



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		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	А	_
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	А	1
IEC max current le in DC1 with $L/R \le 1$ ms with 3 poles in series			
	≤24V	А	22
	48V	A	22
	75V	A	20
	110V	A	16

BF1801A230



Three-pole contactor, IEC operating current le (AC3) = 18A, AC coil 50/60Hz, 230VAC, 1NC auxiliary contact

	220V	А	11	
IEC 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	А	13	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series				
	≤24V	А	12	
	48V	A	11	
	75V	A	11	
	110V	A	2	
	220V	A	-	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series	220 V	Λ		
TEC max current le in DC5-DC5 with L/R ≤ 15ms with 2 poles in series	<241	٨	15	
	≤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				
	≤24V	А	18	
	48V	А	18	
	75V	А	16	
	110V	А	12	
	220V	А	6	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series				
	≤24V	А	18	
	48V	А	18	
	75V	А	16	
	110V	А	13	
	220V	А	8	
Short-time allowable current for 10s (IEC/EN60947-1)		А	200	
Protection fuse				
	gG (IEC)	А	32	
	aM (IEC)	A	20	
Making capacity (RMS value)		A	180	
		A	160	
Breaking capacity at voltage		۸		
	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	
	AC3	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	max			
	min	Nm	0.8	
	max	Nm	0.8 1	
		lbin		
	min		0.8	



BF1801A230 Three-pole contactor, IEC operating current le (AC3) = 18A, AC coil 50/60Hz, 230VAC, 1NC auxiliary contact

Max number of wires	simultaneously connectable	max	lbin Nr.	0.74
Conductor section	simultaneously connectable		INF.	2
	AWG/Kcmil			
	AWO/Kimi	max		10
	Flexible w/o lug conductor section	тах		10
		min	mm²	1
		max	mm²	6
	Flexible c/w lug conductor section			
		min	mm²	1
		max	mm²	4
	Flexible with insulated spade lug conductor section	n		
		min	mm²	1
		max	mm²	4
	ction according to IEC/EN 60529			IP20 when wired
Mechanical features				
Operating position				Verticalist
		normal		Vertical plan ±30°
		allowable		±30 [°] Screw / DIN rail
Fixing				35mm
Weight			g	358
Conductor section				
	AWG/kcmil conductor section			
		max		10
Auxiliary contact char	acteristics			
Thermal current Ith			А	10
IEC/EN 60947-5-1 de	esignation			A600 - P600
Operating current AC	15			
		230V	А	3
		400V	A	1.9
		500V	A	1.4
Operating current DC	12			
		110V	A	5.7
Operating current DC	13	0.417	•	
		24V	A	5.7
		48V 60V	A	2.9
		110V	A A	2.3 1.25
		125V	A	1.25
		125V 220V	A	0.55
		600V	A	0.2
Operations		0007	<i>·</i> ··	
Mechanical life			cycles	20000000
Electrical life			cycles	1600000
Safety related data				
	10d according to EN/ISO 13489-1			
	-	rated load	cycles	1600000
		mechanical load	cycles	20000000
Mirror contats accord	ing to IEC/EN 609474-4-1			yes
				VOS
EMC compatibility				yes
EMC compatibility AC coil operating Rated AC voltage at {			V	230

BF1801A230



-

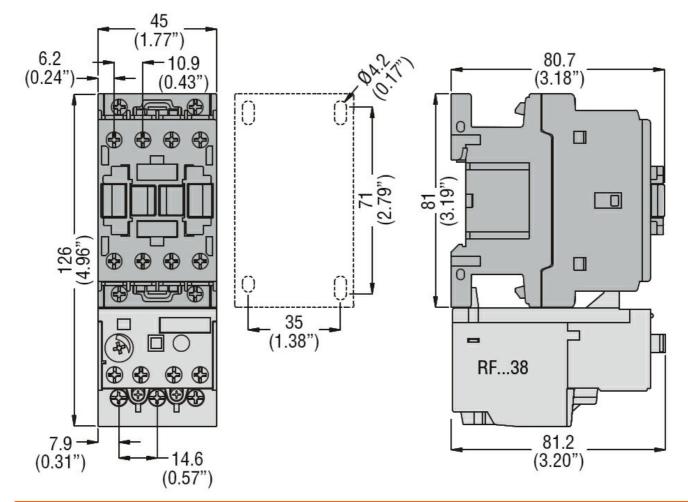


Three-pole contactor, IEC operating current le (AC3) = 18A, AC coil 50/60Hz, 230VAC, 1NC auxiliary contact

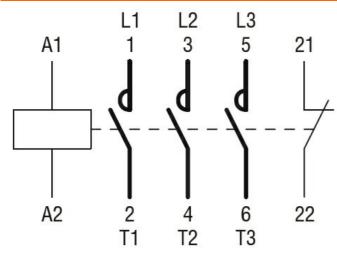
		460/480V	HP	10
		575/600V	HP	15
General USE				
	Contactor			
		AC current	А	32
	Auxiliary contacts			
		AC voltage	V	600
		AC current	А	10
		DC voltage	V	250
		DC current	А	1
Short-circuit prote	ction fuse, 600V			
	High fault			
	-	Short circuit current	kA	100
		Fuse rating	А	60
		Fuse class		J
	Standard fault			
		Short circuit current	kA	5
		Fuse rating	А	80
Contact rating of a	uxiliary contacts according to UL			A600 - P600
Ambient condition	S			
Temperature				
	Operating temperature			
		min	°C	-50
		max	°C	70
	Storage temperature			
		min	°C	-60
		max	°C	80
Max altitude			m	3000
Resistance & Prot	tection			
Pollution degree				3
Dimensions				

BF1801A230 Three-pole contactor, IEC operating current le (AC3) = 18A, AC coil 50/60Hz, 230VAC, 1NC auxiliary contact





Wiring diagrams



Certifications and compliance

Compliance	
	CSA C22.2 n° 60947-1
	CSA C22.2 n° 60947-4-1
	IEC/EN 60947-1
	IEC/EN 60947-4-1
	UL 60947-1
	UL 60947-4-1
Certificates	



BF1801A230 Three-pole contactor, IEC operating current le (AC3) = 18A, AC coil 50/60Hz, 230VAC, 1NC auxiliary contact

	CCC	
	cULus	
	EAC	
classification		

ETIM 8.0

ETIN

EC000066 -Power contactor, AC switching