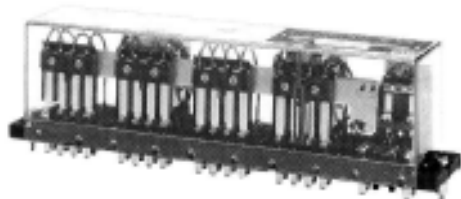


Relè simile al tipo RMME con autodiagnostica incorporata che garantisce una elevata disponibilità del componente.

*The relay is similar to RMME model and includes a diagnostic function that guarantees high availability.*



## Relè tutto o niente multipolare monostabile con relè ausiliario per controllo continuità bobina

**All or nothing relay multicontact monostable with auxiliary relay for coil continuity check**

linea M - line M



### Funzionamento:

in corrente continua o in corrente alternata (direttamente senza raddrizzatori o diodi)  
La bobina di comando è controllata da un relè monostabile che opera normalmente e che segnala la disponibilità del relè ad operare.

### Isolamento:

a frequenza industriale e ad impulso (vds. tabella al retro)

### Contatti:

relè principale: da 4, 8, 16 di scambio da 10 A nominali

relè ausiliario: 2 di scambio da 5 A nominali

### Servizio:

- continuo
- durata meccanica: 10x10<sup>6</sup> manovre

### Esecuzione:

protetta con calotta trasparente (grado di protezione IP.40 - EN 60529)

### Resistenza al fuoco:

secondo EN 60695-2-1

### Raccordi:

ad innesto faston

### Ambiente:

temperatura di impiego -25°C +55°C  
temperatura di magazz. e trasp. -25°C +70°C

### Segnalazione:

ottico-meccanica di posizione attivata

### Interdizione:

a richiesta con spine

### Portacartellino:

guida per cartellino da 6 x 32 x 0,5 mm

### Massa:

- gr. 450 (circa) (RMNEx6)
- gr. 740 (circa) (RMNEx7)
- gr. 1180 (circa) (RMNEx9)

### Volume:

- cm<sup>3</sup> 620 (circa) (RMNEx6)
- cm<sup>3</sup> 880 (circa) (RMNEx7)
- cm<sup>3</sup> 1350 (circa) (RMNEx9)

### Norma di riferimento:

EN 60255

### Montaggio con prese per:

piastra: PAVM320 - PAVM480 - PAVM800  
PAVM328 - PAVM488 - PAVM808

pannello: PRGM321 - PRGM481 - PRGM801  
PRDM321 - PRDM481 - PRDM801  
PRVM321 - PRVM481 - PRVM801

### Coil input voltage:

designed for DC or AC voltage (without rectifier diode)

*The command coil is checked by a monostable normally operating relay which signals the availability of the relay to operate.*

### Insulation:

nominal frequency voltage test and impulse voltage test (see rear table)

### Contacts:

main relay: 4, 8, 16 changeover 10 A rated contacts

auxiliary relay: 2 changeover 5A rated contacts

### Working class:

- continuous
- mechanical life: 20x10<sup>6</sup> operations

### Protection:

enclosed in a transparent dustcover (degree of protection IP.40 - EN 60529)

### Resistance to fire:

ref. EN 60695-2-1

### Base:

quick connect faston type terminals for plug-in sockets and coupling plug

### Temperature:

operative temp.: -25°C +55°C (-13°F +131°F)  
storage temp.: -25°C +70°C (-13°F +158°F)

### Signal:

optical-mechanical indication of working position

### Error proof pin:

on request

### Label-holder:

guide for label up to 6 x 32 x 0,5 mm

### Weight:

- gr. 450 (15.86 ounces av) (RMNEx6)
- gr. 740 (26.10 ounces av) (RMNEx7)
- gr. 1180 (41.62 ounces av) (RMNEx9)

### Volume:

- cm<sup>3</sup> 620 (37.82 cu in) (RMNEx6)
- cm<sup>3</sup> 880 (53.68 cu in) (RMNEx7)
- cm<sup>3</sup> 1350 (82.35 cu in) (RMNEx9)

### Reference standard:

EN 60255

### Guida alla scelta

Tipo RMNExy

- x = 1 Standard
- x = 3 Con diodo smorzatore (solo cc.)
- x = 4 Con contatti e connettori dorati (2 μ)
- x = 6 Con diodo smorzatore e con contatti e connettori dorati (2 μ) (solo c.c.)

- y = 6 4 contatti
- y = 7 8 contatti
- y = 9 16 contatti

### Selection guide

Cat. No RMNExy

- x = 1 Standard
- x = 3 With damper diode (only for DC)
- x = 4 With gold-plated (2 μ) contacts and connectors
- x = 6 With damper diode and with gold-plated (2 μ) contacts and connectors (only for DC)

- y = 6 4 contacts
- y = 7 8 contacts
- y = 9 16 contacts

### Mounting with sockets for:

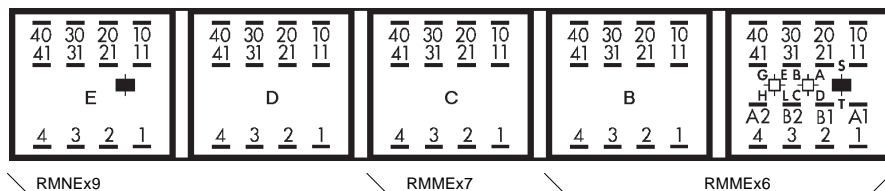
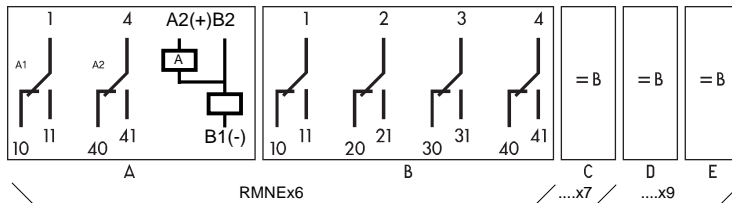
Plate mounting:

PAVM320 - PAVM480 - PAVM800  
PAVM328 - PAVM488 - PAVM808

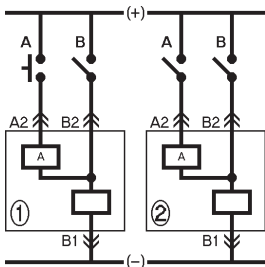
flush-mounted:

PRGM321 - PRGM481 - PRGM801  
PRDM321 - PRDM481 - PRDM801  
PRVM321 - PRVM481 - PRVM801

schema wiring-diagram



28 - 40 - 64 innesti (vista al retro)  
28 - 40 - 64 pins base (rear view)



### Funzione di autodiagnostica:

- La bobina principale è controllata da un relè monostabile che segnala la disponibilità del relè alla manovra successiva.

Sono possibili due modi di funzionamento:

- 1) Test periodico della bobina tramite il pulsante "A"
- 2) Controllo continuo della bobina tramite il contatto "A". Dopo l'attivazione del relè, il reset è ottenuto aprendo entrambi i contatti "A" e "B".

### Autodiagnostic mode:

- The coils of the main relay is checked by a monostable relay which signals the availability of the relay for next operation.

Two modes of operation are possible:

- 1) Periodic test of the coil by means of the test push button "A"
- 2) Continuous test of the coil by means of the test switch "A". In case of the relay actuation the reset is obtained opening both switches "A" and "B".

### Funzionamento - Electrical data

| Relè<br>Relay | Alimentazione bobina<br>Coil voltage data |                       |       | Consumo (circa)<br>Power (about) |   | Campo di lavoro<br>Operating range |               | Classe di lavoro<br>Working class |
|---------------|---|-----------------------|-------|----------------------------------|---|------------------------------------|---------------|-----------------------------------|
|               | max V<br>Tens c.c./DC                     | max V<br>Tens c.a./AC |       | W<br>c.c./DC                     | VA<br>c.a./AC                             | Un<br>c.c./DC                      | Un<br>c.a./AC |                                   |
|               |   | 50 Hz                 | 60 Hz |                                  |   |                                    |               |                                   |
| RMNEx6        | 250                                       | 380                   | 440   | 3                                | 11,5 <sup>(1)</sup><br>6,5 <sup>(2)</sup> | 80÷120%                            | 85÷110%       | C                                 |
| RMNEx7-x9     | 250                                       | 380                   | 440   | 6                                | 25 <sup>(1)</sup><br>15 <sup>(2)</sup>    | 80÷120%                            | 85÷110%       | C                                 |

<sup>(1)</sup> = all'attrazione/energization - <sup>(2)</sup> = in funzione / continuous operation

### Isolamento - Insulation data

|  | Resistenza di<br>isolamento<br>Insulation<br>resistance<br>al to 500V c.c./DC<br>Mohm | Tensione di tenuta a<br>frequenza industriale<br>Rated frequency<br>voltage test<br>per/for 1 min.<br>KV | Tensione di tenuta<br>ad impulso<br>Impulse<br>test<br>1,2/50µs 0,5J<br>KV |
|--|---|--|--|
| Tra i circuiti elettricamente indipendenti<br>e tra questi e massa<br>Between electrically independent circuits<br>and between those and the frame | >10000  | 2  | 2,2  |
| Tra gli elementi, aperti, di contatto<br>Between open contact components   | >10000  | 2- 1 ☆   | 2,2- 1 ☆   |

☆ = per il relè ausiliario di controllo continuità bobina / for auxiliary relay of coil continuity check

### Contatti - Contact data

| Quantità n°<br>Number | Tipo relè<br>Cat. no  | Tipo contatto<br>Type | Portata AI Rated current A |            |            | Capacità di interruzione<br>Breaking capacity                         |
|-----------------------|-----------------------|-----------------------|----------------------------|------------|------------|---|
|                       |                       |                       | contin./contin.            | per/for 1' | per/for 1s |   |
| 4                     | RMNEx6                |                       |                            |            |            |   |
| 8                     | RMNEx7                | Scambio/Changeover    | 10                         | 20         | 40         | 1 A - 110 V c.c./DC - L/R 40 ms<br>100.000 man. - 1.800 man/h - 50%   |
| 16                    | RMNEx9                |                       |                            |            |            |   |
| 2                     | controllo / control/* | Scambio/Changeover    | 5                          |            |            | 0,2 A - 110 V c.c./DC - L/R 40 ms<br>100.000 man. - 1.800 man/h - 50% |

◇ = su tutti i contatti contemporaneamente: 30% di riduzione / on all contacts contemporaneamente: 30% reduction

\* = il relè ausiliario di controllo continuità bobina è interno al relè principale / the auxiliary relay of continuity check in coil command circuits in inner to the main relay

### Tempi di commutazione Un/ Operating and release time at Un

Temperatura ambiente : 20 °C / Ambient temperature 20 °C (68 °F)

|                     |                   | Riposo/ N.C. | Millisecondi / Milliseconds |         |           |         |           |         |
|---------------------|-------------------|--------------|-----------------------------|---------|-----------|---------|-----------|---------|
|                     |                   |              | RMNE16-46                   |         | RMNE17-47 |         | RMNE19-49 |         |
|                     |                   |              | c.c./DC                     | c.a./AC | c.c./DC   | c.a./AC | c.c./DC   | c.a./AC |
| Attrazione/ Operate | apertura/ opening |              | ≤ 16                        | ≤ 11    | ≤ 14      | ≤ 11    | ≤ 15      | ≤ 12    |
|                     | chiusura/ closing | Lavoro/ N.O. | ≤ 42                        | ≤ 33    | ≤ 39      | ≤ 37    | ≤ 38      | ≤ 33    |
| Riaduta/ Release    | apertura/ opening | Lavoro/ N.O. | ≤ 13                        | ≤ 31    | ≤ 13      | ≤ 31    | ≤ 10      | ≤ 28    |
|                     | chiusura/ closing | Riposo/ N.C. | ≤ 66                        | ≤ 114   | ≤ 70      | ≤ 83    | ≤ 45      | ≤ 74    |

### Tempi di commutazione Un/ Operating and release time at Un

Temperatura ambiente : 20 °C / Ambient temperature 20 °C (68 °F)

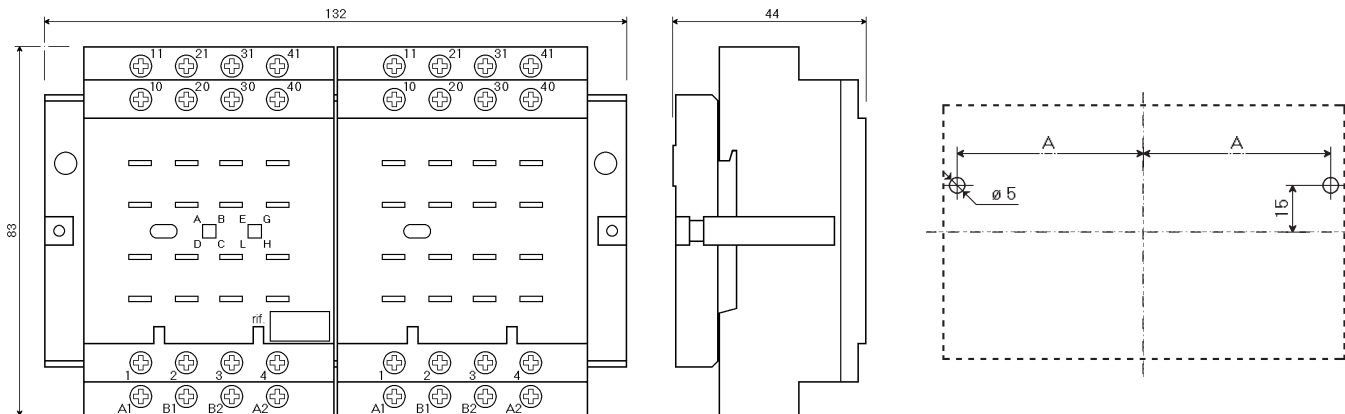
|                     |                   | Riposo/ N.C. | Millisecondi / Milliseconds |           |           |
|---------------------|-------------------|--------------|-----------------------------|-----------|-----------|
|                     |                   |              | RMNE36-66                   | RMNE37-67 | RMNE39-69 |
|                     |                   |              | c.c./DC                     | c.c./DC   | c.c./DC   |
| Attrazione/ Operate | apertura/ opening |              | ≤ 16                        | ≤ 14      | ≤ 16      |
|                     | chiusura/ closing | Lavoro/ N.O. | ≤ 42                        | ≤ 39      | ≤ 37      |
| Riaduta/ Release    | apertura/ opening | Lavoro/ N.O. | ≤ 107                       | ≤ 33      | ≤ 37      |
|                     | chiusura/ closing | Riposo/ N.C. | ≤ 154                       | ≤ 83      | ≤ 76      |

**Prese / Sockets**

**linea M / line M**

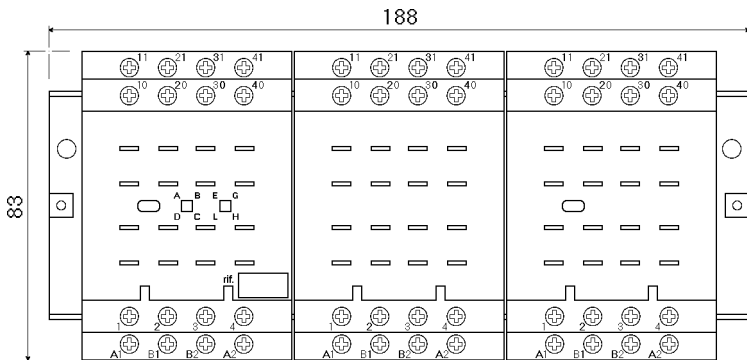
**PAVM320** per piastra / for plate mounting

**PAVM328** con viteria inox / with screws inox



**PAVM480** per piastra / for plate mounting

**PAVM488** con viteria inox / with screws inox

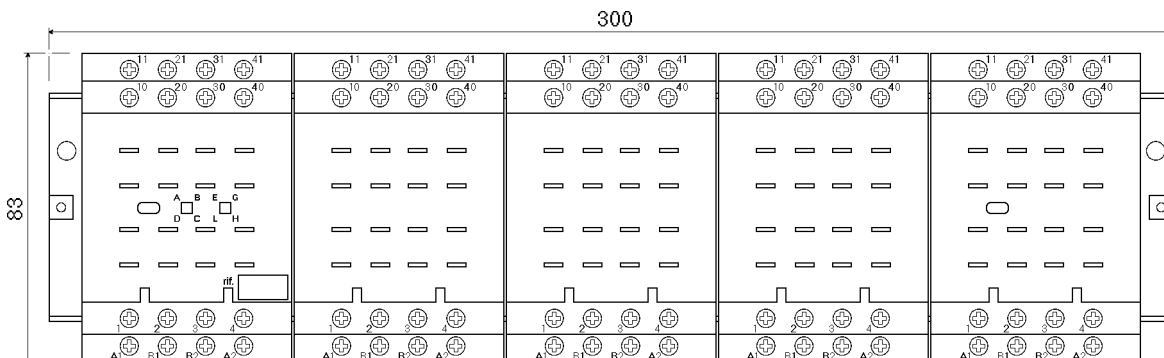


sagoma e fissaggio  
outline dimensions

| Tipo / Cat.No | A   |
|---------------|-----|
| PAVM320       | 61  |
| PAVM480       | 89  |
| PAVM800       | 145 |

**PAVM800** per piastra / for plate mounting

**PAVM808** con viteria inox / with screws inox

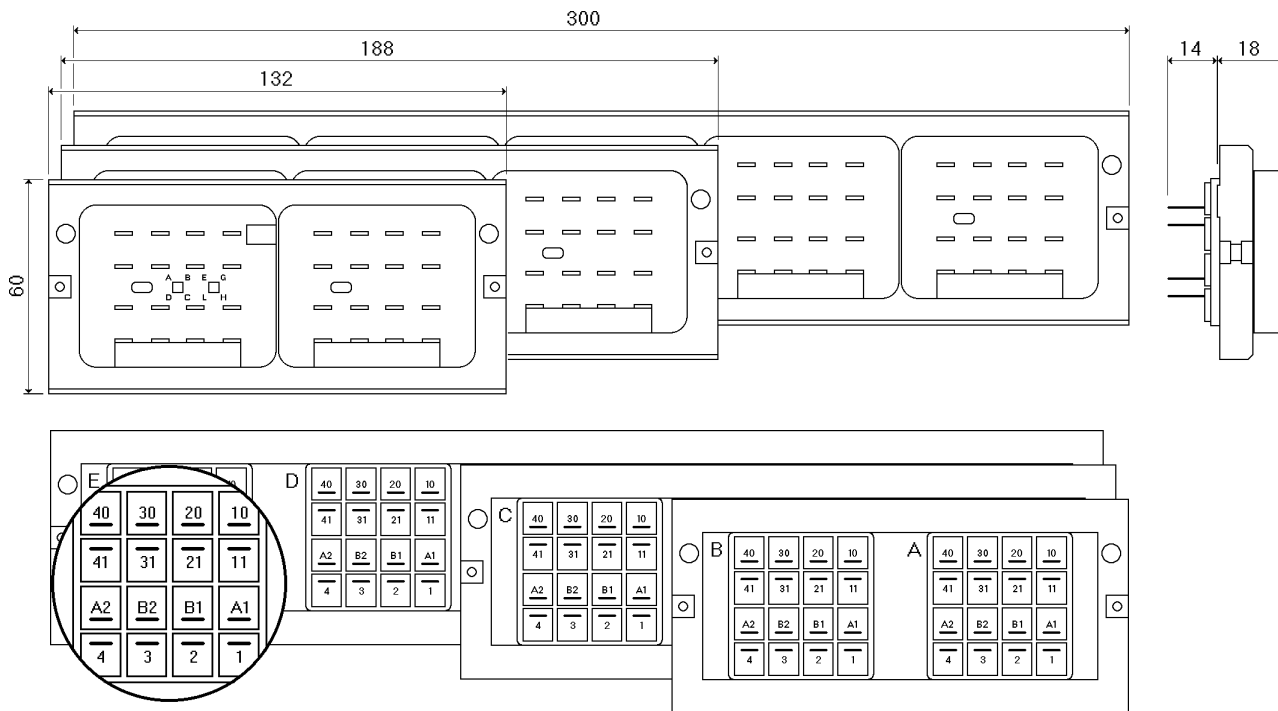


**Prese / Sockets**

**linea M / line M**

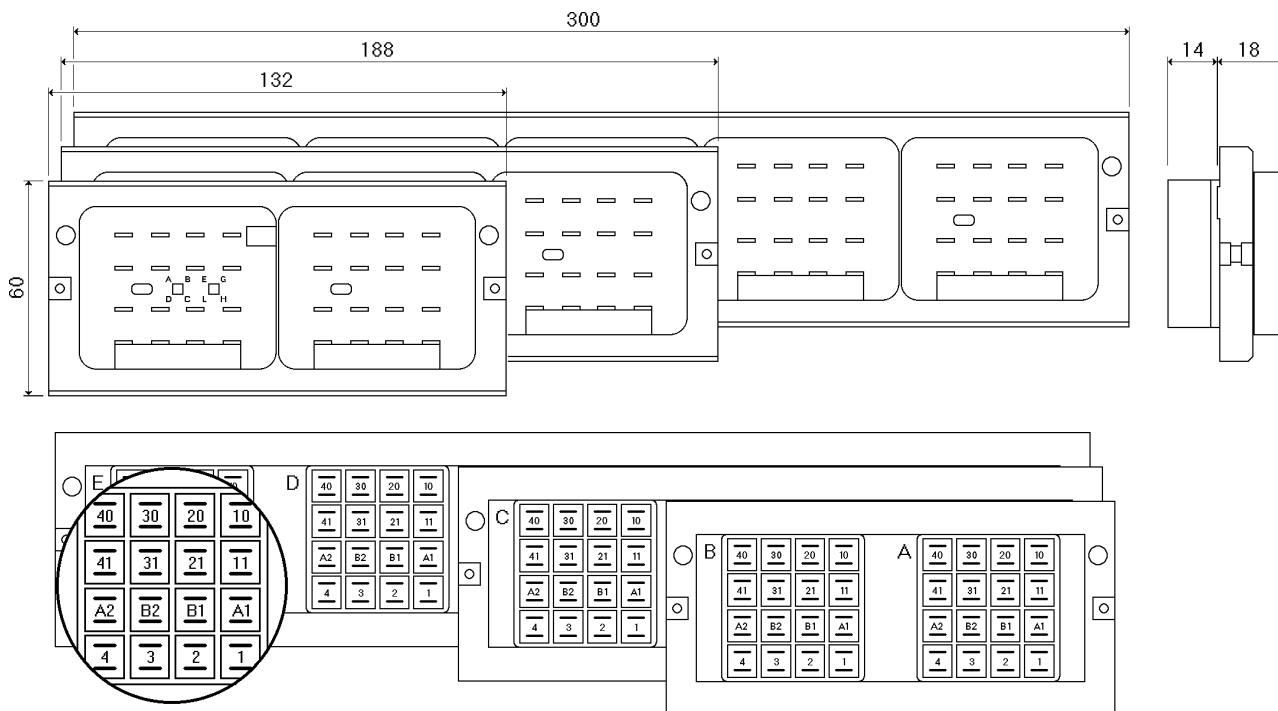
**PRGM321 - PRGM481 - PRGM801**

per montaggio a pannello con terminali faston semplice / for flush-mounted with faston terminals



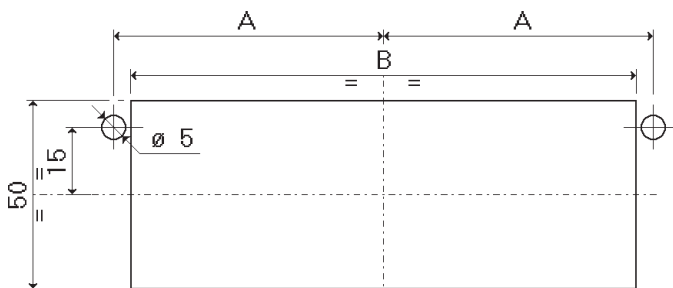
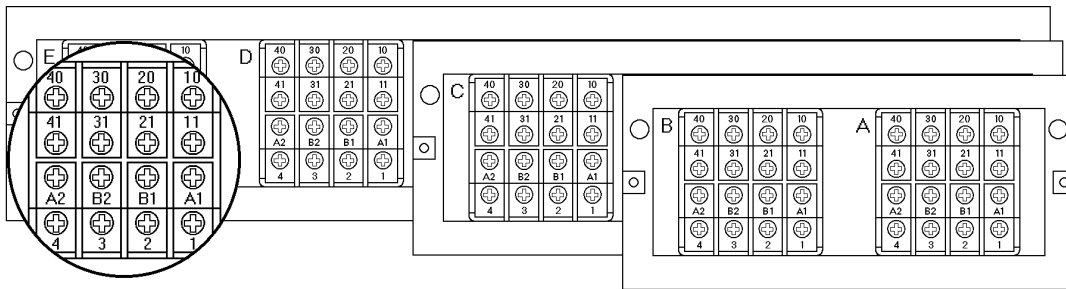
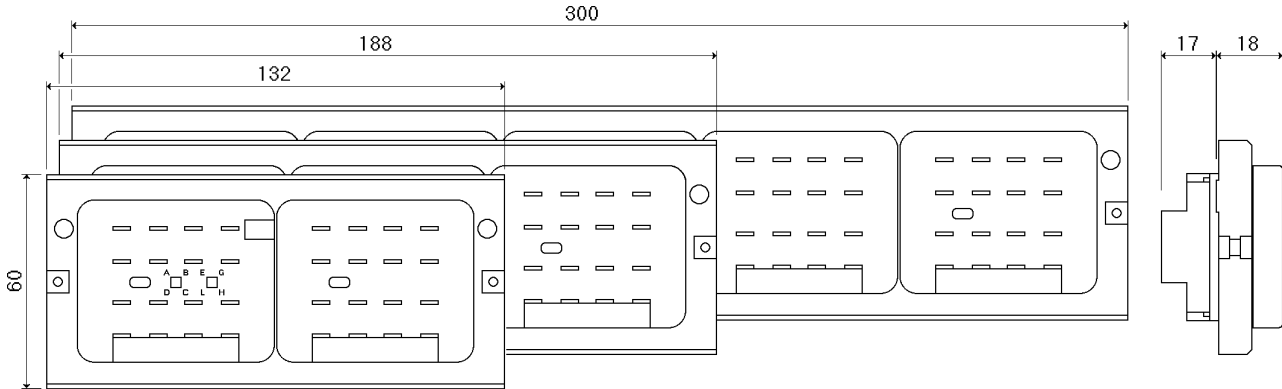
**PRDM321 - PRDM481 - PRDM801**

montaggio a pannello, terminali doppio faston / for flush-mounted with double faston terminals



**PRVM321 - PRVM481 - PRVM801**

per montaggio a pannello con terminali a vite / for flush-mounted with screws terminals

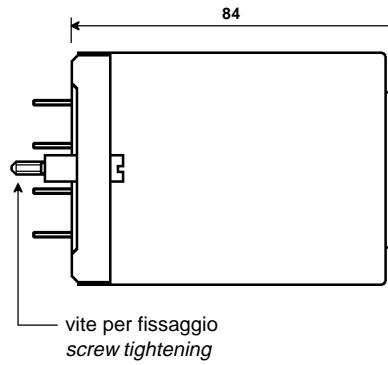
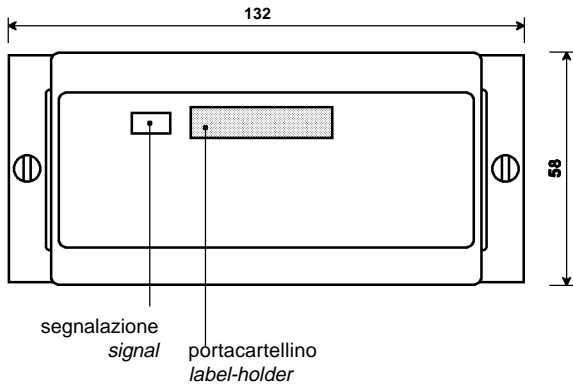


sagoma e fissaggio / outline dimensions

| Tipo<br>Cat.No | A   | B   | Lungh. presa<br>Sockets length |
|----------------|-----|-----|--------------------------------|
| PR.M321        | 61  | 110 | 132                            |
| PR.M481        | 89  | 166 | 188                            |
| PR.M801        | 145 | 278 | 300                            |

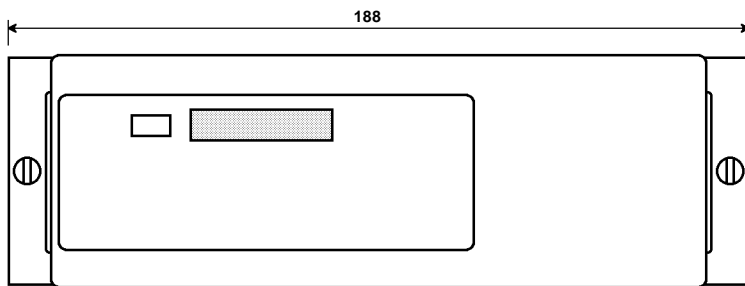
**Dimensioni / Dimensions**

**linea M / line M**



dim. 1

RMME2-x6 - RMNE6  
RMBEx3 - RMDEx1  
RMMV1y

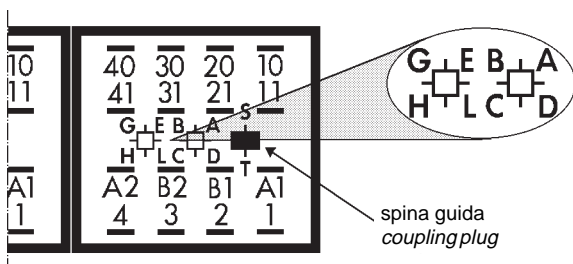
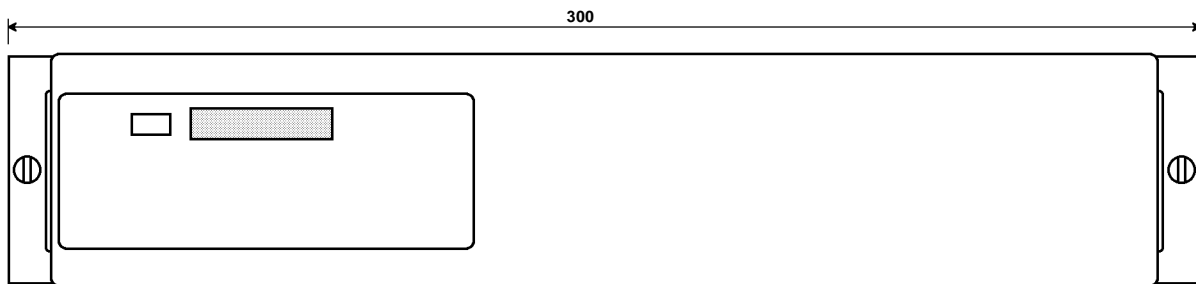


dim. 2

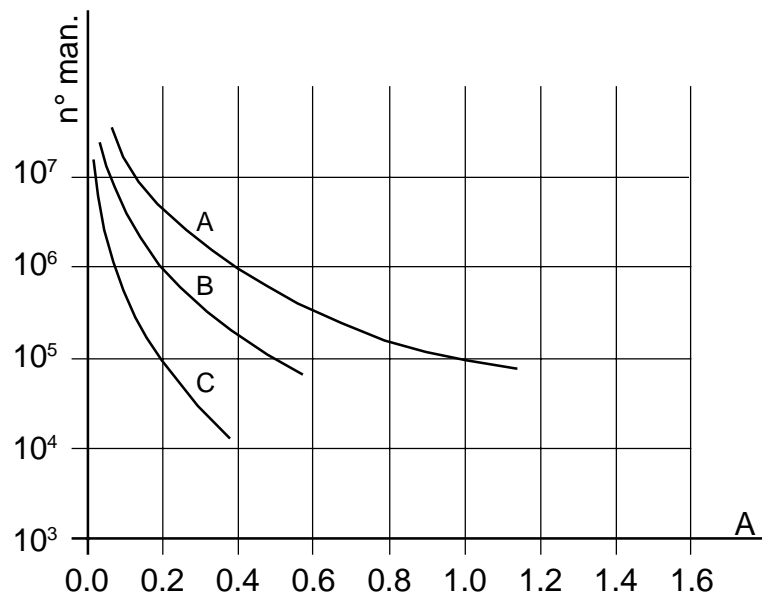
RMME3-x7 - RMNE7  
RMBEx5 - RMDEx2

dim. 3

RMME4-x8 - RMNE9  
RMBEx7 - RMDEx4



## Capacità di interruzione / *Breaking capacity*



Carico sui contatti / *load inductor* : 110 V c.c./DC L/R = 40 ms.

- A = RGME<sub>x7</sub>  
 RMME<sub>x6·x7·x8</sub> - RMNE<sub>x6·x7·x9</sub>
- B = RCME<sub>x6</sub>  
 RDME<sub>x6</sub> - RDCE13 - RDLE13 - RDTE17·18·19  
 RGME<sub>x3·x4</sub> - RGLE13 - RGBE<sub>xy</sub> - RGTE<sub>xx</sub>  
 RMME<sub>x2·x3·x4</sub> - RMBE<sub>x3·x5·x7</sub> - RMDE<sub>x1·x2·x4</sub>
- C = RCME<sub>x2</sub>  
 RDME<sub>x2</sub> - RDBE<sub>xy</sub> - RDPE1<sub>y</sub> - RDTE11·12·14

U<sub>max</sub> contatto aperto :

|                           |                    |
|---------------------------|--------------------|
| relè tipo RC.... - RD.... | 250V cc / 300 V ca |
| relè tipo RG.... - RM.... | 350V cc / 440 V ca |