



Product designation Product type designation			Power contactor BF18
Contact characteristics			DI 10
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)	А	26
	AC-1 (≤70°C)	А	23
	AC-3 (≤440V ≤55°C)	А	18
	AC-4 (400V)	А	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)			
	230V	kW	12
	400V	kW	21
	500V	kW	26
	690V	kW	36
IEC max current le in DC1 with $L/R \le 1$ ms with 1 poles in series			
	≤24V	А	17
	48V	А	15
	75V	А	15
	110V	А	6
	220V	Α	_
IEC max current le in DC1 with $L/R \le 1$ ms with 2 poles in series			
	≤24V	А	20
	48V	А	20
	75V	А	20
	110V	А	13
	220V	A	1
IEC max current le in DC1 with $L/R \le 1$ ms with 3 poles in series			
	≤24V	А	22
	48V	А	22
	75V	А	20
	110V	А	16



	220V	А	11
IEC max current le in DC1 with L/R $\leq$ 1ms with 4 poles in series			
	≤24V	А	22
	48V	А	22
	75V	А	20
	110V	А	18
	220V	Α	13
EC max current le in DC3-DC5 with $L/R \le 15$ ms with 1 poles in series			
	≤24V	А	12
	48V	Α	11
	75V	А	11
	110V	А	2
	220V	А	_
EC max current le in DC3-DC5 with $L/R \le 15$ ms with 2 poles in series			
	≤24V	А	15
	48V	А	13
	75V	А	13
	110V	А	8
	220V	А	2
IEC max current le in DC3-DC5 with L/R $\leq$ 15ms with 3 poles in series			
	≤24V	А	18
	48V	А	18
	75V	А	16
	110V	A	12
	220V	A	6
IEC max current le in DC3-DC5 with L/R $\leq$ 15ms with 4 poles in series			•
	≤24V	А	18
	48V	A	18
	75V	A	16
	110V	A	13
	220V	A	8
Short-time allowable current for 10s (IEC/EN60947-1)	2201	A	200
Protection fuse		Λ	200
	gG (IEC)	А	32
			20
Making consolity (DMC yellus)	aM (IEC)	A	
Making capacity (RMS value)		A	180
Breaking capacity at voltage		•	
	440V	A	144
	500V	A	120
	690V	A	94
Resistance per pole (average value)		mΩ	2.5
Power dissipation per pole (average value)			
	Ith	W	2.6
	AC-3	W	0.8
Tightening torque for terminals			
	min	Nm	1.5
	max	Nm	1.8
	min	lbin	1.1
	max	lbin	1.5
Tightening torque for coil terminal		Ibin	1.5
Tightening torque for coil terminal		lbin Nm	0.8
Tightening torque for coil terminal	max		



Mox pumber -f		max	Ibin	0.74
	simultaneously connectable		Nr.	2
Conductor section				
	AWG/Kcmil	may		10
	Flexible w/o lug conductor section	max		10
	Flexible w/o lug conductor section	min	mm²	1
		max	mm²	6
	Flexible c/w lug conductor section	max	111111	0
	Therefore Criwing conductor section	min	mm²	1
		max	mm²	4
	Flexible with insulated spade lug conductor section	Пах		<b>T</b>
		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	364
Conductor section				
	AWG/kcmil conductor section			
		max		10
Auxiliary contact char	acteristics			
Thermal current Ith			A	10
IEC/EN 60947-5-1 de				A600 - P600
Operating current AC	15			
		230V	A	3
		400V	Α	1.9
		500V	A	1.4
Operating current DC	12			
		110V	Α	5.7
• • •				
Operating current DC	13		-	
Operating current DC	13	24V	A	5.7
Operating current DC		48V	А	2.9
Operating current DC		48V 60V	A A	2.9 2.3
Operating current DC		48V 60V 110V	A A A	2.9 2.3 1.25
Operating current DC		48V 60V 110V 125V	A A A A	2.9 2.3 1.25 1.1
Operating current DC		48V 60V 110V 125V 220V	A A A A	2.9 2.3 1.25 1.1 0.55
	13	48V 60V 110V 125V	A A A A	2.9 2.3 1.25 1.1
Operations	13	48V 60V 110V 125V 220V	A A A A A	2.9 2.3 1.25 1.1 0.55 0.2
Operations Mechanical life	13	48V 60V 110V 125V 220V	A A A A A Cycles	2.9 2.3 1.25 1.1 0.55 0.2 20000000
Operations Mechanical life Electrical life	-13	48V 60V 110V 125V 220V	A A A A A	2.9 2.3 1.25 1.1 0.55 0.2
Operations Mechanical life Electrical life Safety related data		48V 60V 110V 125V 220V	A A A A A Cycles	2.9 2.3 1.25 1.1 0.55 0.2 20000000
Operations Mechanical life Electrical life Safety related data	10d according to EN/ISO 13489-1	48V 60V 110V 125V 220V 600V	A A A A A cycles cycles	2.9 2.3 1.25 1.1 0.55 0.2 20000000 1600000
Operations Mechanical life Electrical life Safety related data	10d according to EN/ISO 13489-1	48V 60V 110V 125V 220V 600V	A A A A A cycles cycles	2.9 2.3 1.25 1.1 0.55 0.2 20000000 1600000
Operations Mechanical life Electrical life Safety related data Performance level B <sup>2</sup>	10d according to EN/ISO 13489-1	48V 60V 110V 125V 220V 600V	A A A A A cycles cycles	2.9 2.3 1.25 1.1 0.55 0.2 20000000 1600000 1600000 20000000
Operations Mechanical life Electrical life Safety related data Performance level B <sup>2</sup>	10d according to EN/ISO 13489-1	48V 60V 110V 125V 220V 600V	A A A A A cycles cycles	2.9 2.3 1.25 1.1 0.55 0.2 20000000 1600000

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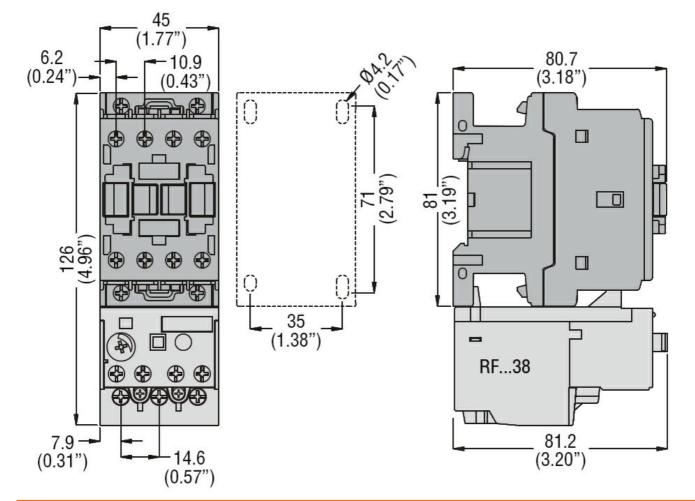
SCHÜTZ BF1810A, 3P+1S, 18A AC3, 24V 50/60HZ

Rated AC voltage at			V	24
C operating voltage				
	of 50/60Hz coil powered at 50Hz			
	pick-up			
		min	%Us	80
	daan aut	max	%Us	110
	drop-out	min	0/110	20
		min max	%Us %Us	20 55
	of 50/60Hz coil powered at 60Hz	IIIdX	%05	55
	pick-up			
	ριοίζαρ	min	%Us	85
		max	%Us	110
	drop-out		,	
		min	%Us	20
		max	%Us	55
AC average coil cons	sumption 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-rush	VA	75
		holding	VA	9
Dissipation at holding			W	2.5
Max cycles frequenc				0000
Mechanical operation			cycles/h	3600
Operating times Average time for Us	control			
Average lime for US	in AC			
	Closing NO			
		min	ms	8
		max	ms	24
	Opening NO			
	1 5	min	ms	10
		max	ms	20
	Closing NC			
	-	min	ms	14
		max	ms	28
	Opening NC			
		min	ms	7
		max	ms	18
JL technical data				
-ull-load current (FL/	A) for three-phase AC motor			
		at 480V	A	14
lialdad maabaalaala	arformanaa	at 600V	A	17
rielded mechanical p				
	for single-phase AC motor	440/4001/	HP	1
		110/120V	пΡ	1
	for three-phase AC motor	230V	HP	3
	for three-phase AC motor			

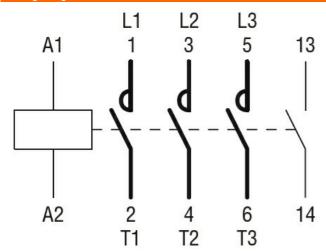


		220/230V	HP	5
		460/480V	HP	10
		575/600V	HP	15
General USE				
	Contactor			
		AC current	А	32
	Auxiliary contacts			
		AC voltage	V	600
		AC current	А	10
		DC voltage	V	250
		DC current	А	1
Short-circuit protect	ction fuse, 600V			
	High fault			
		Short circuit current	kA	100
		Fuse rating	А	60
		Fuse class		J
	Standard fault			
		Short circuit current	kA	5
		Fuse rating	А	80
Contact rating of au	uxiliary contacts according to UL			A600 - P600
Ambient conditions	3			
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
Dimensions				





Wiring diagrams



## Certifications and compliance

Complianc	9	
	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	
BF1810A024	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	6 / 7



CULus EAC ETIM classification

ETIM 8.0

EC000066 -Power contactor, AC switching