



Product designation			Power contactor
Product type designation			BF94
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	115
Operational current le			
	AC-1 (≤40°C)	А	115
	AC-1 (≤55°C)	А	95
	AC-1 (≤70°C)	А	80
	AC-3 (≤440V ≤55°C)	А	95
	AC-4 (400V)	А	45
Rated operational power AC-3 (T≤55°C)			
	230V	kW	30
	400V	kW	55
	415V	kW	55
	440V	kW	55
	500V	kW	55
	690V	kW	55
	1000V	kW	37
Rated operational current AC-3 (T≤55°C)			
	230V	А	94
	400V	A	94
	415V	A	94
	440V	A	94
	500V	A	78
	690V	A	57
	1000V	A	28
IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series	10001	7.	20
	≤24V	А	77
	48V	A	66
	48V 75V	A	66
	110V	A	8
	220V	A	_
IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series	2201	~	
	<241/	۸	110
	≤24V	A	110
	48V	A	110
	75V	A	110
	110V	A	90
	220V	A	9

IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series



	≤24V	А	110	
	48V	A	110	
	75V	А	110	
	110V	A	93	
	220V	A	95	
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series	2201		00	
	≤24V	А	115	
	48V	A	115	
	48V 75V	A	115	
	110V	A	110	
	220V	A	115	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series	220 V	~	115	
	≤24V	А	45	
	48V	A	33	
	75V	A	33	
	110V	A	3	
	220V	A	_	
IEC max current le in DC3-DC5 with L/R \leq 15ms with 2 poles in series				
	≤24V	А	65	
	48V	А	55	
	75V	А	55	
	110V	А	43	
	220V	А	5	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series				
	≤24V	А	86	
	48V	А	75	
	75V	А	75	
	110V	A	64	
	220V	А	64	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series			-	
	≤24V	А	96	
	48V	A	95	
	75V	A	95	
	110V	A	80	
	220V	A	80	
Short-time allowable current for 10s (IEC/EN60947-1)	220 V	A	640	
		A	040	
Protection fuse		۸	105	
	gG (IEC)	A	125	
	aM (IEC)	A	100	
Making capacity (RMS value)		А	950	
Breaking capacity at voltage				
	440V	А	640	
	500V	А	625	
	690V	Α	456	
Resistance per pole (average value)		mΩ	0.6	
Power dissipation per pole (average value)				
	Ith	W	7.9	
	AC-3	W	5.4	
Tightening torque for terminals				
	min	Nm	4	
	max	Nm	5	
	min	Ibin	3	
	max	Ibin	3.7	
	max		0.11	



Tightening torque for coil terminal	min	Nm	0.8
	max	Nm	1
	min	Ibin	0.59
	max	Ibin	0.74
Max number of wires simultaneously connectable	тах	Nr.	2
Conductor section			L
Flexible w/o lug conductor section			
	min	mm²	1.5
	max	mm²	35
Power terminal protection according to IEC/EN 60529			IP20
Mechanical features			
Dperating position			
	normal		Vertical plan
	allowable		±30°
Fixing			Screw / DIN rai
			35mm
Weight		g	1
Operations			
Mechanical life		cycles	15000000
Electrical life		cycles	1100000
Safety related data			
Mirror contats according to IEC/EN 609474-4-1			YES
EMC compatibility			yes
AC coil operating			
Rated AC voltage at 60Hz		V	24
AC operating voltage			
of 50/60Hz coil powered at 50Hz			
drop-out			
	min	%Us	20
	max	%Us	55
of 50/60Hz coil powered at 60Hz			
pick-up		0/11-	05
	min	%Us	85
dana and	max	%Us	110
drop-out	in the	0/110	20
	min	%Us	20
	max	%Us	55
of 60Hz coil powered at 60Hz			
of 60Hz coil powered at 60Hz pick-up	min	% <u> </u>]o	80
•	min	%Us %Us	80 110
pick-up	min max	%Us %Us	80 110
•	max	%Us	110
pick-up	max	%Us %Us	110 20
pick-up drop-out	max	%Us	110
pick-up drop-out AC average coil consumption at 20°C	max	%Us %Us	110 20
pick-up	max min max	%Us %Us %Us	110 20 55
pick-up drop-out AC average coil consumption at 20°C	max min max in-rush	%Us %Us %Us VA	110 20 55 210
pick-up drop-out AC average coil consumption at 20°C of 60Hz coil powered at 60Hz	max min max	%Us %Us %Us VA VA	110 20 55 210 15
pick-up drop-out AC average coil consumption at 20°C of 60Hz coil powered at 60Hz Dissipation at holding ≤20°C 50Hz	max min max in-rush	%Us %Us %Us VA	110 20 55 210
pick-up drop-out AC average coil consumption at 20°C of 60Hz coil powered at 60Hz Dissipation at holding ≤20°C 50Hz Max cycles frequency	max min max in-rush	%Us %Us %Us VA VA VA W	110 20 55 210 15 5
pick-up drop-out AC average coil consumption at 20°C of 60Hz coil powered at 60Hz	max min max in-rush	%Us %Us %Us VA VA	110 20 55 210 15 5

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THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 94A, AC COIL 60HZ,

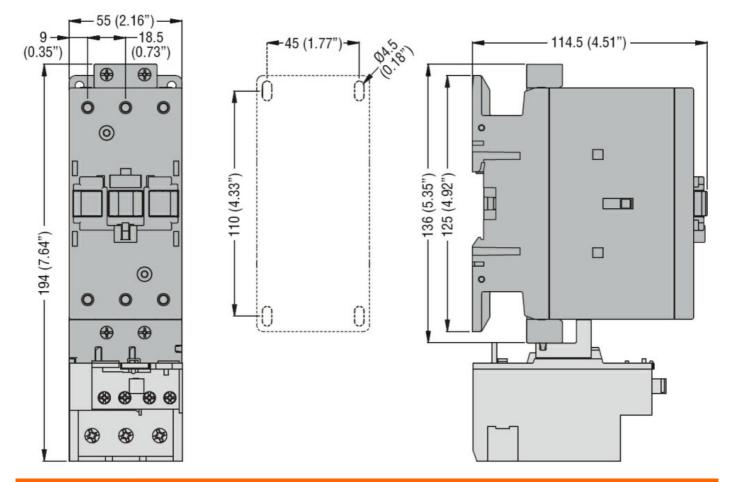
24VAC

	in AC				
		Closing NO			
			min	ms	12
			max	ms	28
		Opening NO			
			min	ms	8
			max	ms	22
	in DC				
		Closing NO			40
			min	ms ms	40 85
		Opening NO	max	ms	00
		Opening NO	min	ms	20
			max	ms	55
UL technical data					
	A) for three-phase AC m	notor			
\ \ -	, , ,		at 480V	А	77
			at 600V	А	77
Yielded mechanical p	performance				
	for three-phase AC r	motor			
			200/208V	HP	25
			220/230V	HP	30
			460/480V	HP	60
			575/600V	HP	75
General USE					
	Contactor				
			AC current	A	115
Short-circuit protection					
	High fault				100
			Short circuit current	kA	100
			Fuse rating Fuse class	A	200
	Standard fault		ruse class		J
	Stanuaru lault		Short circuit current	kA	10
			Fuse rating	A	200
			Fuse class		RK5
Ambient conditions					
Temperature					
	Operating temperatu	ıre			
			min	°C	-50
			max	°C	70
	Storage temperature)			
			min	°C	-60
			max	°C	80
Max altitude Dimensions				m	3000

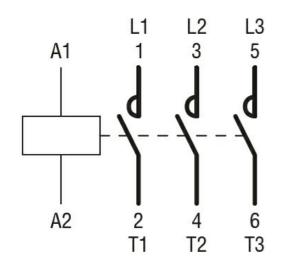
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THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 94A, AC COIL 60HZ, 24VAC



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	
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CULus EAC ETIM classification

ETIM 8.0

EC000066 -Power contactor, AC switching