



Product designation			Power contactor
Product type designation			BF65
Contact characteristics			
Number of poles		Nr.	4
Rated insulation voltage Ui IEC/EN		V	1000
Rated impulse withstand voltage Uimp		kV	8
Operational frequency			0
Operational frequency	min	Hz	25
		Hz	400
IEC Conventional free air thermal current Ith	max		100
		A	100
Operational current le		•	100
	AC-1 (≤40°C)	A	100
	AC-1 (≤55°C)	A	80
	AC-1 (≤70°C)	А	70
	AC-3 (≤440V ≤55°C)	A	65
	AC-4 (400V)	A	31
Rated operational current AC-3 (T≤55°C)			
	230V	А	65
	400V	А	65
	415V	А	65
	440V	А	65
	500V	А	53
	690V	А	47
	1000V	А	25
Rated operational power AC-1 (T≤40°C)			
	230V	kW	38
	400V	kW	65
	500V	kW	82
	690V	kW	114
IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series			
	≤24V	А	50
	48V	A	50
	75V	A	50
	110V	A	8
	220V	A	_
IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series	2201		
	≤24V	А	70
	524V 48V	A	70
	48V 75V		70
		A	
	110V	A	60
	220V	A	9
IEC max current le in DC1 with $L/R \le 1$ ms with 3 poles in series			70
	≤24V	A	70
	48V	A	70
	75V	А	70



FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 100A, AC/DC COIL

**BF65T4E230** 

electric FOUR-POLE CONTACTOR, IEC OPERA	ATING CURRENT ITH (A	(C1) =	
ENERGY AND AUTOMATION			230VAC/DC
	110V	А	60
	220V	А	90
EC max current le in DC1 with $L/R \le 1$ ms with 4 poles in series			
	≤24V	А	70
	48V	А	70
	75V	А	70
	110V	А	70
	220V	А	110
EC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in serie	S		
	≤24V	А	35
	48V	А	25
	75V	А	25
	110V	А	3
	220V	А	-
EC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in serie	S		
	≤24V	А	45
	48V	А	40
	75V	А	40
	110V	А	30
	220V	А	5
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in serie	S		
	<24\/	Δ	55

	≤24V	A	45
	48V	А	40
	75V	А	40
	110V	А	30
	220V	А	5
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series			
	≤24V	А	55
	48V	А	50
	75V	А	50
	110V	А	35
	220V	А	52
IEC max current le in DC3-DC5 with $L/R \le 15$ ms with 4 poles in series			
	≤24V	А	60
	48V	А	60
	75V	А	60
	110V	А	50
	220V	А	65
Short-time allowable current for 10s (IEC/EN60947-1)		А	640
Protection fuse			
	gG (IEC)	А	125
	aM (IEC)	A	80
Making capacity (RMS value)		Α	650
Breaking capacity at voltage			
	440V	А	520
	500V	A	425
	690V	A	376
Resistance per pole (average value)		mΩ	0.8
Power dissipation per pole (average value)			0.0
	Ith	W	8
	AC-3	Ŵ	3.4
Tightening torque for terminals	//0/0	**	5.1
	min	Nm	4
	max	Nm	5
	min	Ibin	2.95
	max	Ibin	3.69
Tightening torque for coil terminal	max	10111	0.00
	min	Nm	0.8
	max	Nm	1
	Παλ	INIT	1



BF65T4E230 FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 100A, AC/DC COIL, 230VAC/DC

EC OPERATING CURRENT ITH	(AC1) = 1	00A, AC/DC COIL, 230VAC/DC
min	Ibin	0.8
max	lbin	0.74
	Nr.	2

		Пал		0.74
Max number of wires s	simultaneously connectable		Nr.	2
Conductor section				
	AWG/Kcmil			
		max		2
	Flexible w/o lug conductor section			
		min	mm²	1.5
		max	mm²	35
	Flexible c/w lug conductor section			
		min	mm²	1.5
		max	mm²	35
-	tion according to IEC/EN 60529			IP20 front
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN rail 35mm
Weight			~	1280
Conductor section			g	1200
CONDUCION SECTION	AWG/kcmil conductor section			
		max		2
Operations				۷
Mechanical life			cycles	15000000
Electrical life			cycles	1400000
Safety related data			eyelee	1100000
	0d according to EN/ISO 13489-1			
		rated load	cycles	1400000
		mechanical load	cycles	15000000
Mirror contats accordi	ng to IEC/EN 609474-4-1		,	yes
EMC compatibility	<u> </u>			yes
AC coil operating				
Rated AC voltage at 5	0/60Hz, 60Hz			
-		min	V	100
		max	V	250
AC operating voltage				
-	of 50/60Hz coil powered at 50Hz			
	pick-up			
		min	%Us	80 Us min
		max	%Us	110 Us max
	drop-out			
		max	%Us	≤70 Us min
	of 50/60Hz coil powered at 60Hz			
	pick-up			
		min	%Us	80 Us min
		max	%Us	110 Us max
	drop-out			
		max	%Us	≤70 Us min
AC average coil consu	•			
	of 50/60Hz coil powered at 50Hz			/
		in-rush	VA	35120
		holding	VA	1.53.7



FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 100A, AC/DC COIL,

**BF65T4E230** 230VAC/DC

	of 50/60Hz coil pow	vered at 60Hz	in much	١/٨	25 100
			in-rush holding	VA VA	35120 1.53.7
Dissipation at holding ≤	20°C 50H7		noiding	W	12.5
Dissipation at holding a	20 C 301 IZ			VV	12.5
DC rated control voltag	IA				
			min	V	100
			max	v	250
DC operating voltage				-	
	pick-up				
	1 - 1		min	%Us	80 Us min
			max	%Us	110 Us max
	drop-out				
	·		max	%Us	≤70 Us min
Average coil consumpt	tion ≤20°C				
			in-rush	W	2368
			holding	W	1.21,9
Max cycles frequency					
Mechanical operation				cycles/h	1500
Operating times					
Average time for Us co					
	in AC				
		Closing NO			
			min	ms	12
		<b>.</b>	max	ms	28
		Opening NO			
			min	ms	8
			max	ms	22
	in DC				
		Closing NO			40
			min	ms	40 95
			max	ms	85
		Opening NO	min	me	20
			max	ms ms	20 55
UL technical data			IIIdA	1115	55
Full-load current (FLA)	for three-phase AC	motor			
			at 480V	А	65
			at 400V	A	62
Yielded mechanical pe	rformance			,.	
	for three-phase AC	motor			
			200/208V	HP	20
			220/230V	HP	25
			460/480V	HP	50
			575/600V	HP	60
General USE			0,0001		
	Contactor				
			AC current	А	100
Short-circuit protection	fuse, 600V				
Short-circuit protection					
Short-circuit protection	fuse, 600V High fault		Short circuit current	kΔ	100
Short-circuit protection			Short circuit current Fuse rating	kA A	100 200
Short-circuit protection			Short circuit current Fuse rating Fuse class	kA A	100 200 J



FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 100A, AC/DC COIL, 230VAC/DC

**BF65T4E230** 

	Short circuit current Fuse rating	kA A	10 200
	Fuse class		RK5
Ambient conditions			
Temperature Operating temperature			
-	min max	°C ℃	-40 70
Storage temperature	min max	°C °C	-50 80
Max altitude	IIIdX	 	3000
Resistance & Protection			0000
Pollution degree			3
Dimensions			
$\begin{array}{c} \overbrace{(0,71)^{+}}\\ \hline (0,71)^{+}\\ \hline (0,71)^{+}\\ \hline (0,35)^{+}\\ \hline (0,35)^{+}\\ \hline (0,17)^{+}\\ \hline (0,17)$	136 (5.35") 125 (4.92")		
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$			

2

T1

A2

4

T2

6

Τ3

8

Τ4



## **BF65T4E230** FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 100A, AC/DC COIL, 230VAC/DC

	IEC/EN/BS 60947-1	
	IEC/EN/BS 60947-4-1	
	UL 60947-1	
	UL 60947-4-1	
Certificates		
	CCC	
	cULus	
ETIM classification		
		EC000066 -

ETIM 8.0

EC000066 -Power contactor, AC switching