## BF3800A110



THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 38A, AC COIL 50/60HZ, 110VAC



Product designation			Power contactor
Product type designation			BF38
Contact characteristics			2.00
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	56
Operational current le			
	AC-1 (≤40°C)	А	56
	AC-1 (≤40°C) with 16mm <sup>2</sup> wire and fork end		60
	AC-1 (≤55°C)	Ă	45
	AC-1 (≤55°C) with 16mm <sup>2</sup> wire and fork end		48
	AC-1 (≤70°C)	Ă	40
	AC-1 (≤70°C) with 16mm² wire and fork end		42
	`´ AC-3 (≤440V ≤55°C)	Ă	38
	AC-4 (400V)	А	15.5
Rated operational power AC-3 (T≤55°C)			
,	230V	kW	11
	400V	kW	18.5
	415V	kW	18.5
	440V	kW	18.5
	500V	kW	20
	690V	kW	22
Rated operational power AC-1 (T≤40°C)			
	230V	kW	21
	400V	kW	36
	500V	kW	45
	690V	kW	62
IEC max current le in DC1 with L/R ≤ 1ms wit	h 1 poles in series		
	≤24V	А	35
	48V	А	30
	75V	А	23
	110V	А	8
	220V	А	-
IEC max current le in DC1 with L/R ≤ 1ms wit	h 2 poles in series		
	≤24V	А	36
	48V	А	34
	75V	А	29
	110V	А	32
	220V	А	4
IEC max current le in DC1 with L/R ≤ 1ms wit	h 3 poles in series		
	≤24V	А	36

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	48V	А	34
	75V	А	33
	110V	А	34
	220V	А	30
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series			
	≤24V	А	36
	48V	A	34
	48V 75V	A	33
	110V	A	34
	220V	A	38
IEC may autrent to in DC2 DC5 with L/P < 15mg with 1 polog in agrice	2200	A	30
IEC max current le in DC3-DC5 with $L/R \le 15$ ms with 1 poles in series	<0.4) (	٨	0.4
	≤24V	A	24
	48V	A	20
	75V	A	17
	110V	А	2,5
	220V	A	_
IEC max current le in DC3-DC5 with L/R $\leq$ 15ms with 2 poles in series			
	≤24V	А	28
	48V	А	25
	75V	А	22
	110V	А	18
	220V	А	3
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series			
	≤24V	А	32
	48V	А	28
	75V	A	28
	110V	A	23
	220V	A	25
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series	2201		20
	≤24V	А	32
	48V	A	28
	48V 75V	A	28
		A	
	110V		23
	220V	<u>A</u>	15
Short-time allowable current for 10s (IEC/EN60947-1)		A	320
Protection fuse		_	
	gG (IEC)	A	63
	aM (IEC)	A	40
Making capacity (RMS value)		A	380
Breaking capacity at voltage			
	440V	А	304
	500V	А	240
	690V	А	192
Resistance per pole (average value)		mΩ	2
Power dissipation per pole (average value)			
	lth	W	6
	AC-3	W	2.9
Tightening torque for terminals			
	min	Nm	2.5
	max	Nm	3
	min	Ibin	3 1.8
		Ibin	2.2
	max		۷.۷

## Tightening torque for coil terminal



BF3800A110 THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 38A, AC COIL 50/60HZ, 110VAC

AWG/Kcmil         max         6           Flexible w/o lug conductor section         min         mm²         2.5           max         mm²         16           Flexible c/w lug conductor section         min         mm²         1           Flexible c/w lug conductor section         min         mm²         1           Flexible with insulated spade lug conductor section         min         mm²         1           Power terminal protection according to IEC/EN 60529         IP20 when properly wired         IP20 when properly wired           Mechanical features         U         Vertical plan         ±30°           Operating position         g         423         Screw / DIN rail           String         g         423         Screw / DIN rail           Mechanical features         g         423         Screw / DIN rail           String         g         423         Screw / DIN rail         String           Weight         g         423         Screw / DIN rail         String           Screw / DiN rail         String         String         String         String           Mechanical life         cycles         1400000         String         String           String         String         Strin						
mink     Nm     1       mink     bin     0.8       max     nmax     bin     0.74       Max number of wires simultaneously connectable     Nr.     2       Conductor section     max     min     mm <sup>2</sup> 1       Flexible w/o lug conductor section     min     mm <sup>2</sup> 2.5       mink     mm <sup>2</sup> 16       Flexible c/w lug conductor section     min     mm <sup>2</sup> 1       mink     mm <sup>2</sup> 10     1       Power terminal protection according to IEC/EN 60529     min     mm <sup>2</sup> 1       Power terminal protection according to IEC/EN 60529     roperly wired     mex       Mechanical features     yoperly wired     yoperly wired       Conductor section     normal     Yortical plan     30       Fixing     Screw / DIN rail     35mm     35mm       Weight     g     4.23     20       Conductor section     mechanical lide     yoles     1400000       Performance level B104 according to EN/ISO 13489-1     yes     20000000       Mirror contats according to EN/ISO 13489-1     yes     20000000       Mirror contats according to EN/ISO 13489-1     yes     20000000       Mirror contats according to EN/ISO 13489-1     yes     20000000       <			min	Nm	0.8	
max         lbin         0.74           Max number of wires simultaneously connectable         Nr.         2           Conductor section         max         Nr.         6           Flexible w/o lug conductor section         max         mm²         16           Flexible w/o lug conductor section         min         mm²         2.5           max         mm²         16         1           Flexible w/u lug conductor section         min         mm²         10           Flexible w/u lug conductor section         min         mm²         10           Prever terminal protection according to IEC/EN 60529         mm²         10           Prower terminal protection according to IEC/EN 60529         mormal         sorm           Properting position         normal         wertical plan         sorm           Operating position         g         423         sorm           Fixing         g         423         sorm           Weight         g         423         sorm           Conductor section         max         sorm         sorm           AWG/kcmil conductor section         max         sorm         sorm           Performance level B10d according to EN/ISO 13489-1         retael load <t< td=""><td></td><td></td><td>max</td><td>Nm</td><td></td></t<>			max	Nm		
Max number of wires simultaneously connectable Nr. 2 Conductor section AWG/Kcmil max 6 Flexible w/o lug conductor section min mm² 10 Flexible w/o lug conductor section min mm² 1 flexible w/o lug conductor section min mm² 1 flexible w/o lug conductor section flexible w/o lug conductor section min mm² 1 flexible w/o lug conductor section flexible w/o lug conductor section min mm² 1 flexible w/o lug conductor section min mm² 10 Flexible w/o lug conductor section min max mm² 10 Flexible w/o lug conductor section min max mm² 10 Flexible w/o lug conductor section normal allowable sign Weight grav Weight Gody/kcmil conductor section Mechanical life cycles 1400000 mechanical load flexipp visit flexipp min %Us 80 flexipp min %Us 80 max %Us 110 flexipp min %Us 85 max %			min	Ibin	0.8	
Conductor section AWG/Kcmil Flexible w/o lug conductor section Flexible Flexible w/o lug conductor section Flexible w/o/kcmil conductor section Flexi			max	Ibin	0.74	
Conductor section         max         6           Flexible w/o lug conductor section         min         mm²         2.5           max         mm²         16           Flexible c/w lug conductor section         min         mm²         1           Flexible c/w lug conductor section         min         mm²         1           Flexible with insulated spade lug conductor section         min         mm²         1           Power terminal protection according to IEC/EN 60529         IP20 when properly wired         IP20 when properly wired           Mechanical features         orgenating position         screw / DIN rail         35mm           Weight         g         423         Conductor section         35mm           Weight         g         423         Conductor section         400000           AWG/kcmil conductor section         max         6         0           Operations         cycles         1400000         20000000           Electrical life         cycles         1400000         2000000           Stelly related data         yes         1400000         20000000           Micro contats according to IEC/EN 609474-4-1         yes         20000000           Micro contats according to IEC/EN 609474-4-1         yes	Max number of wires s	imultaneously connectable		Nr.	2	
max     6       Flexible w/o lug conductor section     min     mm²     2.5       max     mm²     16       Flexible c/w lug conductor section     min     mm²     1       max     mm²     1     1       Power terminal protection according to IEC/EN 60529     IP20 when properly wired     IP20 when properly wired       Mechanical testures     Operating position     IP20 when properly wired     30m3       Operating position     mormal     Vertical plan     30m3       Weight     g     423     20       Conductor section     max     6     20000000       AWG/kcmil conductor section     max     6     20000000       Conductor section     max     6     20000000       AWG/kcmil conductor section     max     6     20000000       Conductor section     max     9     1400000 <td>Conductor section</td> <td></td> <td></td> <td></td> <td></td>	Conductor section					
Flexible w/o lug conductor section         min         mm²         2.5           max         mm²         16           Flexible c/w lug conductor section         min         mm²         1           max         mm²         10         1           Flexible with insulated spade lug conductor section         min         mm²         1           Power terminal protection according to IEC/EN 60529         IP20 when         IP20 when           Power terminal protection according to IEC/EN 60529         Vertical plan         ±30"           Machanical features         Screw / DIN rail         Screw / DIN rail           Sector         allowable         ±30"           Weight         g         423           Conductor section         max         6           Operations         max         6           Operations         vertical plan         ±30"           Electrical life         cycles         20000000           Electrical life         cycles         2000000           EMC conductor section         max         6           Operations         vertical plan         ±30"           Machanical life         cycles         20000000           Electrical life         cycles         1400		AWG/Kcmil				
min         mm²         2.5 max           Flexible c/w lug conductor section         min         mm²         1           max         mm²         10           Flexible with insulated spade lug conductor section         min         mm²         1           max         mm²         10         10           Power terminal protection according to IEC/EN 60529         IP20 when property wired         IP20 when property wired           Mechanical features         Vertical plan         30"           Screw / DIN rail         SSrew / DIN rail         SSrew / DIN rail           Weight         g         423           Conductor section         max         6           Operations         G         Screw / DIN rail           Mechanical life         cycles         2000000           Electrical life         cycles         2000000           Safety rolated data         eyes         423           Performance level B100 according to EN/ISO 13489-1         yes         1400000           Miror contats according to EC/EN 609474-4-1         yes         20000000           Miror contats according to EC/EN 609474-4-1         yes         20000000           Miror contats according to EC/EN 609474-4-1         yes         110 <tr< td=""><td></td><td></td><td>max</td><td></td><td>6</td></tr<>			max		6	
max         mm2         16           Flexible c/w lug conductor section         min         mm2         1           max         mm2         10         10           Flexible with insulated spade lug conductor section         min         mm2         1           Power terminal protection according to IEC/EN 60529         IP20 when         IP20 when         IP20 when           Power terminal protection according to IEC/EN 60529         IP20 when         IP20 when         IP20 when           Power terminal protection according to IEC/EN 60529         IP20 when         IP20 when         IP20 when           Power terminal protection according to IEC/EN 60529         IP20 when         IP20 when         IP20 when           Fixing         Inormal         IP20 when         IP20 when         IP20 when           Fixing         Inormal         IP20 when         IP20 when         IP20 when           Weight         g         423         IP20 when		Flexible w/o lug conductor section				
Flexible c/w lug conductor section       min       mm <sup>2</sup> 1         max       mm <sup>2</sup> 1       1         Flexible with insulated spade lug conductor section       min       mm <sup>2</sup> 1         Power terminal protection according to IEC/EN 60529       IP20 when properly wired       IP20 when properly wired         Mechanical features       ormal       Vertical plan       ±30°         Screw / DIN rail       38mm       Vertical plan       38mm         Weight       g       423       Conductor section       38mm         Conductor section       max       6       Operating 2000000       1400000         Statey related data       eycles       1400000       20000000         Performance level B10d according to EIV/ISO 13489-1       rated load       cycles       1400000         Miror contats according to IEC/EN 609474-4-1       yes       20000000       2000000         Miror contats according to IEC/EN 609474-4-1       yes       20000000       2000000         Miror contats according to IEC/EN 609474-4-1       yes       20000000       2000000       20000000       2000000       2000000       20000000       2000000       2000000       20000000       2000000       2000000       20000000       20000000       2000000			min	mm²	2.5	
min     min     mm²     1       Flexible with insulated spade lug conductor section     min     mm²     1       Power terminal protection according to IEC/EN 60529     IP20 when properly wired     IP20 when properly wired       Machanical features     operating position     IP20 when properly wired       Operating position     normal allowable     430°       Fixing     Screw / DIN rail     35mm       Weight     g     423       Conductor section     max     6       Operating     max     6       Operations     Vertical plan     35mm       Mechanical life     cycles     2000000       Electrical life     cycles     1400000       Safety related data     yes     20000000       Mirror contats according to EN/ISO 13489-1     rated load     cycles     1400000       Mirror contats according to EC/EN 609474-4-1     yes     20000000       Mirror contats according to EC/EN 609474-60     V     110       AC coll operating     of 50/60Hz coil powered at 50Hz     fick-up       pick-up <td></td> <td></td> <td>max</td> <td>mm²</td> <td>16</td>			max	mm²	16	
max         mm2         10           Flexible with insulated spade lug conductor section         min         mm2         1           Power terminal protection according to IEC/EN 60529         IP20 when properly wired         IP20 when properly wired           Mechanical features         operating position         reprice training position         Vertical plan           *30°         screw / DIN ralit         screw / DIN ralit         screw / DIN ralit           AWG/komil conductor section         max         6           Operating         g         423           Conductor section         max         6           Operating         cycles         2000000           Electrical life         cycles         2000000           Electrical life         cycles         2000000           Sterty related data         cycles         1400000           Mircor contats according to EN/ISO 13489-1         rated load         cycles         2000000           Mircor contats according to IEC/EN 609474-4-1         yes         2000000         2000000           Mircor contats according to IEC/EN 609474-4-1         yes         2000000         2000000           Mircor contats according to IEC/EN 609474-4-1         yes         2000000         2000000         200000      <		Flexible c/w lug conductor section				
Flexible with insulated spade lug conductor section         min       mm²       1         max       mm²       1         max       mm²       1         Prevent terminal protection according to IEC/EN 60529         Mechanical features         Operating position         normal allowable       +30°         Screw / DIN rail 35mm         Weight       g       423         Conductor section         AWG/kcmil conductor section         Max       6         Operations         Mechanical life       cycles       2000000         Electrical life       cycles       1400000         Safety related data         Performance level B10d according to EN/ISO 13489-1       rated load       cycles       1400000         Mechanical life       cycles       20000000         Electrical life       cycles       1400000         Safety related data       yes         Conductor section       max       6 <td colspa<="" td=""><td></td><td></td><td>min</td><td>mm²</td><td>1</td></td>	<td></td> <td></td> <td>min</td> <td>mm²</td> <td>1</td>			min	mm²	1
min     mm²     1       max     mm²     10       Power terminal protection according to IEC/EN 60529     IP20 when properly wired       Mechanical features     IP20 when properly wired       Operating position     normal allowable     Vertical plan ±30°       Fixing     Screw / DIN rail 35mm       Weight     g     423       Conductor section     max     6       Operations     mechanical life     cycles       Conductor section     max     6       Operations     cycles     1400000       Safety related data     evel     1400000       Performance level B10d according to EN/ISO 13489-1     evel     1400000       Mirror contats according to IEC/EN 609474-4-1     yes     20000000       Material AC Operating     v     110       AC operating voltage at 50/60Hz     V     110       AC operating voltage at 50/60Hz     V     110				mm²	10	
max     mm²     10       Power terminal protection according to IEC/EN 60529     IP20 when properly wired       Machanical features     normal allowable     Vertical plan ±30°       Fixing     0     g     423       Weight     g     423       Conductor section AWG/kcmil conductor section     max     6       Operating     max     6       Operating     max     6       Operations     cycles     20000000       Electrical life     cycles     20000000       Electrical life     cycles     1400000       Safety related data     yes     20000000       Mirror contats according to EC/EN 609474-4-1     yes     20000000       Mirror contats according to IEC/EN 609474-4-1     yes     20000000       Mirror contats according to IEC/EN 609474-4-1     yes     20000000       Mirror contats according to IEC/EN 609474-4-1     yes     yes       AC coll operating     will     80     max       AC coll operating     min     %Us     80       Acc operating     min     %Us     55       of 50/60Hz coil powered at 50Hz     min     %Us     55       of 50/60Hz coil powered at 60Hz     min     %Us     55       of 50/60Hz coil powered at 60Hz     min </td <td></td> <td>Flexible with insulated spade lug conduct</td> <td>or section</td> <td></td> <td></td>		Flexible with insulated spade lug conduct	or section			
Power terminal protection according to IEC/EN 60529  Mechanical features Operating position  Operating position  Inormal  Inormal In			min			
Power terminal protection according to IEC/EN 60529			max	mm²		
Mechanical features     propenty wired       Operating position     normal allowable     Vertical plan ±30°       Fixing     screw / DIN rail 35mm       Weight     g     423       Conductor section     max     6       Operations     cycles     2000000       Mechanical life     cycles     2000000       Electrical life     cycles     140000       Safety related data     rated load     cycles     140000       Performance level B10d according to EN/ISO 13489-1     rated load     cycles     1400000       Miror contats according to IEC/EN 609474-4-1     yes     20000000       AC coil operating     v     110       AC coil operating     of 50/60Hz coil powered at 50Hz     v     110       AC operating voltage     of 50/60Hz coil powered at 60Hz     max     %Us     55       of 50/60Hz coil powered at 60Hz     min     %Us     55     55       of 50/60Hz coil powered at 60Hz     min     %Us     85       min     %Us     85     max     %Us     110	Power terminal protect	tion according to IEC/EN 60529				
Operating position         normal allowable         Vertical plan allowable           Fixing         ±30°           Fixing         g         423           Weight         g         423           Conductor section         max         6           OperationS         cycles         2000000           Electrical life         cycles         2000000           Electrical life         cycles         140000           Safety related data         cycles         140000           Performance level B10d according to EN/ISO 13489-1         rated load         cycles         140000           Mirror contats according to IEC/EN 609474-4-1         yes         20000000         20000000           Mirror contats according to IEC/EN 609474-4-1         yes         yes         20000000           AC coil operating         v         110         AC coil operating         v         110           AC coil operating         of 50/60Hz coil powered at 50Hz pick-up         min         %Us         110           AC operating voltage         of 50/60Hz coil powered at 60Hz pick-up         min         %Us         55           of 50/60Hz coil powered at 60Hz pick-up         min         %Us         55         50           min< %Us	·				properly wired	
normal allowable to vertical plan at some to vertical plan allowable to vertical plan at some to vertical plan allowable to verti						
allowable         ±30°           Fixing         Screw / DIN rail           Weight         g         423           Conductor section         max         6           Operations         max         6           Mechanical life         cycles         2000000           Electrical life         cycles         1400000           Safety related data         cycles         1400000           Performance level B10d according to EN/ISO 13489-1         rated load         cycles         1400000           Mirror contats according to IEC/EN 609474-4.1         yes         20000000         20000000           Mirror contats according to IEC/EN 609474-4.1         yes         20000000         20000000           Mirror contats according to IEC/EN 609474-4.1         yes         20000000         20000000           AC coil operating         to f 50/60Hz         V         110           AC operating voltage         of 50/60Hz         V         110           AC operating voltage         of 50/60Hz         to in %US         80           max         %US         55         55           of 50/60Hz         pick-up         min         %US         55           of 50/60Hz         pick-up         min	Operating position					
Fixing Screw / DIN rail Screw / DIN rail S5mm Weight g 423 Conductor section AWG/kcmil conductor section aWG/kcmil conductor section AWG/kcmil conductor section max 6 Operations Mechanical life cycles 2000000 Electrical life cycles 1400000 Safety related data Performance level B10d according to EN/ISO 13489-1 rated load cycles 1400000 mechanical load cycles 1400000 Mirror contats according to IEC/EN 609474-4-1 EMC compatibility yes AC coil operating Rated AC voltage at 50/60Hz coil powered at 50Hz pick-up min %US 80 max %US 110 drop-out min %US 20 max %US 55 of 50/60Hz coil powered at 60Hz pick-up min %US 85 max %US 110						
Pking         35mm           Weight         g         423           Conductor section         AWG/kcmil conductor section         max         6           Operations         6         0 <td< td=""><td></td><td></td><td>allowable</td><td></td><td></td></td<>			allowable			
Weight         g         423           Conductor section         max         6           Operations         6           Mechanical life         cycles         2000000           Electrical life         cycles         140000           Safety related data         7         7           Performance level B10d according to EN/ISO 13489-1         rated load         cycles         140000           Mirror contats according to IEC/EN 609474-4-1         yes         20000000         20000000           Mirror contats according to IEC/EN 609474-4-1         yes         20000000         20000000           Marcol operating         yes         20000000         2000000         2000000         2000000         2000000         2000000         2000000         2000000         2000000         2000000         2000000         2000000         2000000         2000000         2000000         2000000         2000000 <td>Fixing</td> <td></td> <td></td> <td></td> <td></td>	Fixing					
Conductor section          AWG/kcmil conductor section       max       6         Operations	Woight			0		
M@G/kcmil conductor section         max         6           Operations         verset         S000000           Bechanical life         cycles         2000000           Electrical life         cycles         2000000           Safety related data         cycles         1400000           Safety related data         cycles         1400000           mated load         cycles         1400000           mated Acc voltage at 50/60Hz         yes           AC coil poperating         V         110           AC operating voltage         v         v           of 50/60Hz coil powered at 50Hz         yick-up         min         %Us         300           drop-out         min         %Us         S0           of 50/60Hz coil powered at 50Hz         yick-up         min         %Us         S0           drop-out         min         %Us         S0 <t< td=""><td>-</td><td></td><td></td><td>y</td><td>423</td></t<>	-			y	423	
max         6           Operations		AWG/kemil conductor section				
Operations       cycles       2000000         Electrical life       cycles       140000         Safety related data		AVVG/Remii conductor section	may		6	
Mechanical life         cycles         2000000           Electrical life         cycles         140000           Safety related data	Operations		IIIdx		0	
Electrical life cycles 140000 Safety related data Performance level B10d according to EN/ISO 13489-1 rated load cycles 1400000 mechanical load cycles 20000000 Mirror contats according to IEC/EN 609474-4-1 yes EMC compatibility yes AC coil operating Rated AC voltage at 50/60Hz of 50/60Hz coil powered at 50Hz pick-up min %Us 80 max %Us 110 drop-out min %Us 20 max %Us 55 of 50/60Hz coil powered at 60Hz pick-up min %Us 85 max %Us 110 drop-out min %Us 85 max %Us 110				cycles	20000000	
Safety related data Performance level B10d according to EN/ISO 13489-1 rated load cycles 1400000 mechanical load cycles 20000000 Mirror contats according to IEC/EN 609474-4-1 yes EMC compatibility yes AC coil operating Rated AC voltage at 50/60Hz V 110 AC operating voltage of 50/60Hz coil powered at 50Hz pick-up min %Us 80 max %Us 110 drop-out min %Us 20 max %Us 55 of 50/60Hz coil powered at 60Hz pick-up min %Us 85 max %Us 110				-		
Performance level B10d according to EN/ISO 13489-1 rated load cycles 1400000 mechanical load cycles 20000000 Mirror contats according to IEC/EN 609474-4-1 ves EMC compatibility AC coll operating Rated AC voltage at 50/60Hz AC operating voltage of 50/60Hz coil powered at 50Hz pick-up min %Us 80 max %Us 110 fo 50/60Hz coil powered at 60Hz pick-up min %Us 85 max %Us 110 drop-out %Us 110 %Us 85 max %Us 110 %Us %Us 85 max %Us 110 %Us				0)0.00		
rated load cycles 1400000 mechanical load cycles 20000000 Mirror contats according to IEC/EN 609474-4-1 yes EMC compatibility yes AC coil operating AC coil operating Mated AC voltage at 50/60Hz coil powered at 50Hz pick-up vilage of 50/60Hz coil powered at 50Hz pick-up vilage Min %Us 80 max %Us 110 drop-out min %Us 20 max %Us 55 of 50/60Hz coil powered at 60Hz pick-up vilage Min %Us 85 max %Us 110 Min %Us 85 max %Us 110		d according to EN/ISO 13489-1				
mechanical load       cycles       2000000         Mirror contats according to IEC/EN 609474-4-1       yes         EMC compatibility       yes         AC coil operating       yes         Ac coil operating       V       110         AC operating voltage       of 50/60Hz coil powered at 50Hz pick-up       V       110         AC operating voltage       of 50/60Hz coil powered at 50Hz pick-up       min       %Us       80 max         Miror-out       min       %Us       55       55         of 50/60Hz coil powered at 60Hz pick-up       min       %Us       55         of 50/60Hz coil powered at 60Hz pick-up       min       %Us       85 max         Miror-out       min       %Us       85 max         Miror-out       min       %Us       85 max			rated load	cvcles	1400000	
Mirror contats according to IEC/EN 609474-4-1 yes EMC compatibility yes AC coil operating Rated AC voltage at 50/60Hz V 110 AC operating voltage of 50/60Hz coil powered at 50Hz pick-up Min %Us 80 max %Us 110 drop-out Min %Us 20 max %Us 55 of 50/60Hz coil powered at 60Hz pick-up Min %Us 85 max %Us 110 drop-out 10 Min %Us 85 max %Us 110				-		
EMC compatibility yes AC coil operating Rated AC voltage at 50/60Hz M 110 AC operating voltage of 50/60Hz coil powered at 50Hz pick-up Min %Us 80 max %Us 110 drop-out Min %Us 20 max %Us 55 of 50/60Hz coil powered at 60Hz pick-up Min %Us 85 max %Us 110 drop-out	Mirror contats accordir	ng to IEC/EN 609474-4-1		- ,		
AC coil operating Rated AC voltage at 50/60Hz V 110 AC operating voltage of 50/60Hz coil powered at 50Hz pick-up Min %Us 80 max %Us 110 drop-out Min %Us 20 max %Us 55 of 50/60Hz coil powered at 60Hz pick-up Min %Us 85 max %Us 110 drop-out						
Rated AC voltage at 50/60Hz         V         110           AC operating voltage         of 50/60Hz coil powered at 50Hz pick-up         min         %Us         80 max           min         %Us         110         110         110           drop-out         min         %Us         20 max         %Us         55           of 50/60Hz coil powered at 60Hz pick-up         min         %Us         55         55           of 50/60Hz coil powered at 60Hz pick-up         min         %Us         85 max         %Us         110           drop-out         min         %Us         85 max         %Us         110					<b>y</b>	
AC operating voltage of 50/60Hz coil powered at 50Hz pick-up drop-out <u>min</u> %Us 80 max %Us 110 <u>min</u> %Us 20 max %Us 55 of 50/60Hz coil powered at 60Hz pick-up <u>min</u> %Us 85 max %Us 110 drop-out		0/60Hz		V	110	
of 50/60Hz coil powered at 50Hz pick-up drop-out <u>min</u> %Us 80 max %Us 110 <u>min</u> %Us 20 max %Us 55 of 50/60Hz coil powered at 60Hz pick-up <u>min</u> %Us 85 max %Us 110 drop-out	AC operating voltage					
pick-up min %Us 80 max %Us 110 drop-out min %Us 20 max %Us 55 of 50/60Hz coil powered at 60Hz pick-up min %Us 85 max %Us 110 drop-out		of 50/60Hz coil powered at 50Hz				
min       %Us       80         max       %Us       110         drop-out       min       %Us       20         max       %Us       55         of 50/60Hz coil powered at 60Hz       state       state         pick-up       min       %Us       85         max       %Us       110         drop-out       min       %Us       85         max       %Us       110         drop-out       min       %Us       110						
drop-out       max       %Us       110         min       %Us       20         max       %Us       55         of 50/60Hz coil powered at 60Hz		· ·	min	%Us	80	
drop-out min %Us 20 max %Us 55 of 50/60Hz coil powered at 60Hz pick-up min %Us 85 max %Us 110 drop-out						
min %Us 20 max %Us 55 of 50/60Hz coil powered at 60Hz pick-up min %Us 85 max %Us 110 drop-out		drop-out				
of 50/60Hz coil powered at 60Hz pick-up min %Us 85 max %Us 110 drop-out			min	%Us	20	
pick-up min %Us 85 max %Us 110 drop-out			max	%Us	55	
pick-up min %Us 85 max %Us 110 drop-out		of 50/60Hz coil powered at 60Hz				
max %Us 110 drop-out						
drop-out			min	%Us	85	
·			max	%Us	110	
min %Us 20		drop-out				
			min	%Us	20	

BF3800A110



BF3800A110 THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 38A, AC COIL 50/60HZ,

110VAC

		max	%Us	55
AC average coil consu	mption at 20°C			
	of 50/60Hz coil powered at 50Hz			
		in-rush	VA	75
		holding	VA	9
	of 50/60Hz coil powered at 60Hz			
		in-rush	VA	70
		holding	VA	6.5
	of 60Hz coil powered at 60Hz	in ruch	١/٨	75
		in-rush holding	VA VA	75 9
Dissipation at holding	<20°C 50H-	noiding	W	2.5
Max cycles frequency			VV	2.0
Mechanical operation			cycles/h	3600
Operating times			Cycles/II	3000
Average time for Us co	ontrol			
riverage and for de de	in AC			
	Closing NO			
		min	ms	8
		max	ms	24
	Opening NO			
	·	min	ms	5
		max	ms	15
	Closing NC			
		min	ms	9
		max	ms	20
	Opening NC			
		min	ms	9
UL technical data		max	ms	17
	for three-phase AC motor			
	tor three-phase AC motor	at 480V	А	40
		at 600V	A	32
Yielded mechanical pe	rformance			02
· · · · · · · · · · · · · · · · · · ·	for single-phase AC motor			
		110/120V	HP	3
		230V	HP	7.5
	for three-phase AC motor			
		200/208V	HP	10
		220/230V	HP	15
		460/480V	HP	30
		575/600V	HP	30
General USE	_			
	Contactor			
Object also it is the	(upp. 000)/	AC current	A	55
Short-circuit protection				
	High fault	Short circuit current	L۸	100
		Short circuit current Fuse rating	kA A	100 100
		Fuse class	А	J
	Standard fault	1 030 01033		5
		Short circuit current	kA	5
		Fuse rating	A	150
Ambient conditions				

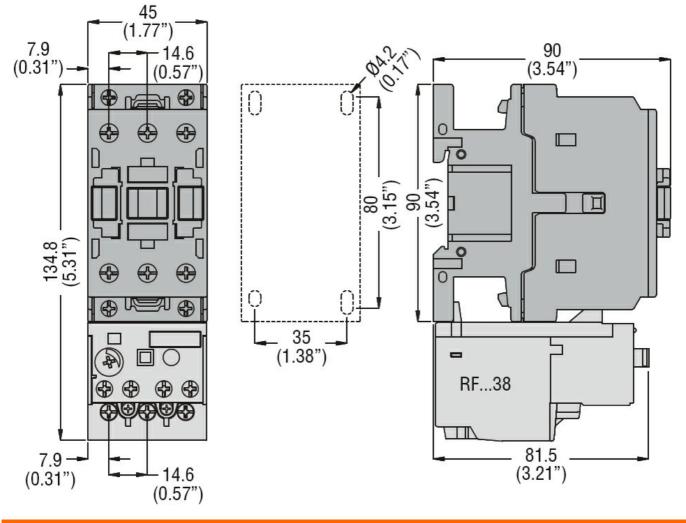
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## Temperature

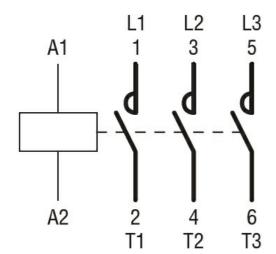
Operating temperature			
	min	°C	-50
	max	°C	70
Storage temperature			
	min	°C	-60
	max	°C	80
Max altitude		m	3000
Resistance & Protection			
Pollution degree			3
Dimensions			



Wiring diagrams



**BF3800A110** THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 38A, AC COIL 50/60HZ, 110VAC



## Certifications and compliance

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Compliance	
	CSA C22.2 n° 60947-1
	CSA C22.2 n° 60947-4-1
	IEC/EN/BS 60947-1
	IEC/EN/BS 60947-4-1
	UL 60947-1
	UL 60947-4-1
Certificates	
	CCC
	cULus
	EAC
ETIM classification	

**ETIM 8.0** 

EC000066 -Power contactor, AC switching