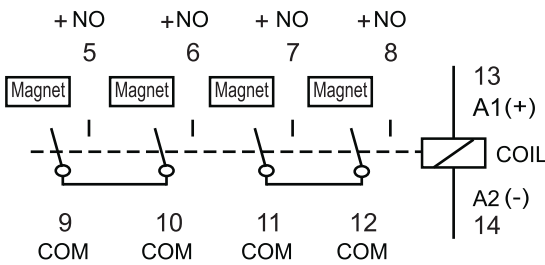
## Suitable Sockets : NIL



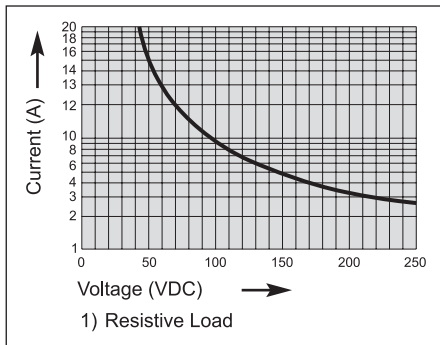
## P4D-20-2Y-M

**Directly Suitable for DIN Rail Mounting  
(without Socket)**

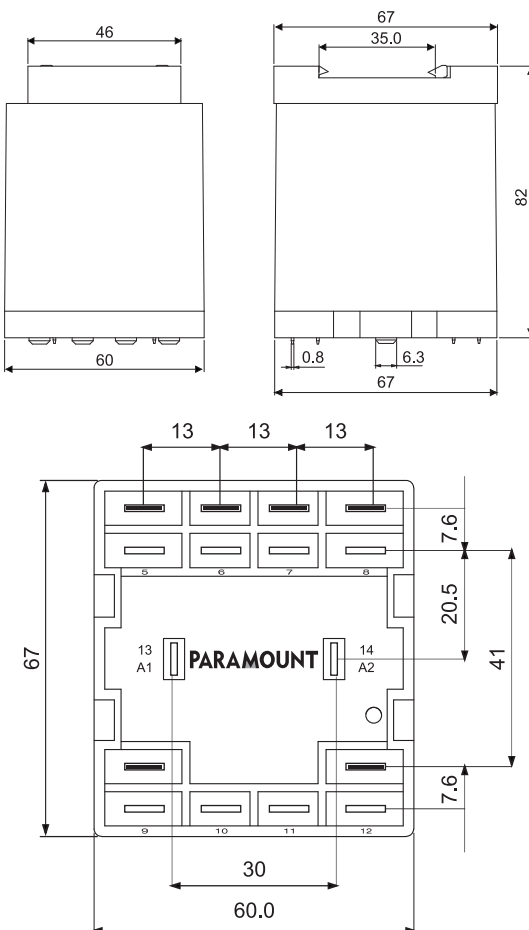
**DC Switching 2NO Double Break Relay**  
**20A @ 250 VAC 1                      5A @ 220 VDC 1**  
**20A @ 30 VDC 1**



### Graph Max. DC Load



### Dimensions in mm.



### Contact Specifications

Materials :	Standard	:	AgCuNi
Contact Configuration	:	2NO Double Break	
Nominal Switching Capacity	:	250 VAC 20A AC1 30 VDC 20A DC1	
Electric Life Expectancy	:	250 VAC 20A AC1 apprx. 100,000 operations (360 operations / h)	
Contact Make and Carry	:	30A for 3 secs / 5A @ 660VAC	
Switching Current Range	:	500mA to 20A	
Max. Switching Current	:	50A for 20ms	
Coil power	:	8 VA (W) to 5000 VA	
Contact Resistance	:	20m Ω	

### Specifications

Mechanical Life Expectancy	:	20 Million operations
Mechanical Switching Frequency	:	20 Hz
Pull-in-time	:	10 ms at DC / 6-14 ms at AC
Release Time	:	2.5 ms at DC / 2-12 ms at AC
Bounce time normally	:	2.0 ms at DC / 3-8 ms at AC
Shock Resistance	:	AK : > 10g
Vibration Resistance	:	10-55 Hz, AK : 10g, RK: 3g
Test Voltage, coil/contact (1.2/50 μs)	:	> 2.5 KV
Test voltage, open contact	:	2.5 KV
Insulation Resistance	:	100 M ohms Min. @ 500VDC
Weight	:	app. 150 g
Insulation Situation	:	any
Ambient Temperature	:	- 40° C to + 60° C
Protection Standard	:	IP 40

### Standard coils for DC & AC (other voltages on enquiry)

Rated Voltage	Pull-in Voltage @ 20° C	Drop Out Voltage	Nominal Current mA	Resistance in Ω at 20° C	Tolerance %
12 VDC	9.00	≥ 1.2	58.50	410	± 10%
24 VDC	18.00	≥ 1.2	58.50	410	± 10%
48 VDC	36.00	≥ 2.4	30.00	1600	± 10%
110 VDC	82.50	≥ 5.5	13.80	8000	± 10%
220 VDC	165.00	≥ 10.0	7.00	32000	± 10%

12 VAC	10.20	≥ 0.6	260.00	10	± 10%
24 VAC	20.40	≥ 1.2	130.00	40	± 10%
48 VAC	40.80	≥ 2.4	60.00	180	± 10%
110 VAC	93.50	≥ 5.5	29.00	950	± 10%
230 VAC	187.00	≥ 11.0	14.00	3900	± 10%

### Standard Types

**AC : 12, 24, 48, 110, 230 VAC - 50Hz**

P = LED Indicator across the coil	P4D-20-2Y-M-P	... VAC
V = Variastor for 110 / 230 VAC	P4D-20-2Y-M-PV	... VAC
R = RC Circuit for (110 / 230VAC)	P4D-20-2X-M-PR	... VAC

**DC : 12, 24, 48, 110, 220 VDC**

P = LED Indicator across the coil	P4D-20-2Y-M-P	... VDC
W = Free Wheeling Diode	P4D-20-2Y-M-PW	... VDC

**Suitable Sockets : NIL**

**Ordering Information For P4D Series Relays**

P4D-

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1 2 3 4 5 6 7 8

**1. Relay Type**

Blank : Din Rail Mountable attachment

**2. Contact Rating**

20 : 20A

30 : 30A

**3. Contact Type**

2 : 2 Change Over

2A : 2 NO

X : 1 NO 1 NC

Y : 1 NO Double Break

3 : 3 Change Over

3A : 3 NO

4 : 4 Change Over

4A : 4 NO

2X : 2 NO 2 NC

2Y : 2 NO Double Break

**5. Features**

Blank : No Features / Standard

F : Mechanical Flag Indicator

P : LED Indicator across the coil

W : Free Wheeling Diode

R : RC (Snubber circuit)

B : Bridge Rectifier

**6. Special Types**

Blank : Standard

M : Magnetic Blow Out (2CO & 4CO)

L : Latching Relays (common negative)

L2 : Latching Relays (independent coils)

**7. Contact Material**

Blank : AgCuNi (20A)

Blank : AgSnO2 (30A)

**8. Rated coil Voltage**

12 / 24 / 48 / 110 / 220 VDC

12 / 24 / 48 / 115 / 230 VAC