BF9400A048



THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 94A, AC COIL 50/60HZ, 48VAC



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	А	94
	415V	А	94
	440V	А	94
	500V	А	78
	690V	А	57
	1000V	Α	28
IEC max current le in DC1 with $L/R \le 1$ ms with 1 poles in series			
	≤24V	А	77
	48V	А	66
	75V	А	66
	110V	А	8
	220V	Α	_
IEC max current le in DC1 with $L/R \le 1$ ms with 2 poles in series			
	≤24V	А	110
	48V	А	110
	75V	А	110
	110V	А	90
	220V	Α	9

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

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	≤24V	А	110	
	48V	A	110	
	75V	A	110	
	110V	A	93	
	220V	A	95	
IEC max current le in DC1 with $L/R \le 1$ ms with 4 poles in series		_		
	≤24V	А	115	
	48V	А	115	
	75V	Α	115	
	110V	А	110	
	220V	А	115	
IEC max current le in DC3-DC5 with L/R \leq 15ms with 1 poles in series				
'	≤24V	А	45	
	48V	A	33	
	40V 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	Α	65	
	48V	Α	55	
	75V	А	55	
	110V	А	43	
	220V	A	5	
IEC max current le in DC3-DC5 with L/R \leq 15ms with 3 poles in series	2201		•	
IEC max current le in DC3-DC3 with E/N = 15ms with 5 poles in series	<241/	^	00	
	≤24V	A	86	
	48V	Α	75	
	75V	А	75	
	110V	А	64	
	220V	A	64	
IEC max current le in DC3-DC5 with L/R \leq 15ms with 4 poles in series				
	≤24V	А	96	
	48V	А	95	
	75V	А	95	
	110V	A	80	
	220V	A	80	
Short-time allowable current for 10s (IEC/EN60947-1)	2201	A	640	
		A	640	
Protection fuse				
	gG (IEC)	A	125	
	aM (IEC)	Α	100	
Making capacity (RMS value)		А	950	
Breaking capacity at voltage				
	440V	А	640	
	500V	А	625	
	690V	A	456	
Resistance per pole (average value)		mΩ	0.6	
		11132	0.0	
Power dissipation per pole (average value)	1.1	147	7.0	
	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	

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electric	THREE-POLE CONTACTOR, IEC OPERATII	NG CURRENT IE (ACS	3) = 94A,	AC COIL 50/60HZ
ENERGY AND AUTOMATION				48VAC
Tightening torque for c	coil terminal			
		min	Nm	0.8
		max	Nm	1
		min	lbin	0.59
		max	lbin	0.74
Max number of wires s	simultaneously connectable		Nr.	2
Conductor section				
	Flexible w/o lug conductor section			
		min	mm²	1.5
		max	mm²	35
Power terminal protec	tion according to IEC/EN 60529			IP20
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
Finin e				Screw / DIN rail
Fixing				35mm
Weight			g	1
Operations				
Mechanical life			cycles	15000000
Electrical life			cycles	1100000
Safety related data				
Mirror contats according	ng to IEC/EN 609474-4-1			YES
EMC compatibility				yes
AC coil operating				
Rated AC voltage at 5	0/60Hz		V	48
AC operating voltage				
	of 50/60Hz coil powered at 50Hz			
	pick-up			
		min	%Us	80
		max	%Us	110
	drop-out			
		min	%Us	20
		max	%Us	55
	of 50/60Hz coil powered at 60Hz			
	, pick-up			
	• •	min	%Us	85
		max	%Us	110
	drop-out			
		min	%Us	20

pick-up

drop-out

of 60Hz coil powered at 60Hz

of 50/60Hz coil powered at 50Hz

of 50/60Hz coil powered at 60Hz

AC average coil consumption at 20°C

%Us

%Us

%Us

%Us

%Us

VA

VA

VA

max

min

max

min

max

in-rush

holding

in-rush

55

80

110

20

55

210

15

195

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		holding	VA	13
	of 60Hz coil powered at 60Hz			
		in-rush	VA	210
		holding	VA	15
Dissipation at holding	≤20°C 50Hz		W	5
Max cycles frequency				
Mechanical operation			cycles/h	3600
Operating times				
Average time for Us co				
	in AC			
	Closing NO			
		min	ms	12
		max	ms	28
	Opening NO			
		min	ms	8
		max	ms	22
	in DC			
	Closing NO			
		min	ms	40
		max	ms	85
	Opening NO			
		min	ms	20
		max	ms	55
UL technical data				
Full-load current (FLA)) for three-phase AC motor			
		at 480V	А	77
		at 600V	А	77
Yielded mechanical pe	erformance			
	for three-phase AC motor			
		200/208V	HP	25
		220/230V	HP	30
		460/480V	HP	60
		575/600V	HP	75
General USE				
	Contactor			
		AC current	А	115
Short-circuit protection	n fuse, 600V			
	High fault			
		Short circuit current	kA	100
		Fuse rating	А	200
		Fuse class		J
	Standard fault			
		Short circuit current	kA	10
		Fuse rating	А	200
		Fuse class		RK5
Ambient conditions				
Temperature				
	Operating temperature			
		min	°C	-50
		max	°C	70
	Storage temperature			
		min	°C	-60
		max	°C	80
Max altitude			m	3000

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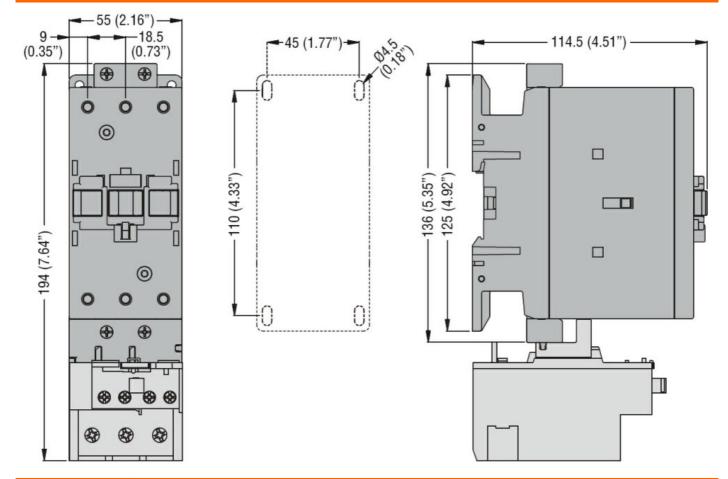
The characteristics described in this document are subject to updates or modifications at any time. The descriptions, technical and functional information, illustrations and instructions in this brochure are purely illustrative, and are consequently not contractually binding



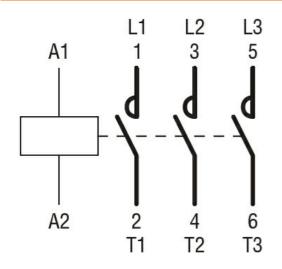


THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 94A, AC COIL 50/60HZ, 48VAC

Dimensions



Wiring diagrams



Certifications and compliance

Compliance

1100	
	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
toc	

Certificates

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	CCC
	cULus
	EAC
classification	

ETIM 8.0

ETIN

EC000066 -Power contactor, AC switching