



Product designation			Power contactor
Product type designation			BF18
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		Α	32
Operational current le			
	AC-1 (≤40°C)	A	32
	AC-1 (≤55°C)	A	26
	AC-1 (≤70°C)	A	23
	AC-3 (≤440V ≤55°C)	A	18
	AC-4 (400V)	Α	8.5
Rated operational power AC-3 (T≤55°C)			
	230V	kW	4
	400V	kW	7.5
	415V	kW	9
	440V	kW	9
	500V	kW	10
	690V	kW	10
Rated operational power AC-1 (T≤40°C)	000)/	/	40
	230V	kW	12
	400V	kW	21
	500V	kW	26
IFO many summer the important to the L/D < the summer that a share in series	690V	kW	36
IEC max current le in DC1 with $L/R \le 1$ ms with 1 poles in series	-0.01	•	47
	≤24V	A	17
	48V	A	15
	75V	A	15 6
	110V 220V	A	
IEC max current le in DC1 with $L/R \le 1$ ms with 2 poles in series	220 V	A	_
The content is in DCT with $L/R \leq 100$ with 2 poles in series	<041/	۸	20
	≤24V 48V	A	20 20
	48 V 75 V	A	20 20
	110V	A A	13
	220V	A	1
IEC max current le in DC1 with $L/R \le 1$ ms with 3 poles in series	2200	A	I
	≤24V	۸	2 2
	≤24∨ 48V	A	22 22
	48 V 75 V	A	22 20
	75V 110V	A	
	TIUV	A	16



	220V	А	11	
EC max current le in DC1 with $L/R \le 1$ ms with 4 poles in series				
	≤24V	А	22	
	48V	А	22	
	75V	А	20	
	110V	А	18	
	220V	A	13	
IEC max current le in DC3-DC5 with $L/R \le 15$ ms with 1 poles in series				
	≤24V	A	12	
	48V	A	11	
	75V	A	11	
	110V	A	2	
	220V	A	_	
IEC max current le in DC3-DC5 with L/R \leq 15ms with 2 poles in series	(0.4) /			
	≤24V	A	15	
	48V	A	13	
	75V	A	13	
	110V	A	8	
	220V	A	2	
IEC max current le in DC3-DC5 with L/R \leq 15ms with 3 poles in series			4.0	
	≤24V	A	18	
	48V	A	18	
	75V	A	16	
	110V	A	12	
	220V	A	6	
IEC max current le in DC3-DC5 with $L/R \le 15$ ms with 4 poles in series	<0.4)/	۸	4.0	
	≤24V	A	18	
	48V	A	18	
	75V 110V	A	16	
	220V	A	13 8	
Short-time allowable current for 10s (IEC/EN60947-1)	2200	A A	200	
Protection fuse		A	200	
Frotection fuse		А	32	
	gG (IEC) aM (IEC)	A	32 20	
Making capacity (RMS value)		A	180	
Breaking capacity at voltage		A	100	
Dieaking capacity at voltage	440V	۸	144	
	440V 500V	A A	144	
	690V	A	94	
Resistance per pole (average value)	030 V	mΩ	2.5	
Power dissipation per pole (average value)		11152	2.0	
i over assipation per pole (average value)	lth	W	2.6	
	AC3	W	2.0 0.8	
Tightening torque for terminals	703	vv	0.0	
	min	Nm	1.5	
	max	Nm	1.8	
	min	Ibin	1.0	
	max	Ibin	16	
Tightening torque for coil terminal	Παλ		10	
	min	Nm	0.8	
		Nm	0.8 1	
	max min	Ibin	۱ 0.8	
	[1]]]		0.0	



		max	Ibin	0.74
	simultaneously connectable		Nr.	2
Conductor section				
	AWG/Kcmil	may		10
	Elevible w/e lug conductor postion	max		10
	Flexible w/o lug conductor section	min	mm²	1
		max	mm²	6
	Flexible c/w lug conductor section	max		0
		min	mm²	1
		max	mm²	4
	Flexible with insulated spade lug conductor section	max		
		min	mm²	1
		max	mm²	4
		max		IP20 when
Power terminal prote	ction according to IEC/EN 60529			properly wired
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN ra
Fixing				35mm
Weight			g	368
Conductor section				
	AWG/kcmil conductor section			
		max		10
Auxiliary contact char	acteristics			
Thermal current Ith			Α	10
IEC/EN 60947-5-1 de				A600 - P600
Operating current AC	15			
		230V	Α	3
		400V	А	1.9
		500V	А	1.4
Operating current DC	:12			
		110V	А	5.7
Operating current DC Operating current DC		110V	А	5.7
		24V	А	5.7
		24V 48V	A A	5.7 2.9
		24V 48V 60V	A A A	5.7 2.9 2.3
		24V 48V 60V 110V	A A A A	5.7 2.9 2.3 1.25
		24V 48V 60V 110V 125V	A A A A	5.7 2.9 2.3 1.25 1.1
		24V 48V 60V 110V 125V 220V	A A A A A	5.7 2.9 2.3 1.25 1.1 0.55
Operating current DC		24V 48V 60V 110V 125V	A A A A	5.7 2.9 2.3 1.25 1.1
Operating current DC		24V 48V 60V 110V 125V 220V	A A A A A A	5.7 2.9 2.3 1.25 1.1 0.55 0.2
Operating current DC Operations Mechanical life		24V 48V 60V 110V 125V 220V	A A A A A A cycles	5.7 2.9 2.3 1.25 1.1 0.55 0.2 20000000
Operating current DC Operations Mechanical life Electrical life		24V 48V 60V 110V 125V 220V	A A A A A A	5.7 2.9 2.3 1.25 1.1 0.55 0.2
Operating current DC Operations Mechanical life Electrical life Safety related data	213	24V 48V 60V 110V 125V 220V	A A A A A A cycles	5.7 2.9 2.3 1.25 1.1 0.55 0.2 20000000
Operating current DC Operations Mechanical life Electrical life Safety related data		24V 48V 60V 110V 125V 220V 600V	A A A A A A Cycles cycles	5.7 2.9 2.3 1.25 1.1 0.55 0.2 20000000 1600000
Operating current DC Operations Mechanical life Electrical life Safety related data	213	24V 48V 60V 110V 125V 220V	A A A A A A cycles	5.7 2.9 2.3 1.25 1.1 0.55 0.2 20000000 1600000
Operating current DC Operations Mechanical life Electrical life Safety related data Performance level B ²	10d according to EN/ISO 13489-1	24V 48V 60V 110V 125V 220V 600V	A A A A A A Cycles cycles	5.7 2.9 2.3 1.25 1.1 0.55 0.2 20000000 1600000
Operating current DC Operations Mechanical life Electrical life Safety related data Performance level B ²	10d according to EN/ISO 13489-1	24V 48V 60V 110V 125V 220V 600V	A A A A A A Cycles cycles	5.7 2.9 2.3 1.25 1.1 0.55 0.2 20000000 1600000

BF1801A400



SCHÜTZ BF1801A, 3P+1Ö, 18A AC3, 400V 50/60HZ

alou / lo rellage a	t 50/60Hz		V	400
C operating voltag	e			
	of 50/60Hz coil powered at 50H	łz		
	pick-up)		
		min	%Us	80
		max	%Us	110
	drop-o			
		min	%Us	20
		max	%Us	55
	of 50/60Hz coil powered at 60H			
	pick-up			
		min	%Us	85
		max	%Us	110
	drop-o			
		min	%Us	20
		max	%Us	55
C average coil cor	nsumption at 20°C			
	of 50/60Hz coil powered at 50H			
		in-rush	VA	75
		holding	VA	9
	of 50/60Hz coil powered at 60H			
		in-rush	VA	70
		holding	VA	6.5
	of 60Hz coil powered at 60Hz			
		in-rush	VA	75
		holding	VA	9
Dissipation at holdir			W	2.5
A				
lax cycles frequen				
lechanical operation			cycles/h	3600
Nechanical operatic Operating times	n		cycles/h	3600
Nechanical operatic	n s control		cycles/h	3600
Nechanical operatic Operating times	n		cycles/h	3600
lechanical operatic	n s control		cycles/h	
Nechanical operatic Operating times	n s control in AC	g NO min	cycles/h	8
Nechanical operatic Operating times	n control in AC Closin	min max		
Nechanical operatic Operating times	n s control in AC	min max	ms	8 24
lechanical operatic	n control in AC Closin	min max	ms	8 24 10
Nechanical operatic Operating times	n control in AC Closin Openir	min max ng NO min max	ms ms	8 24
Nechanical operatic Operating times	n control in AC Closin	min max ng NO min max g NC	ms ms ms	8 24 10 20
Nechanical operatic Operating times	n control in AC Closin Openir	min max ng NO min max	ms ms ms	8 24 10 20 14
Nechanical operatic	n control in AC Closin Openir Closin	min max ng NO min max g NC min max	ms ms ms ms	8 24 10 20
	n control in AC Closin Openir	min max ng NO min max g NC min max ng NC	ms ms ms ms ms	8 24 10 20 14 28
Nechanical operatic	n control in AC Closin Openir Closin	min max ng NO min max g NC min max	ms ms ms ms ms	8 24 10 20 14 28 7
lechanical operation operating times overage time for Us	n control in AC Closin Openir Closin	min max ng NO min max g NC min max ng NC	ms ms ms ms ms	8 24 10 20 14 28
Vechanical operation Operating times Average time for Us	n control in AC Closin Openir Closin Openir	min max ng NO min max g NC min max ng NC min	ms ms ms ms ms ms	8 24 10 20 14 28 7
Aechanical operation Operating times Average time for Us	n control in AC Closin Openir Closin	min max g NO g NC min max ng NC min max	ms ms ms ms ms ms	8 24 10 20 14 28 7 18
Vechanical operation Operating times Average time for Us	n control in AC Closin Openir Closin Openir	ng NO min max g NC mg NC min max ng NC min max at 480V	ms ms ms ms ms ms ms	8 24 10 20 14 28 7 18
Aechanical operation Operating times Average time for Us Verage time for Us VL technical data Full-load current (Fl	n control in AC Closin Openir Closin Openir	min max g NO g NC min max ng NC min max	ms ms ms ms ms ms ms	8 24 10 20 14 28 7 18
Aechanical operation Operating times Average time for Us	n control in AC Closin Openir Closin Openir	ng NO min max g NC mg NC min max ng NC min max at 480V	ms ms ms ms ms ms ms	8 24 10 20 14 28 7 18
Aechanical operation Operating times Average time for Us Verage time for Us JL technical data Full-load current (Fl	n control in AC Closin Openir Closin Openir	ng NO min max g NC mg NC min max ng NC min max at 480V	ms ms ms ms ms ms ms	8 24 10 20 14 28 7 18
Aechanical operation Operating times Average time for Us Verage time for Us VL technical data Full-load current (Fl	n control in AC Closin Openir Closin Closin Denir	ng NO min max g NC mg NC min max ng NC min max at 480V	ms ms ms ms ms ms ms	8 24 10 20 14 28 7 18
Aechanical operation Operating times Average time for Us Verage time for Us VL technical data Full-load current (Fl	n control in AC Closin Openir Closin Closin Denir	min max g NO g NC min max ng NC min max at 480V at 600V	ms ms ms ms ms ms ms	8 24 10 20 14 28 7 18 14 17
lechanical operatio perating times verage time for Us <u>L technical data</u> ull-load current (Fl	n control in AC Closin Openir Closin Closin Denir	min max ng NO min max ng NC min max max min max at 480V at 600V	ms ms ms ms ms ms A A	8 24 10 20 14 28 7 18 14 17 1

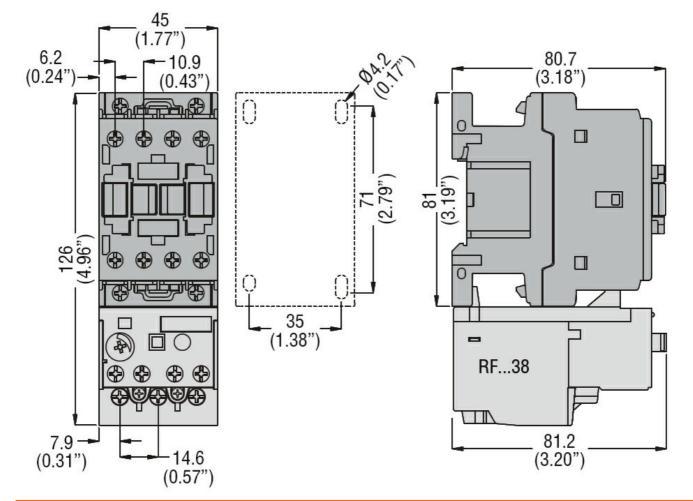
BF1801A400

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

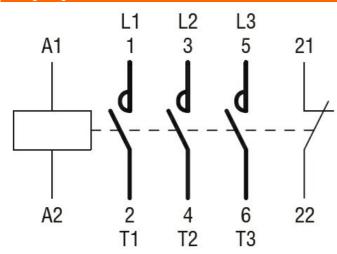


		220/230V	HP	5
		460/480V	HP	10
		575/600V	HP	15
General USE				
	Contactor			
		AC current	А	32
	Auxiliary contacts			
		AC voltage	V	600
		AC current	А	10
		DC voltage	V	250
		DC current	А	1
Short-circuit protection	on fuse, 600V			
	High fault			
		Short circuit current	kA	100
		Fuse rating	А	60
		Fuse class		J
	Standard fault			
		Short circuit current	kA	5
		Fuse rating	А	80
Contact rating of aux Ambient conditions	iliary contacts according to UL			A600 - P600
Temperature				
	Operating temperature			
		min	°C	-50
		max	°C	70
	Storage temperature	max	°C	70
	Storage temperature	max min	⊃° ⊃°	-60
	Storage temperature			
Max altitude	Storage temperature	min	°C	-60
Max altitude Resistance & Protec		min	°C ℃	-60 80
		min	°C ℃	-60 80





Wiring diagrams



Certifications and compliance

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	
sification		

ETIM 8.0

ETIM clas

EC000066 -Power contactor, AC switching