

1	
	1000
14	

Product designation Product type designation			Power contactor BF25
Contact characteristics			
Number of poles		Nr.	3
Rated insulation voltage Ui IEC/EN		V	690
Rated impulse withstand voltage Uimp		kV	6
Operational frequency			
	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current Ith		А	32
Operational current le			
	AC-1 (≤40°C)	А	32
	AC-1 (≤55°C)	A	26
	AC-1 (≤70°C)	A	23
	AC-3 (≤440V ≤55°C)	А	25
	AC-4 (400V)	A	10
Rated operational power AC-3 (T≤55°C)			
	230V	kW	7
	400V	kW	12.5
	415V	kW	13.4
	440V	kW	13.4
	500V	kW	15
	690V	kW	11
Rated operational power AC-1 (T≤40°C)			
	230V	kW	12
	400V	kW	21
	500V	kW	26
	690V	kW	36
IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series	0001		00
	≤24V	А	20
	48V	A	18
	46V 75V	A	18
	110V	A	6
	220V	A	-
IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series	2201		
	≤24V	А	23
	48V	A	23
	75V	A	23
	110V	A	16
	220V	A	1
IEC max current le in DC1 with L/R $\leq$ 1ms with 3 poles in series	2201	~~~	•
	≤24V	А	23
	48V	A	23
	48V 75V	A	23
	110V	A	18
	1100	Λ	10



## BF2501A042

	0001/	•	10	
IFC move summent to in DC1 with 1/D < 1 move with 4 moles in parise	220V	A	12	
IEC max current le in DC1 with $L/R \le 1$ ms with 4 poles in series	<2417	٨		
	≤24V	A	-	
	48V 75V	A	-	
	110V	A A	-	
	220V	A	_	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series	220 V	A	-	
The current is in DC3-DC3 with $L/R \le 15$ min 1 poiss in series	≤24V	۸	15	
	≤24∨ 48V	A A	15 13	
	40 V 75 V	A	13	
	110V	A	2	
IFC may summant to in DC2 DC5 with L/D < 15 may with 2 malas in series	220V	A	_	
IEC max current le in DC3-DC5 with $L/R \le 15$ ms with 2 poles in series	<0.4)/	٨	4.0	
	≤24V	A	18	
	48V	A	18	
	75V	A	16	
	110V	A	10	
	220V	A	2	
IEC max current le in DC3-DC5 with L/R $\leq$ 15ms with 3 poles in series			00	
	≤24V	A	22	
	48V	А	22	
	75V	A	18	
	110V	A	15	
	220V	A	8	
IEC max current le in DC3-DC5 with $L/R \le 15$ ms with 4 poles in series				
	≤24V	A	-	
	48V	А	-	
	75V	А	-	
	110V	А	-	
	220V	A	_	
Short-time allowable current for 10s (IEC/EN60947-1)		А	200	
Protection fuse				
	gG (IEC)	А	50	
	aM (IEC)	А	25	
Making capacity (RMS value)		Α	250	
Breaking capacity at voltage				
	440V	А	200	
	500V	А	184	
	690V	Α	102	
Resistance per pole (average value)		mΩ	2.5	
Power dissipation per pole (average value)				
	Ith	W	2.6	
	AC-3	W	1.6	
Tightening torque for terminals				
	min	Nm	1.5	
	max	Nm	1.8	
	min	Ibin	1.1	
	max	Ibin	1.5	
Tightening torque for coil terminal				
	min	Nm	0.8	
	max	Nm	1	
	min	Ibin	0.8	

BF2501A042



Max number of wires simultaneously connectable         Nr.         2           Conductor section         max         10           Flexible w/a lug conductor section         max         mm²         1           max         mm²         1         max         mm²         6           Flexible w/a lug conductor section         max         mm²         1         1           max         mm²         4         1			max	lbin	0.74
AWG/Kcmil         max         10           Flexible w/o lug conductor section         min         mm²         1           max         mm²         6         1           Flexible c/w lug conductor section         min         mm²         1           max         mm²         4         1           Plexible with insulated spade lug conductor section         min         mm²         1           max         mm²         4         1         1           Power terminal protection according to IEC/EN 60529         mm²         4         10           Operating position         normal         Vertical plan         10/00         10	Max number of wires	simultaneously connectable		Nr.	2
max         10           Flexible w/o lug conductor section         min         mm²         1           max         mm²         6           Flexible c/w lug conductor section         min         mm²         1           max         mm²         1         max         mm²         4           Flexible with insulated spade lug conductor section         min         mm²         1         1           max         mm²         1         max         mm²         4           Power terminal protection according to IEC/EN 60529         mm²         1	Conductor section	AVA/C/Komil			
Flexible w/o lug conductor section         min         mm²         1           max         mm²         1           Flexible c/w lug conductor section         min         mm²         1           max         mm²         1         max         mm²         1           Prevent terminal protection according to IEC/EN 60529         mm²         4         120 when properly wired           Mechanical features         mm²         4         120 when properly wired         120 when properly wired           Mechanical features         vertical plan         100°         430°         10°           Meight         g         360         360°         10°           Conductor section         max         10         10         10°           Autilary contact characteristics         max         10         10°           Autilary contact characteristics         3         400°         4         1.9           Operating current lb         A         10         400°         1.4         1.4           Operating current DC12         230°         A         3         600°         2.3         1.1           Operating current DC13         24V         A         5.7         2.9         600°         A		AWG/Refili	may		10
min         mm²         1           Flexible c/w lug conductor section         min         mm²         1           max         mm²         4           Flexible with insulated spade lug conductor section         min         mm²         1           max         mm²         1         1           max         mm²         1         1           max         mm²         1         1           Power terminal protection according to IEC/EN 60529         IP20 when properly wired         10           Mechanical features         0         35         360           Operating position         normal allowable         4.30°         Screw / DIN rail           System         360         Conductor section         360           AwG/kcmil conductor section         max         10         10           Auxiliary contact characteristics         10         10         10           EC/2NE 0847-S-1 designation         A 600 - P600         10         10           EC/2NE 0847-S-1 designation         A 600 - P600         10         10           EC/2NE 0847-S-1 designation         A 5.7         0         230V         A 1.4           Operating current DC13         24V         A 5.7		Flexible w/o lug conductor section	Пах		10
max         mm²         6           Flexible c/w lug conductor section         min         mm²         1           max         mm²         4           Flexible with insulated spade lug conductor section         min         mm²         1           max         mm²         1         max         mm²         4           Power terminal protection according to IEC/EN 60529         IP20 when properly wired         1         1           Operating position         normal         Vertical plan         30°         1           Fixing         Screw / DIN reil 35mm         360         3           Weight         g         360         3           Conductor section         A         10         1           Auxiliary contact characteristics         T         10           Auxiliary contact characteristics         T         10           Derating current b1         A         10         1           IEC/EN 60947-5-1 designation         A 600 - P600         0         1           Operating current DC12         110V         A         5.7         1           Operating current DC13         230V         A         1.4         1           Operating current DC13         24			min	mm²	1
Flexible c/w lug conductor section       min       mm²       1         max       mm²       1         Flexible with insulated spade lug conductor section       min       mm²       1         max       mm²       1       max       mm²       1         Power terminal protection according to IEC/EN 60529       IP20 when property wired       IP20 when property wired       10         Mechanical features       0       Screw / DIN rail       35mm       35mm         Querating position       g       360       360       360         Conductor section       g       360       360       35mm         Weight       g       360       360       35mm       35mm         Weight       g       360					-
min         mm²         1           Flexible with insulated spade lug conductor section         min         mm²         4           Power terminal protection according to IEC/EN 60529         IP20 when properly wired         IP20 when properly wired           Mechanical features         Vertical plan         ±30°           Screw / DIN rail         Screw / DIN rail         35mm           Weight         g         360           Conductor section         allowable         ±30°           AWG/kcmil conductor section         max         10           Auxiliary contact characteristics         T         10           Thermal current th         A         10         10           IEC/EN 60947-5-1 designation         A 600 - P600         000         230V         A         3           Querent DC12         110V         A         5.7         0         0         1.4           Operating current DC13         24V         A         5.7         0         1.4           Operating current DC13         24V         A         2.9         600V         A         2.5           Operating current DC13         24V         A         2.2         1.4         1.4         1.4         1.4         1.4		Flexible c/w lug conductor section			-
Flexible with insulated spade lug conductor section         min       min       mm²       1         max       mm²       1         max       mm²       1         Power terminal protection according to IEC/EN 60529       IP20 when property wired         Mechanical features       normal allowable       Vertical plan         Operating position       normal allowable       Vertical plan         Fixing       Screw / DIN rail 35mm       Screw / DIN rail 35mm         Weight       g       360         Conductor section       MWG/kcmil conductor section       Max         Auxiliary contact characteristics       10         Thermal current lth       A       10         IEC/EN 60947-5-1 designation       A600 - P600         Operating current DC12       110V       A         110V       A       5.7         Operating current DC13       24V       A         220V       A       0.2         00V       A       1.4         00v       A       2.9         60V       A       2.3         110V       A       5.7         Operating current DC13       24V       A         212V       A </td <td></td> <td></td> <td>min</td> <td>mm²</td> <td>1</td>			min	mm²	1
min         mm²         1           max         mm²         4           Power terminal protection according to IEC/EN 60529         IP20 when properly wired           Mechanical features         Uertical plan allowable         ±30°           Fixing         Screw / DIN rail 35mm         Screw / DIN rail 35mm           Weight         g         360           Conductor section         max         10           Awdiary contact characteristics            Themal current lth         A         10           EC/EN 60947-5-1 designation         A600 - P600           Operating current AC15         230V         A           Querted baracteristics          1.9           200V         A         1.9           500V         A         1.9           500V         A         1.4           Operating current DC12         110V         A         5.7           Operating current DC13         24V         A         5.7			max	mm²	4
min         mm²         1           max         mm²         4           Power terminal protection according to IEC/EN 60529         IP20 when properly wired           Mechanical features         Uestion           Operating position         normal         Vertical plan allowable         ±30°           Fixing         Screw / DIN rail 35mm         Screw / DIN rail 35mm           Weight         g         360           Conductor section         max         10           Awiliary contact characteristics         max         10           Thermal current lth         A         10           EC/EN 60947-5-1 designation         A600 - P600           Operating current AC15         230V         A           Quertating current DC12         110V         A         5.7           Operating current DC13         24V         A         5.7		Flexible with insulated spade lug conductor section	l		
Power terminal protection according to IEC/EN 60529           Mechanical features         report wired           Operating position         normal allowable         430°           Fixing         Screw / DIN rail 38mm         38mm           Weight         g         360           Conductor section         max         10           Auxiliary contact characteristics         max         10           Thermal current th         A         10           EC/EN 60947-5-1 designation         A600 - P600           Operating current AC15         230V         A         3           Goperating current DC12         10V         A         5.7           Operating current DC13         24V         A         5.7           Operating current DC13         24V         A         2.9           60V         A         2.3         110V         A         1.25           125V         A         1.1         220V         A         0.2           Operating current DC13         24V         A         5.7         2000000           Electrical life         cycles         2000000         220V         A         0.2           Operations         cycles         20000000         2360V         A				mm²	1
Power terminal protection according to TEC/EN 60529     property wired       Mechanical leatures     •       Operating position     normal allowable     ±30°       Fixing     Screw / DIN rail 35mm       Weight     g     360       Conductor section     max     10       Auxiliary contact characteristics     *     *       Thermal current Ith     A     10       IEC/EN 60947-5-1 designation     A600 - P600       Operating current AC15     230V     A       230V     A     3       4000V     A     1.9       500V     A     1.4       Operating current DC12     *     *       100V     A     5.7       Operating current DC13     24V     A       220V     A     1.1       220V     A     1.25       110V     A     1.25       125V     A     1.1       220V     A     0.2       Operating current DC13     *     *       Coperations     *     *       Mechanical life     cycles     2000000       Electrical life     cycles     1200000       Safety related data     *     2000000       Performance level B10d according to EN/ISO 13489-1			max	mm²	4
Mechanical features     properly wired       Operating position     normal allowable     Vertical plan ±30°       Fixing     Screw / DIN rail 38mm       Weight     g     360       Conductor section     max     10       Auxiliary contact characteristics     max     10       Thermal current th     A     10       EC/EN 60947-5-1 designation     A600 - P600       Operating current AC15     230V     A       200V     A     1.9       500V     A     1.9       500V     A     1.9       500V     A     1.4       Operating current DC12     110V     A       0perating current DC13     24V     A       220V     A     1.25       110V     A     1.25       110V     A     1.25       110V     A     0.2       Operating current DC13     24V     A       220V     A     1.1       220V     A     0.2       Operating current DC13     24V     A       220V     A     0.2       000V     A     0.2       000V     A     0.2       000V     A     0.2       000V     A     0.2	Power terminal proto	ation according to IEC/EN 60520			IP20 when
Operating position       normal allowable       Vertical plan ±30°         Fixing       Screw / DIN rail 35mm         Weight       g       360         Conductor section       max       10         AWG/kcmil conductor section       max       10         Auxiliary contact characteristics       max       10         Thermal current lth       A       10         IEC/EN 60947-5-1 designation       A 6600 - P600         Operating current AC15       230V       A         Quert of the second secon		ction according to IEC/EN 80329			properly wired
normal allowable     Vertical plan ±30°       Fixing     Screw / DIN rail 35mm       Weight     g       2     360       Conductor section     max       AWG/kcmil conductor section     max       Maxiliary contact characteristics     max       Thermal current lth     A       10     4600 - P600       Operating current AC15     230V       230V     A       3     400V       4     1.9       500V     A       4.0     1.4       Operating current DC12     110V       10     A       5.00V     A       4.8V     A       2.9     60V       60V     A       2.9     60V       4.8V     A       2.9     60V       4.1     2.9       60V     A       2.20V     A       110V     A       220V     A       0.55     600V       600V     A       0.2     2000000       Electrical life     cycles       200000     2000000       Sater     120000       mechanical load     cycles       1200000     ratel load       <					
allowable         ±30°           Fixing         Screw / DIN rail 35mm           Weight         g         360           Conductor section         max         10           AWG/kcmil conductor section         max         10           Auxiliary contact characteristics         max         10           EC/EN 60947-5-1 designation         A 0         10           Operating current AC15         230V         A         3           400V         A         1.9         500V         A         1.4           Operating current DC12         110V         A         5.7         5.7           Operating current DC13         24V         A         5.7         48V         A         2.9           60V         A         2.3         110V         A         1.1         220V         A         1.1         220V         A         0.2         000000         220V         A         0.55         600V         A         0.2         000000         220V         A         0.55         2000000         220V         A         0.52         2000000         236V         1.1         220V         A         0.55         60V         A         0.2         2000000         2	Operating position				
Fixing         Screw / DIN rail 35mm           Weight         g         360           Conductor section         max         10           AWG/kcmil conductor section         max         10           Auxiliary contact characteristics         max         10           Ihermal current lth         A         10           IEC/EN 60947-5-1 designation         A600 - P600           Operating current AC15         230V         A         3           400V         A         1.9         500V         A         1.4           Operating current DC12         110V         A         5.7         Operating current DC13         24V         A         5.7           Operating current DC13         24V         A         5.7         Operating current DC13         24V         A         5.7           Operating current DC13         24V         A         5.7         48V         A         2.9           GoU         A         0.25         100V         A         1.25         125V         A         1.1         220V         A         0.55         600V         A         2.2         0000000         20000000         20000000         20000000         200000000         24V         A					
Fixing         35mm           Weight         g         360           Conductor section          4           Awiliary contact characteristics          10           Auxiliary contact characteristics          4           Thermal current lth         A         10           EC/EN 60947-5-1 designation         A600 - P600           Operating current AC15         230V         A         3           4000V         A         1.9         500V         A         1.4           Operating current DC12          10         4         5.7         500V         A         1.4           Operating current DC13          4         5.7         48V         A         2.9         60V         A         1.25           1010V         A         1.25         125V         A         1.1         220V         A         0.52           Operations          2000000         2.3         100V         A         2.5           125V         A         1.1         220V         A         0.55         600V         A         0.2           Operations           cycles         12000			allowable		
Shim         Shim           Weight         g         360           Conductor section         max         10           Auxiliary contact characteristics         max         10           Thermal current lth         A         10           IEC/EN 60947-5-1 designation         A600 - P600           Operating current AC15         230V         A           230V         A         1.9           500V         A         1.4           Operating current DC12         110V         A           24V         A         5.7           Operating current DC13         24V         A           24V         A         5.7           Operating current DC13         24V         A           24V         A         5.7           00         48V         A         2.9           600V         A         1.25           125V         A         1.1           220V         A         0.55           600V         A         0.2           Operations         2000000         2000000           Electrical life         cycles         120000           Safety related data         2000000         <	Fixing				
AWG/kcmil conductor section         max         10           Auxiliary contact characteristics					
AWG/kcmil conductor section         max         10           Auxiliary contact characteristics         -         -           Thermal current lth         A         10           IEC/EN 60947-5-1 designation         -         A600 - P600           Operating current AC15         -         -           230V         A         3           400V         A         1.9           500V         A         1.4           Operating current DC12         -         -           110V         A         5.7           Operating current DC13         -         -           24V         A         5.7           Operating current DC13         -         -           24V         A         5.7           48V         A         2.9           60V         A         2.3           110V         A         1.25           125V         A         1.1           220V         A         0.55           600V         A         0.2           Operations         -         -           Mechanical life         cycles         2000000           Satety celated data         -         - <td></td> <td></td> <td></td> <td>g</td> <td>360</td>				g	360
max         10           Auxiliary contact characteristics         Thermal current lth         A         10           IEC/EN 60947-5-1 designation         A600 - P600         Operating current AC15         230V         A         3           Qoperating current AC15         230V         A         3         400V         A         1.9           Operating current DC12         500V         A         1.4         Operating current DC12	Conductor section				
Auxiliary contact characteristics         A         10           Thermal current lth         A         10           IEC/EN 60947-5-1 designation         A600 - P600           Operating current AC15         230V         A         3           400V         A         1.9         500V         A         1.4           Operating current DC12         110V         A         5.7         0           Operating current DC13         24V         A         5.7         0           Operating current DC13         24V         A         2.9         60V         A         2.3           110V         A         1.25         1.25V         A         1.1         220V         A         0.55         600V         A         0.2         0         0         2         0         0         0.2         0         0         0         2         0		AWG/kcmil conductor section			
Thermal current lth         A         10           IEC/EN 60947-5-1 designation         A600 - P600           Operating current AC15         230V         A         3           400V         A         1.9         500V         A         1.4           Operating current DC12         110V         A         5.7         0           Operating current DC13         24V         A         5.7         0           Querting current DC13         24V         A         5.7           Querting current DC13         48V         A         2.9           GOV         A         1.25         1.1         2.25         1.25V         A         1.1         220V         A         0.55         600V         A         0.2         000000         2.3         100V         A         0.2         20000000         2.3         100V			max		10
IEC/EN 60947-5-1 designation         A600 - P600           Operating current AC15         230V         A         3           400V         A         1.9         500V         A         1.4           Operating current DC12         110V         A         5.7         0           Operating current DC13         24V         A         5.7         0           Operating current DC13         24V         A         5.7         0           Operating current DC13         24V         A         5.7         0		acteristics		٨	10
Operating current AC15         230V         A         3           400V         A         1.9         500V         A         1.4           Operating current DC12         110V         A         5.7           Operating current DC13         24V         A         5.7           Operating current DC13         24V         A         5.7           48V         A         2.9         60V         A         2.3           110V         A         1.25         125V         A         1.1           220V         A         0.55         600V         A         0.2           Operations           2000000         Electrical life         cycles         1200000           Safety related data           2000000         20000000         Safety related data            Performance level B10d according to EN/ISO 13489-1         rated load         cycles         1200000         20000000           Mirror contats according to IEC/EN 609474-4-1         yes         20000000         20000000	i nermai current itn			A	10
230V         A         3           400V         A         1.9           500V         A         1.4           Operating current DC12         110V         A         5.7           Operating current DC13         24V         A         5.7           Operating current DC13         24V         A         2.9           60V         A         2.3         110V         A         1.25           110V         A         1.25         125V         A         1.1           220V         A         0.55         600V         A         0.2           Operations		aignotion		11	
400V         A         1.9           500V         A         1.4           Operating current DC12         110V         A         5.7           Operating current DC13         24V         A         5.7           Querating current DC13         24V         A         5.7           48V         A         2.9         60V         A         2.3           110V         A         1.25         125V         A         1.1           220V         A         0.55         600V         A         0.2           Operations	IEC/EN 60947-5-1 de			7.	
500V         A         1.4           Operating current DC12         110V         A         5.7           Operating current DC13         24V         A         5.7           48V         A         2.9         60V         A         2.3           110V         A         1.25         125V         A         1.1           220V         A         0.55         600V         A         0.55           600V         A         0.55         2000000         2000000           Electrical life         cycles         120000         200000           Safety related data         cycles         120000         2000000           Mirror contats according to EN/ISO 13489-1         rated load         cycles         2000000           Mirro	IEC/EN 60947-5-1 de		220)/		A600 - P600
Operating current DC12         110V         A         5.7           Operating current DC13         24V         A         5.7           48V         A         2.9         60V         A         2.3           110V         A         1.25         125V         A         1.1           220V         A         0.55         600V         A         0.2           Operations         X         X         X         X         X           Mechanical life         cycles         2000000         X         X         X           Performance level B10d according to EN/ISO 13489-1         rated load         cycles         1200000           Mirror contats according to IEC/EN 609474-4-1         yes         20000000         X         X	IEC/EN 60947-5-1 de			A	A600 - P600 3
110V         A         5.7           Operating current DC13         24V         A         5.7           48V         A         2.9         60V         A         2.3           110V         A         1.25         125V         A         1.1           220V         A         0.55         600V         A         0.2           Operations         Experimentation         Experimentation         Experimentation           Mechanical life         cycles         2000000         2000000           Electrical life         cycles         1200000         2000000           Safety related data         Image: Safety related data         Image: Safety related load         cycles         1200000           Mirror contats according to EN/ISO 13489-1         Image: Safety related load         cycles         1200000           Mirror contats according to IEC/EN 609474-4-1         yes         20000000         20000000	IEC/EN 60947-5-1 de		400V	A A	A600 - P600 3 1.9
Operating current DC13         24V         A         5.7           48V         A         2.9         60V         A         2.3           110V         A         1.25         125V         A         1.1           220V         A         0.55         600V         A         0.2           Operations         X         X         X         X         X           Mechanical life         cycles         2000000         Z         Z           Safety related data         X         X         X         X         X           Performance level B10d according to EN/ISO 13489-1         Tated load         cycles         1200000         Z         Z0000000         X         <	IEC/EN 60947-5-1 de Operating current AC	15	400V	A A	A600 - P600 3 1.9
24V       A       5.7         48V       A       2.9         60V       A       2.3         110V       A       1.25         125V       A       1.1         220V       A       0.55         60V       A       0.2         Operations         Mechanical life       cycles       2000000         Electrical life       cycles       120000         Safety related data         Performance level B10d according to EN/ISO 13489-1         rated load       cycles       1200000         Mirror contats according to IEC/EN 609474-4-1       yes         EMC compatibility       yes       yes	IEC/EN 60947-5-1 de Operating current AC	15	400V 500V	A A A	A600 - P600 3 1.9 1.4
48V       A       2.9         60V       A       2.3         110V       A       1.25         125V       A       1.1         220V       A       0.55         600V       A       0.2         Operations         Mechanical life       cycles       20000000         Electrical life       cycles       1200000         Safety related data         Performance level B10d according to EN/ISO 13489-1         rated load       cycles       1200000         Mirror contats according to IEC/EN 609474-4-1       yes       20000000         EMC compatibility       yes       1200000       1200000	IEC/EN 60947-5-1 de Operating current AC	15	400V 500V	A A A	A600 - P600 3 1.9 1.4
60V         A         2.3           110V         A         1.25           125V         A         1.1           220V         A         0.55           600V         A         0.2           Operations         volume         volume           Mechanical life         cycles         2000000           Electrical life         cycles         1200000           Safety related data         volume         volume           Performance level B10d according to EN/ISO 13489-1         rated load         cycles         1200000           Mirror contats according to IEC/EN 609474-4-1         yes         yes           EMC compatibility         yes         1200000	IEC/EN 60947-5-1 de Operating current AC	15	400V 500V 110V	A A A A	A600 - P600 3 1.9 1.4 5.7
110V       A       1.25         125V       A       1.1         220V       A       0.55         600V       A       0.2         Operations         Mechanical life       cycles       2000000         Electrical life       cycles       120000         Safety related data       rated load       cycles       120000         Performance level B10d according to EN/ISO 13489-1       rated load       cycles       1200000         Mirror contats according to IEC/EN 609474-4-1       yes       2000000       yes         EMC compatibility       yes       yes       120000	IEC/EN 60947-5-1 de Operating current AC	15	400V 500V 110V 24V	A A A A	A600 - P600 3 1.9 1.4 5.7 5.7
125V       A       1.1         220V       A       0.55         600V       A       0.2         Operations         Mechanical life       cycles       20000000         Electrical life       cycles       1200000         Safety related data         Performance level B10d according to EN/ISO 13489-1         rated load       cycles       1200000         mechanical load       cycles       1200000       20000000         Mirror contats according to IEC/EN 609474-4-1       yes       yes         EMC compatibility       yes       yes	IEC/EN 60947-5-1 de Operating current AC	15	400V 500V 110V 24V 48V	A A A A A	A600 - P600 3 1.9 1.4 5.7 5.7 2.9
220V 600VA0.55 0.2Operations	IEC/EN 60947-5-1 de Operating current AC	15	400V 500V 110V 24V 48V 60V	A A A A A A A	A600 - P600 3 1.9 1.4 5.7 5.7 5.7 2.9 2.3
600VA0.2Operationscycles2000000Mechanical lifecycles2000000Electrical lifecycles120000Safety related dataPerformance level B10d according to EN/ISO 13489-1rated loadcyclesrated loadcycles1200000mechanical loadcycles20000000Mirror contats according to IEC/EN 609474-4-1yesEMC compatibilityyes	IEC/EN 60947-5-1 de Operating current AC	15	400V 500V 110V 24V 48V 60V 110V	A A A A A A A A A	A600 - P600 3 1.9 1.4 5.7 5.7 5.7 2.9 2.3 1.25
Mechanical lifecycles2000000Electrical lifecycles120000Safety related dataPerformance level B10d according to EN/ISO 13489-1rated load mechanical loadcycles1200000Mirror contats according to IEC/EN 609474-4-1yesyesEMC compatibilityyes	IEC/EN 60947-5-1 de Operating current AC	15	400V 500V 110V 24V 48V 60V 110V 125V	A A A A A A A A A A	A600 - P600 3 1.9 1.4 5.7 5.7 2.9 2.3 1.25 1.1
Electrical life       cycles       1200000         Safety related data       Performance level B10d according to EN/ISO 13489-1       rated load       cycles       1200000         mechanical load       cycles       1200000       20000000       20000000         Mirror contats according to IEC/EN 609474-4-1       yes       yes         EMC compatibility       yes       yes	IEC/EN 60947-5-1 de Operating current AC	15	400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A A A A A	A600 - P600 3 1.9 1.4 5.7 5.7 2.9 2.3 1.25 1.1 0.55
Safety related data Performance level B10d according to EN/ISO 13489-1 rated load cycles 1200000 mechanical load cycles 20000000 Mirror contats according to IEC/EN 609474-4-1 EMC compatibility yes	IEC/EN 60947-5-1 de Operating current AC Operating current DC Operating current DC	15	400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A A A A A	A600 - P600 3 1.9 1.4 5.7 5.7 2.9 2.3 1.25 1.1 0.55
Performance level B10d according to EN/ISO 13489-1       rated load       cycles       1200000         mechanical load       cycles       20000000       20000000         Mirror contats according to IEC/EN 609474-4-1       yes       yes         EMC compatibility       yes	IEC/EN 60947-5-1 de Operating current AC Operating current DC Operating current DC	15	400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A A A A A A A	A600 - P600 3 1.9 1.4 5.7 5.7 2.9 2.3 1.25 1.1 0.55 0.2
rated load     cycles     1200000       mechanical load     cycles     20000000       Mirror contats according to IEC/EN 609474-4-1     yes       EMC compatibility     yes	IEC/EN 60947-5-1 de Operating current AC Operating current DC Operating current DC Operations Mechanical life	15	400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A A A A A A A Cycles	A600 - P600 3 1.9 1.4 5.7 5.7 2.9 2.3 1.25 1.1 0.55 0.2 20000000
mechanical load       cycles       2000000         Mirror contats according to IEC/EN 609474-4-1       yes         EMC compatibility       yes	IEC/EN 60947-5-1 de Operating current AC Operating current DC Operating current DC Operating current DC	15	400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A A A A A A A Cycles	A600 - P600 3 1.9 1.4 5.7 5.7 2.9 2.3 1.25 1.1 0.55 0.2 20000000
Mirror contats according to IEC/EN 609474-4-1     yes       EMC compatibility     yes	IEC/EN 60947-5-1 de Operating current AC Operating current DC Operating current DC Operating current DC Operations Mechanical life Electrical life Safety related data	15	400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A A A A A A Cycles	A600 - P600 3 1.9 1.4 5.7 5.7 2.9 2.3 1.25 1.1 0.55 0.2 20000000
EMC compatibility yes	IEC/EN 60947-5-1 de Operating current AC Operating current DC Operating current DC Operating current DC Operations Mechanical life Electrical life Safety related data	15	400V 500V 110V 24V 48V 60V 110V 125V 220V 600V	A A A A A A A A A A A Cycles cycles	A600 - P600 3 1.9 1.4 5.7 5.7 2.9 2.3 1.25 1.1 0.55 0.2 20000000 1200000 1200000
	IEC/EN 60947-5-1 de Operating current AC Operating current DC Operating current DC Operating current DC Operations Mechanical life Electrical life Safety related data Performance level B1	15 12 13 10d according to EN/ISO 13489-1	400V 500V 110V 24V 48V 60V 110V 125V 220V 600V	A A A A A A A A A A A Cycles cycles	A600 - P600 3 1.9 1.4 5.7 5.7 2.9 2.3 1.25 1.1 0.55 0.2 20000000 1200000 1200000
AC coil operating	IEC/EN 60947-5-1 de Operating current AC Operating current DC Operating current DC Operating current DC Operations Mechanical life Electrical life Safety related data Performance level B1 Mirror contats accord	15 12 13 10d according to EN/ISO 13489-1	400V 500V 110V 24V 48V 60V 110V 125V 220V 600V	A A A A A A A A A A A Cycles cycles	A600 - P600 3 1.9 1.4 5.7 5.7 2.9 2.3 1.25 1.1 0.55 0.2 20000000 1200000 1200000 1200000
	IEC/EN 60947-5-1 de         Operating current AC         Operating current DC         Operations         Mechanical life         Electrical life         Safety related data         Performance level B1         Mirror contats accord         EMC compatibility	15 12 13 10d according to EN/ISO 13489-1	400V 500V 110V 24V 48V 60V 110V 125V 220V 600V	A A A A A A A A A A A Cycles cycles	A600 - P600 3 1.9 1.4 5.7 5.7 2.9 2.3 1.25 1.1 0.55 0.2 20000000 1200000 1200000 1200000 yes



BF2501A042

Rated AC voltage at 5	D/60Hz		V	42
AC operating voltage				
	of 50/60Hz coil powered at 50Hz			
	pick-up			
		min	%Us	80
		max	%Us	110
	drop-out		0/11	
		min	%Us	20
	of 50/001 to opil new grad at 001 to	max	%Us	55
	of 50/60Hz coil powered at 60Hz			
	pick-up	min	%Us	85
		min	%Us %Us	85 110
	drop-out	max	7005	110
	arop-out	min	%Us	20
		max	%Us	20 55
AC average coil consu	motion at 20°C	max	/003	55
	of 50/60Hz coil powered at 50Hz			
		in-rush	VA	75
		holding	VA VA	9
	of 50/60Hz coil powered at 60Hz	noiding	., (	-
		in-rush	VA	70
		holding	VA	6.5
	of 60Hz coil powered at 60Hz			
		in-rush	VA	75
		holding	VA	9
Dissipation at holding	≤20°C 50Hz		W	2.5
Max cycles frequency				
Mechanical operation			cycles/h	3600
			cycles/h	3600
Operating times	ontrol		cycles/h	3600
Operating times	ontrol in AC		cycles/h	3600
Operating times			cycles/h	3600
Operating times	in AC	min	cycles/h	3600 8
Operating times	in AC Closing NO	min max		
Operating times	in AC	max	ms	8 24
Operating times	in AC Closing NO		ms ms ms	8 24 10
Operating times	in AC Closing NO Opening NO	max	ms ms	8 24
Operating times	in AC Closing NO	max min max	ms ms ms ms	8 24 10 20
Operating times	in AC Closing NO Opening NO	max min max min	ms ms ms ms ms	8 24 10 20 14
Operating times	in AC Closing NO Opening NO Closing NC	max min max	ms ms ms ms	8 24 10 20
Operating times	in AC Closing NO Opening NO	max min max min max	ms ms ms ms ms	8 24 10 20 14 28
Operating times	in AC Closing NO Opening NO Closing NC	max min max min max min	ms ms ms ms ms ms	8 24 10 20 14 28 7
Operating times Average time for Us co	in AC Closing NO Opening NO Closing NC	max min max min max	ms ms ms ms ms	8 24 10 20 14 28
Operating times Average time for Us co	in AC Closing NO Opening NO Closing NC Opening NC	max min max min max min	ms ms ms ms ms ms	8 24 10 20 14 28 7
Operating times Average time for Us co	in AC Closing NO Opening NO Closing NC	max min max min max min max	ms ms ms ms ms ms ms	8 24 10 20 14 28 7 18
Operating times Average time for Us co	in AC Closing NO Opening NO Closing NC Opening NC	max min max min max min max at 480V	ms ms ms ms ms ms ms	8 24 10 20 14 28 7 18 21
Operating times Average time for Us co UL technical data Full-load current (FLA)	in AC Closing NO Opening NO Opening NO Closing NC Opening NC opening NC	max min max min max min max	ms ms ms ms ms ms ms	8 24 10 20 14 28 7 18
Operating times Average time for Us co UL technical data Full-load current (FLA)	in AC Closing NO Opening NO Opening NO Closing NC Opening NC opening NC	max min max min max min max at 480V	ms ms ms ms ms ms ms	8 24 10 20 14 28 7 18 21
Operating times Average time for Us co UL technical data Full-load current (FLA)	in AC Closing NO Opening NO Opening NO Closing NC Opening NC opening NC	max min max min max min max at 480V at 600V	ms ms ms ms ms ms ms	8 24 10 20 14 28 7 18 21 17
	in AC Closing NO Opening NO Opening NO Closing NC Opening NC opening NC	max min max min max min max at 480V at 600V	ms ms ms ms ms ms A A	8 24 10 20 14 28 7 18 21 17 2
Operating times Average time for Us co UL technical data Full-load current (FLA)	in AC Closing NO Opening NO Opening NO Closing NC Opening NC Opening NC	max min max min max min max at 480V at 600V	ms ms ms ms ms ms ms	8 24 10 20 14 28 7 18 21 17
Operating times Average time for Us co UL technical data Full-load current (FLA)	in AC Closing NO Opening NO Opening NO Closing NC Opening NC opening NC	max min max min max min max at 480V at 600V	ms ms ms ms ms ms A A	8 24 10 20 14 28 7 18 21 17 2

BF2501A042

The characteristics described in this document are subject to updates or modifications at any time. The descriptions, technical and functional information, illustrations and instructions in this brochure are purely illustrative, and are consequently not contractually binding



		220/230V	HP	7.5
		460/480V	HP	15
		575/600V	HP	15
General USE				
	Contactor			
		AC current	А	32
	Auxiliary contacts			
		AC voltage	V	600
		AC current	А	10
		DC voltage	V	250
		DC current	А	1
Short-circuit protec	tion fuse, 600V			
	High fault			
		Short circuit current	kA	100
		Fuse rating	А	60
		Fuse class		J
	Standard fault			
		Short circuit current	kA	5
		Fuse rating	А	100
Contact rating of au	ixiliary contacts according to UL			A600 - P600
Ambient conditions				
Temperature				
	Operating temperature			
		min	°C	-50
		max	°C	70
	Storage temperature			
		min	°C	-60
		max	°C	80
Max altitude			m	3000
Resistance & Prote	ection			
Pollution degree				3