

# TYPE : MPR RELAYS

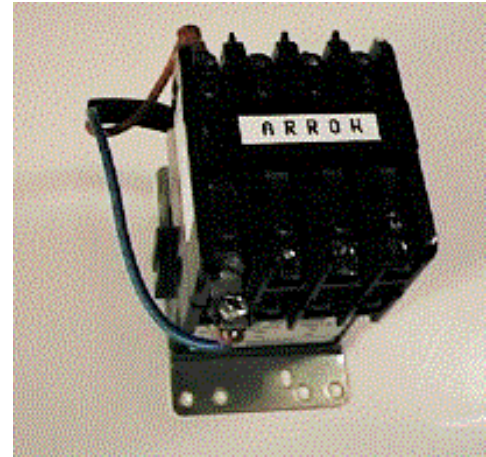


A range of compact Multi Pole Relays offering numerous normally open and normally closed pole combinations rated at 20A 250V A.C. with a wide choice of A.C. and D.C. control voltages.

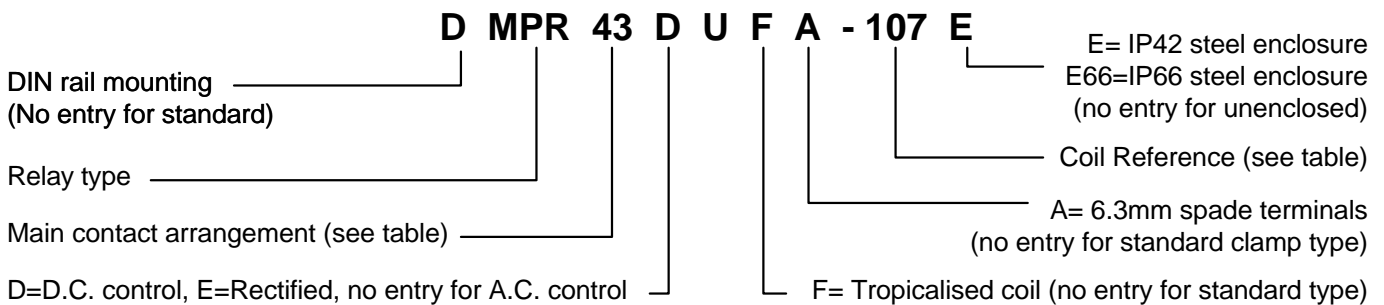
## FEATURES

- Up to 8 poles, of which up to 4 may be normally closed
- 20A resistive and 9A A.C. inductive load per pole
- Wide range of A.C. and D.C. control voltages
- Screw or 6.3mm spade terminations
- Optional 35mm DIN rail mounting
- Enclosed variants available with IP42 or IP66 protection

A.C. control types are available with 4 or 8 poles. Note that one pole is used by the control circuit when D.C. control is specified and that these types are therefore 3 or 7 pole



## ORDERING EXAMPLE



| MAIN CONTACT ARRANGEMENTS |     |           |              |     |           |
|---------------------------|-----|-----------|--------------|-----|-----------|
| A.C. CONTROL              |     |           | D.C. CONTROL |     |           |
| N/O                       | N/C | REF       | N/O          | N/C | REF       |
| 0                         | 4   | <b>04</b> | 0            | 3   | <b>03</b> |
| 1                         | 3   | <b>13</b> | 1            | 2   | <b>12</b> |
| 2                         | 2   | <b>22</b> | 2            | 1   | <b>21</b> |
| 3                         | 1   | <b>31</b> | 3            | 0   | <b>30</b> |
| 4                         | 0   | <b>40</b> | 4            | 3   | <b>43</b> |
| 4                         | 4   | <b>44</b> | 5            | 2   | <b>52</b> |
| 5                         | 3   | <b>53</b> | 6            | 1   | <b>61</b> |
| 6                         | 2   | <b>62</b> | 7            | 0   | <b>70</b> |
| 7                         | 1   | <b>71</b> |              |     |           |
| 8                         | 0   | <b>80</b> |              |     |           |

| COIL REFERENCES (for rectified A.C. use the equivalent D.C. coil) |         |            |                  |      |            |                  |             |
|---|---------|------------|------------------|------|------------|------------------|-------------|
| A.C. on standard base   |         |            | A.C. on DIN base |      |            | D.C. either base |             |
| Voltage   | Freq    | Ref        | Voltage          | Freq | Ref        | Voltage          | Ref         |
| 24  | 50/60Hz | <b>-74</b> | 110              | 50Hz | <b>-78</b> | 12-15            | <b>-102</b> |
| 48-55   | 60Hz    | <b>-76</b> | 240              | 50Hz | <b>-84</b> | 24-30            | <b>-103</b> |
| 110   | 50/60Hz | <b>-79</b> | 380              | 50Hz | <b>-86</b> | 30-40            | <b>-104</b> |
| 220-250   | 50Hz    | <b>-80</b> | 440              | 60Hz | <b>-89</b> | 36-48            | <b>-105</b> |
| 220-250   | 60Hz    | <b>-81</b> |                  |      |            | 48-65            | <b>-106</b> |
| 220   | 50/60Hz | <b>-82</b> |                  |      |            | 110-135          | <b>-107</b> |
| 250   | 50/60Hz | <b>-95</b> |                  |      |            | 220-250          | <b>-108</b> |
| 380-440   | 50Hz    | <b>-86</b> |                  |      |            |                  |             |
| 440   | 50/60Hz | <b>-90</b> |                  |      |            |                  |             |
| 440-500   | 60Hz    | <b>-89</b> |                  |      |            |                  |             |

| ADDITIONAL ITEM REFERENCES  |
|---|
| Spare coils : Add coil reference from the table to the part no. <b>MSA1666-</b> |
| 2 pole link kit - part no. <b>MSA128231K</b>                                    |
| 4 pole link kit - part no. <b>MSA128232K</b>                                    |

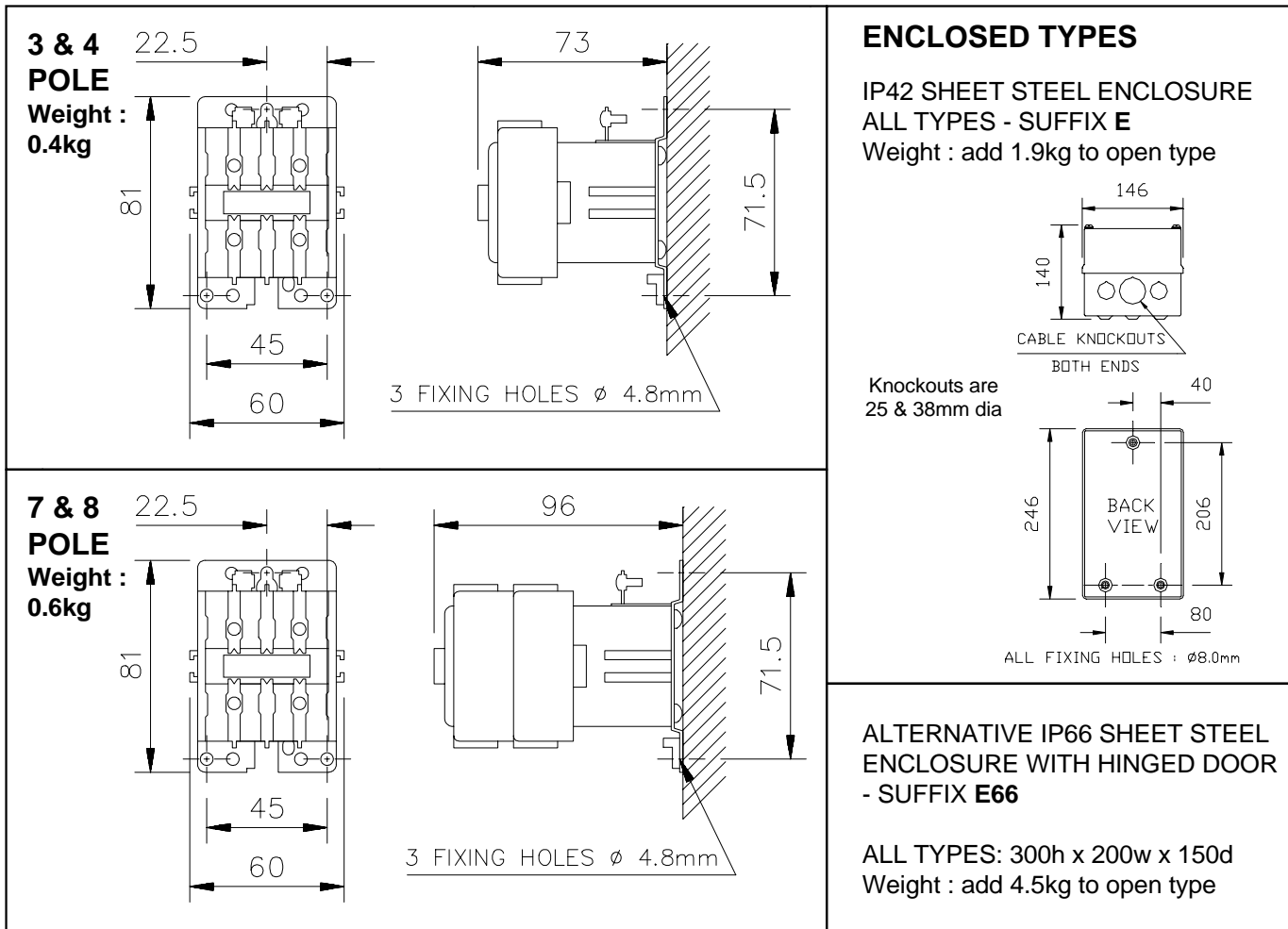
Coils for voltages other than those listed above are also available - details on request.

## SPECIFICATION

| CONTACT RATING |           |           |
|----------------|-----------|-----------|
| VOLTAGE        | RESISTIVE | INDUCTIVE |
| 240V A.C.      | 20A       | 9A        |
| 110V A.C.      | 20A       | 11A       |
| 24V A.C.       | 20A       | 12A       |
| 230V D.C.      | 1A        | 0.5A      |
| 110V D.C.      | 5A        | 3A        |
| 24V D.C.       | 15A       | 8A        |

| TERMINAL CABLE SIZES  |
|---|
| SADDLE CLAMP FOR 1 x 4mm <sup>2</sup> CABLE                           |
| COIL CONSUMPTION  |
| A.C. : 54VA in-rush, 11VA hold-in<br>D.C. : 75W in-rush, 1.5W hold-in |
| MECHANICAL LIFE   |
| > 5 x 10 <sup>6</sup> OPERATIONS                                      |

**OUTLINE DIMENSIONS (mm) :** DIN rail mounting adds 6mm to the depths shown



## RELATED PRODUCTS

Enbray Contactors has a well established name for reliable electrical load management and manufactures a wide range of load switching devices ranging from miniature pulse operated devices up to 1250A fully automatic changeover systems.

Specific customer requested configurations can be produced which are supplied with all control wiring in place and therefore require the minimum of installation time. These include Safety Contactors, Emergency Changeover Systems, Multipole contactors, Contactors with normally closed main poles etc. Details on request

## ENBRAY - Cooper Bussmann

Burton-on-the-Wolds  
Leicestershire LE12 5TH  
England

Tel: +44 (0) 1509 882600

Fax: +44 (0) 1509 882786

Technical/Application Helpline

Tel: +44 (0) 1900 68173

Fax: +44 (0) 1900 68189



E-mail: [contactors@bussmann.co.uk](mailto:contactors@bussmann.co.uk)

Web: <http://www.enbray.co.uk>