# Solenoids\_

## Series 41 Small, powerful, high force/stroke ratio solenoid



#### GENERAL DESCRIPTION

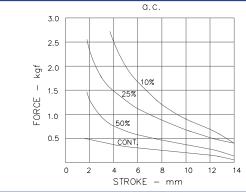
AC & DC types

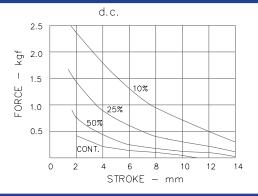
/pes Pull & thrust versions

Shading ring for quiet AC operation

PE	PERFORMANCE					
	Item	Specification				
CAL	Maximum Ontime	See table below				
ELECTRICAL	Closed power (continuous rating)	AC: 10.5VA DC: 6.5W				
EL	Maximum permissible voltage	240V				
	Insulation	All coils tested to frame at 1500V RMS 50Hz				
	Weight	142g Plunger: 35g				
Ļ	Ambient temperature	The information given on this page is based on room temperature				
ICAL	ů.	of 20 C allowing for a nominal 75 C temperature rise in coil.				
CHANICAL	Ambient temperature	of 20 C allowing for a nominal 75 C temperature rise in coil. These force curves show average performance only. In addittion to normal manufacturing tolerances, deviations can be expected at				
MECHANICAL	Ambient temperature	of 20 C allowing for a nominal 75 C temperature rise in coil. These force curves show average performance only. In addittion to				

### FORCE/STROKE CURVES & ON TIME

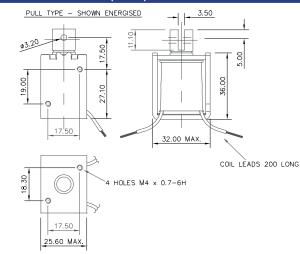


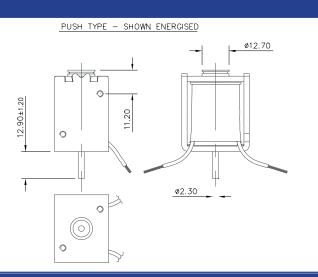


#### MAXIMUM ON TIME

	10%		25%		50%	
	1 cycle	Cont. cycle	1 cycle	Cont cycling	1 cycle	Cont. cycling
AC	50 sec	30 sec	2.75 min	1.7 min	8 min	6.25 min
DC	35 sec	20 sec	1.75 min	1 min	4.5 min	3.75 min

#### DIMENSIONS (mm)





#### CODING

AC   1     DC   6     Pull   1     Push   2     STANDARD   0     With Push Off Spring   1     Vertication   0     1150 AC 50Hz   01     50V AC 50Hz   01     1150 AC 50Hz   15     220V AC 50Hz   15     1150 AC 50Hz   16     1150 AC 50Hz   17     1150 AC 60Hz   19     220V AC 60Hz   19     220V AC 60Hz   27     280 VAC 60Hz   19     200 VAC 60Hz   62     24V DC   55     56   57     9V DC   58     50V DC   68     12V DC   62     24V DC   72     73   74     75   78     39V DC   88     30V DC   88     90   91     200V DC   92     93   94     94   95     90   91     1150 V DC   88 </th <th>UDING</th> <th>2 0 X X X</th> <th></th>	UDING	2 0 X X X	
DC   6     Pull   1     Push   2     STANDARD   0     With Push Off Spring   1     Image: Cont.   50%     Standard Leads   0     Vith Push Off Spring   1     Image: Cont.   50%     Standard Leads   01			
DC   6     Pull   1     Push   2     STANDARD   0     With Push Off Spring   1     Image: Cont.   50%     Standard Leads   0     Vith Push Off Spring   1     Image: Cont.   50%     Standard Leads   01     Sov AC 50 Hz   01     Sov AC 50Hz   08     115   220 VAC 50Hz     220V AC 50Hz   23     220V AC 50Hz   23     220V AC 50Hz   23     220V AC 50Hz   23     220V AC 60Hz   19     220V AC 60Hz   19     220V AC 60Hz   27     220V AC 60Hz   27     230V AC 60Hz   41     44   45     6V DC   54     9V DC   58     59   60     64   65     77   78     80   90     90   91     90   92     90   92     90   92			
DC   6     Pull   1     Push   2     STANDARD   0     With Push Off Spring   1     Image: Cont.   0     Cont.   50%     OV   01     Standard Leads   01			
Pull   1     Push   2     STANDARD   0     With Push Off Spring   1     Cont.     Cont.   50%     Standard Leads   01     50V AC 50 Hz   01     50V AC 50Hz   08     115V AC 50Hz   15     220V AC 50Hz   15     220V AC 50Hz   23     230V AC 50Hz   19     220V AC 60Hz   19     220V AC 60Hz   19     220V AC 60Hz   27     220V AC 60Hz   27     220V AC 60Hz   27     220V AC 60Hz   27     220V AC 60Hz   72     220V AC 60Hz   72     24V DC   55     56   57     9V DC   58     12V DC   62     24V DC   72     36V DC   76     50V DC   80     50V DC   81     220V DC   92     230V DC   84     85   86     87   99 <t< td=""><td></td><td></td><td></td></t<>			
Push   2     STANDARD   0     With Push Off Spring   1     24V AC 50 Hz   01     50V AC 50Hz   01     50V AC 50Hz   08     115V AC 50Hz   08     115V AC 50Hz   15     220V AC 50Hz   23     230V AC 50Hz   23     200V AC 60Hz   27     220V AC 60Hz   19     220V AC 60Hz   27     230V AC 60Hz   27     230V AC 60Hz   64     6V DC   54     9V DC   68     12V DC   62     24V DC   72     28V DC   76     36V DC   58     50V DC   68     80V DC   76     36V DC   80     81   82     82   83     80V DC   99     115V DC   92     200V DC   84     85   86     87   91     90V DC   92     93   94   95			
STANDARD   0     With Push Off Spring   1     24V AC 50 Hz   01     50V AC 50Hz   01     50V AC 50Hz   08     115V AC 50Hz   15     220V AC 50Hz   23     230V AC 50Hz   23     24V AC 60Hz   11     115V AC 60Hz   19     220V AC 60Hz   19     230V AC 60Hz   19     200V AC 60Hz   19     200V AC 60Hz   19     200V AC 60Hz   72     200V AC 60Hz   77     8V DC   56     6V DC   54     9V DC   68     12V DC   62     24V DC   72     28V DC   76     36V DC   80     50V DC   84     85   90     91   92     201   92     201   88     89   90     90   91     92   93     94   95     95   96     97			
With Push Off Spring   1     Image: Cont.   Cont.     Cont.   50%     SoV AC 50 Hz   01     50V AC 50 Hz   08     115V AC 50 Hz   15     220V AC 50 Hz   23     230V AC 50 Hz   39     115V AC 60 Hz   19     220V AC 60 Hz   27     230V AC 60 Hz   62     24V DC   56     50V DC   58     15V DC   80     50V DC   84     115V DC   88     220V DC   92     220V DC   92     220V DC   92     220V DC   92     240V DC   92     250V DC   88     89   90     91   95     92   93     940   95     95   90     96   97			,
Cont.     50%     25%     10%       50V AC 50 Hz     01     02     03     04       50V AC 50Hz     15     02     03     11       115V AC 50Hz     15     24     25     26       230V AC 50Hz     23     24     25     26       230V AC 50Hz     19     20     21     22       220V AC 60Hz     27     28     29     30       230V AC 60Hz     43     44     45     46       6V DC     54     55     56     57       9V DC     58     59     60     61       12V DC     62     77     78     79       36V DC     76     77     78     88       80     81     82     83       80V DC     84     85     86     87       90     91     93     94     95     99       200V DC     96     97     98     99     99			
24V AC 50 Hz     01     02     03     04       50V AC 50Hz     08     10     11       115V AC 50Hz     15     23     24     25     26       230V AC 50Hz     39     40     41     42       115V AC 60Hz     19     20     21     22       220V AC 60Hz     27     28     29     30       230V AC 60Hz     43     44     45     46       6V DC     54     55     56     57       9V DC     58     59     60     61       12V DC     62     77     73     74     75       28V DC     76     77     78     82     83       30V DC     84     85     86     87       115V DC     92     93     90     91     95       220V DC     92     93     94     95     95       304     45     86     87     95     95       304     96 <td< td=""><td>With Push Off Spring</td><td>1</td><td>1    </td></td<>	With Push Off Spring	1	1
24V AC 50 Hz     01     02     03     04       50V AC 50Hz     08     09     10     11       115V AC 50Hz     15     24     25     26       230V AC 50Hz     39     40     41     42       115V AC 60Hz     19     20     21     22       230V AC 60Hz     27     28     29     30       230V AC 60Hz     43     44     45     46       6V DC     54     55     56     57       9V DC     58     59     60     61       12V DC     62     63     64     65       24V DC     72     73     74     75       28V DC     76     77     78     82       36V DC     80     81     82     83       81     85     86     97     91       20V DC     92     93     94     95     99       20V DC     96     97     98     95     99			
50V AC 50Hz     08     09     10     11       115V AC 50Hz     15     16     17     18       220V AC 50Hz     23     24     25     26       230V AC 50Hz     39     40     41     42       115V AC 60Hz     19     20     21     22       230V AC 60Hz     27     28     29     30       230V AC 60Hz     43     44     45     46       6V DC     54     55     56     57       9V DC     58     59     60     61       12V DC     62     63     64     65       24V DC     72     73     74     75       36V DC     76     77     78     82     83       80     81     85     86     87       90     91     95     94     95     99       220V DC     96     97     98     99     95       300     94     95     99     95 <td></td> <td>Cont. 50%</td> <td></td>		Cont. 50%	
115V AC 50Hz   15   16   17   18     220V AC 50Hz   23   24   25   26     230V AC 50Hz   39   40   41   42     115V AC 60Hz   19   20   21   22     220V AC 60Hz   27   28   29   30     230V AC 60Hz   43   44   45   46     6V DC   54   55   56   57     9V DC   58   59   60   61     12V DC   62   63   64   65     24V DC   72   73   74   75     36V DC   76   77   78   83     30V DC   84   85   86   87     115V DC   84   85   86   87     220V DC   92   93   94   95   99     240V DC   96   97   98   99   95     394   95   93   94   95   99	24V AC 50 Hz	01 02	03 04
220V AC 50Hz   23   24   25   26     230V AC 50Hz   39   40   41   42     115V AC 60Hz   19   20   21   22     230V AC 60Hz   27   28   29   30     230V AC 60Hz   43   44   45   46     6V DC   54   55   56   57     9V DC   58   59   60   61     12V DC   62   63   64   65     24V DC   72   73   74   75     36V DC   80   81   82   83     350 DC   84   85   86   90     220V DC   92   93   94   95   99     240V DC   96   97   98   90   91	50V AC 50Hz	08 09	10 11
230V AC 50Hz   39   40   41   42     115V AC 60Hz   19   20   21   22     220V AC 60Hz   27   28   29   30     230V AC 60Hz   43   44   45   46     6V DC   54   55   56   57     9V DC   58   59   60   61     12V DC   62   63   64   65     24V DC   72   73   74   75     36V DC   80   81   82   83     50V DC   84   85   86   87     115V DC   92   93   94   95   99     220V DC   92   93   94   95   99     Standard Leads   0   96   97   98   90	115V AC 50Hz	15 16	17 18
115V AC 60Hz   19   20   21   22     220V AC 60Hz   27   28   29   30     230V AC 60Hz   43   44   45   46     6V DC   54   55   56   57     9V DC   58   59   60   61     12V DC   62   63   64   65     24V DC   72   73   74   75     36V DC   76   77   78   83     50V DC   84   85   86   87     115V DC   88   89   90   91     220V DC   92   93   94   95     240V DC   96   97   98   99	220V AC 50Hz	23 24	25 26
220V AC 60Hz   27   28   29   30     230V AC 60Hz   43   44   55   56   57     6V DC   54   55   56   60   61     9V DC   62   63   64   65     24V DC   72   73   74   75     28V DC   76   77   78   79     36V DC   80   81   82   83     50V DC   88   89   90   91     220V DC   92   93   94   95   99     Standard Leads   0   0   0   0   0	230V AC 50Hz	39 40	41 42
230V AC 60Hz   43   44   45   46     6V DC   54   55   56   57     9V DC   58   59   60   61     12V DC   62   73   74   75     28V DC   76   77   78   83     36V DC   80   81   82   83     50V DC   84   85   86   87     115V DC   88   89   90   91     220V DC   92   93   94   95   99     Standard Leads   50   96   97   98   90	115V AC 60Hz	19 20	21 22
6V DC     54     55     56     57       9V DC     58     59     60     61       12V DC     62     63     64     65       24V DC     72     73     74     75       36V DC     76     77     78     82     83       36V DC     80     81     82     83       50V DC     84     85     86     87       115V DC     92     93     90     91       220V DC     92     93     94     95       99     91     95     99     91	220V AC 60Hz	27 28	29 30
9V DC     58     59     60     61       12V DC     62     63     64     65       24V DC     72     73     74     75       28V DC     76     77     78     83       36V DC     80     81     82     83       50V DC     84     85     86     87       115V DC     92     93     94     95       240V DC     96     97     98     99	230V AC 60Hz	43 44	45 46
12V DC   62   63   64   65     24V DC   72   73   74   75     28V DC   76   77   78   83     36V DC   80   81   82   83     50V DC   84   85   86   87     115V DC   92   93   94   95     240V DC   96   97   98   99	6V DC	54 55	56 57
24V DC   72   73   74   75     28V DC   76   77   78   79     36V DC   80   81   82   83     50V DC   84   85   86   87     115V DC   88   89   90   91     220V DC   92   93   94   95     240V DC   96   97   98   90	9V DC	58 59	60 61
28V DC   76   77   78   79     36V DC   80   81   82   83     50V DC   84   85   86   87     115V DC   92   93   94   95     240V DC   96   97   98   99			4   4   4
36V DC   80   81   82   83     50V DC   84   85   86   87     115V DC   88   89   90   91     220V DC   92   93   94   95     240V DC   96   97   98   99			
SOV DC 84 85 86 97   115V DC 88 89 90 91   220V DC 92 93 94 95   240V DC 96 97 98 99			
0   115V DC   88   89   90   91     220V DC   92   93   94   95     240V DC   96   97   98   99     Standard Leads   0			82 83
220V DC 92 93 94 95   240V DC 96 97 98 99   Standard Leads 0	SOV DC		86 87
240V DC     96     97     98     99       Standard Leads     0			4
Standard Leads		92 93	94 95
	240V DC	96 97	98 99
	Standard Leads		0
Faston Tags "250" Type 3	Faston Tags "250" Type		3



BLP products are designed, manufactured and tested to ISO 9001 quality standards.

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