



Product designation Product type designation			Power contactor BF50
Contact characteristics			
Number of poles		Nr.	3
Rated insulation voltage Ui IEC/EN		V	1000
Rated impulse withstand voltage Uimp		kV	8
Operational frequency			
	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current Ith		А	90
Operational current le			
	AC-1 (≤40°C)	А	90
	AC-1 (≤55°C)	А	75
	AC-1 (≤70°C)	А	65
	AC-3 (≤440V ≤55°C)	А	50
	AC-4 (400V)	A	28
Rated operational power AC-3 (T≤55°C)			
	230V	kW	11
	400V	kW	22
	415V	kW	22
	440V	kW	22
	500V	kW	22
	690V	kW	30
	1000V	kW	18.5
Rated operational power AC-1 (T≤40°C)	0001/		0.4
	230V	kW	34
	400V 500V	kW	59
	690V	kW kW	74 102
IEC max current le in DC1 with $L/R \le 1$ ms with 1 poles in series	090 V	ĸvv	102
The max current le in Det with End 2 mis with 1 poles in series	≤24V	А	45
	48V	A	40
	48V 75V	A	40
	110V	A	8
	220V	A	-
IEC max current le in DC1 with L/R \leq 1ms with 2 poles in series	2201		
	≤24V	А	60
	48V	A	60
	75V	A	60
	110V	A	50
	220V	A	7
IEC max current le in DC1 with $L/R \le 1$ ms with 3 poles in series			
	≤24V	А	60
	48V	А	60
	75V	А	60



BF5000A230 Three-pole contactor, IEC operating current le (AC3) = 50A, AC coil 50/60Hz, 230VAC

	110V	А	55
	220V	Α	75
IEC max current le in DC1 with $L/R \le 1$ ms with 4 poles in series			
	≤24V	А	60
	48V	А	60
	75V	A	60
	110V	A	60
	220V	A	90
IEC max current le in DC3-DC5 with L/R \leq 15ms with 1 poles in series	-0.01	•	0.0
	≤24V	A	30
	48V	A	25
	75V	A	22
	110V	A	3
IFC may aurrent to in DC2 DC5 with L/D < 15mg with 2 palas in agrice	220V	A	_
IEC max current le in DC3-DC5 with L/R \leq 15ms with 2 poles in series	<241	٨	25
	≤24V 48V	A A	35 35
	48V 75V	A	
	75V 110V	A	30 25
	220V	A	5
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series	220 V	~	5
	≤24V	А	50
	48V	A	50
	48V 75V	A	45
	110V	A	30
	220V	A	40
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series			
	≤24V	А	55
	48V	А	55
	75V	А	55
	110V	А	45
	220V	А	50
Short-time allowable current for 10s (IEC/EN60947-1)		А	400
Protection fuse			
	gG (IEC)	А	100
	aM (IEC)	А	50
Making capacity (RMS value)		А	500
Breaking capacity at voltage			
	440V	А	400
	500V	А	352
	690V	А	312
Resistance per pole (average value)		mΩ	0.8
Power dissipation per pole (average value)			
	lth	W	6.5
	AC3	W	2
Tightening torque for terminals			
	min	Nm	4
	max	Nm	5
	min	lbin	2.95
	max	lbin	3.69
Tightening torque for coil terminal		• •	
	min	Nm	0.8
	max	Nm	1



		min max	lbin Ibin	0.8 0.74
Max number of wires	simultaneously connectable	Παλ	Nr.	2
Conductor section			1.11.	L
	AWG/Kcmil			
		max		2
	Flexible w/o lug conductor section			
		min	mm²	1.5
	Flowible of the conductor continu	max	mm²	35
	Flexible c/w lug conductor section	min	mm²	1.5
		max	mm²	35
Power terminal prote	ction according to IEC/EN 60529			IP20 front
Mechanical features	Ŭ			
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN rail 35mm
Weight			g	1020
Conductor section			3	
	AWG/kcmil conductor section			
		max		2
Operations				
Mechanical life			cycles	1500000
Electrical life Safety related data			cycles	1400000
	10d according to EN/ISO 13489-1			
		rated load	cycles	1400000
		mechanical load	cycles	15000000
Mirror contats accord	ling to IEC/EN 609474-4-1			yes
EMC compatibility				yes
AC coil operating	50/001			
Rated AC voltage at AC operating voltage			V	230
AC operating voltage	of 50/60Hz coil powered at 50Hz			
	pick-up			
		min	%Us	80
		max	%Us	110
	drop-out			
		min	%Us	20
	of 50/60Uz coil powered at 60Uz	max	%Us	55
	of 50/60Hz coil powered at 60Hz pick-up			
	plot up	min	%Us	85
		max	%Us	110
	drop-out			
		min	%Us	40
		max	%Us	55
AC average coil cons				
	of 50/60Hz coil powered at 50Hz	in ruch	١/٨	210
	of 50/60Hz coil powered at 50Hz	in-rush holding	VA VA	210 15

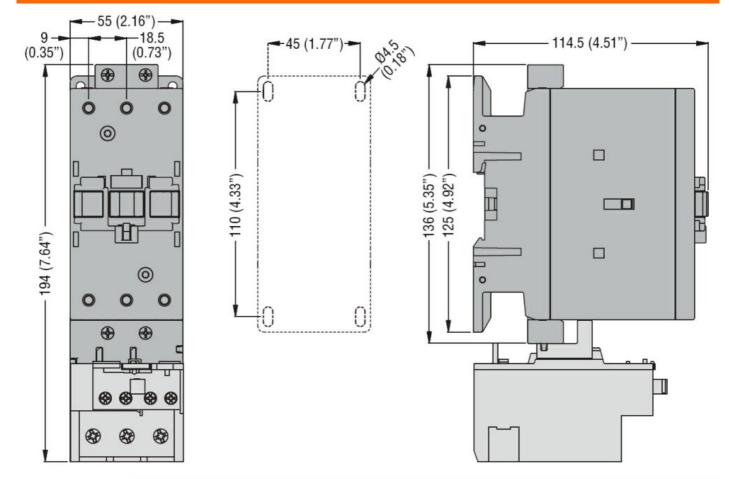


	of 50/60Hz coil powered at 60Hz			
		in-rush	VA	195
		holding	VA	13
	of 60Hz coil powered at 60Hz	lioiding	.,,	
		in-rush	VA	210
			VA VA	
Dissignation at helding		holding		15
Dissipation at holding			W	5
Max cycles frequency				
Mechanical operation			cycles/h	3600
Operating times				
Average time for Us of				
	in AC			
	Closing NO			
		min	ms	12
		max	ms	28
	Opening NO			
		min	ms	8
		max	ms	22
UL technical data				
	 for three-phase AC motor 			
		at 480V	А	52
			A	
		at 600V	A	41
Yielded mechanical p				
	for single-phase AC motor			_
		110/120V	HP	5
		230V	HP	10
	for three-phase AC motor			
		200/208V	HP	15
		220/230V	HP	20
		460/480V	HP	40
		575/600V	HP	40
General USE				
	Contactor			
	Contactor	AC current	А	90
Short-circuit protectio	n fuse 600V	Ad current	Π	50
	High fault	Short circuit current	1. 1	100
			kA	100
		Fuse rating	А	150
		Fuse class		J
	Standard fault			
		Short circuit current	kA	5
		Fuse rating	A	150
		Fuse class		RK5
Ambient conditions				
Temperature				
	Operating temperature			
		min	°C	-50
		max	°C	70
	Storage temperature		-	
		min	°C	-60
		max	°C	80
		IIIdX		
Max altituda			m	
Max altitude	ion		m	3000
Max altitude Resistance & Protect Pollution degree	ion		m	3000

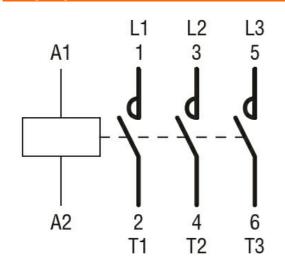
The characteristics described in this document are subject to updates or modifications at any time. The descriptions, technical and functional information, illustrations and instructions in this brochure are purely illustrative, and are consequently not contractually binding



Dimensions



Wiring diagrams



Certifications and compliance

Compliance

Certificates



CCC

	cULus	
ETIM classification		
		EC000066 -
ETIM 8.0		Power contactor,
		AC switching