



Product designation Power contactor Product type designation **BF94** Contact characteristics Nr. 3 Number of poles Rated insulation voltage Ui IEC/EN ٧ 1000 k۷ Rated impulse withstand voltage Uimp 8 Operational frequency Нъ 25 min Hz 400 max IEC Conventional free air thermal current Ith 115 Α Operational current le AC-1 (≤40°C) Α 115 AC-1 (≤55°C) Α 95 AC-1 (≤70°C) Α 80 AC-3 (≤440V ≤55°C) Α 95 AC-4 (400V) 45 Rated operational power AC-3 (T≤55°C) kW 30 230V 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 Α 94 400V Α 94 415V Α 94 440V Α 94 500V 78 690V 57 Α 1000V Α 28 IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series ≤24V Α 77 48V Α 66 75V Α 66 110V Α 8 220V IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series ≤24V Α 110 48V 110 75V Α 110 90 110V Α 220V 9

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



	≤24V	Α	110
	48V	Α	110
	75V	Α	110
	110V	Α	93
	220V	Α	95
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series			
	≤24V	Α	115
	48V	Α	115
	75V	Α	115
	110V	Α	110
	220V	Α	115
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series			
· ·	≤24V	Α	45
	48V	Α	33
	75V	Α	33
	110V	Α	3
	220V	Α	_
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series	2201	,,	
120 max current to in 200 200 with 2/10 = 10ms with 2 poles in series	≤24V	Α	65
	48V	A	55
	75V	A	55 55
	110V	A	43
	220V	A	5
IFC may current to in DC2 DC5 with L/D < 15 mg with 2 notes in corios	220 V	<u> </u>	<u> </u>
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series	<b>2041</b> /	^	00
	≤24V	A	86
	48V	A	75 75
	75V	A	75
	110V	A	64
150 DOS DOS 111 L/D 145 111 4 1 1 1	220V	Α	64
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series		_	
	≤24V	Α	96
	48V	Α	95
	75V	Α	95
	110V	Α	80
	220V	Α	80
Short-time allowable current for 10s (IEC/EN60947-1)		Α	640
Protection fuse			
	gG (IEC)	Α	125
	aM (IEC)	Α	100
Making capacity (RMS value)		Α	950
Breaking capacity at voltage			
	440V	Α	640
	500V	Α	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
	Παλ	.0111	J.,



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Tightening torque for coil terminal	min	Nm	0.8
	max	Nm	1
	min	lbin	0.59
	max	lbin	0.74
Max number of wires simultaneously connectable	Пих	Nr.	2
Conductor section		141.	
Flexible w/o lug conductor section			
Trovible We lag conductor coolien	min	mm²	1.5
	max	mm²	35
Power terminal protection according to IEC/EN 60529	max		IP20
Mechanical features			20
Operating position			
	normal		Vertical plan
	allowable		±30°
·			Screw / DIN rail
Fixing			35mm
Veight		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 50/60Hz, 60Hz			
	min	V	60
	max	V	110
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 consumption at 20°C			
of 50/60Hz coil powered at 50Hz			
	in-rush	VA	35120
	holding	VA	1.53.7
of 50/60Hz coil powered at 60Hz			
	in-rush	VA	35120
	holding	VA	1.53.7
Dissipation at holding ≤20°C 50Hz		W	12.5
· · · · · · · · · · · · · · · · · · ·			
DC coil operating DC rated control voltage	min	V V	60 110



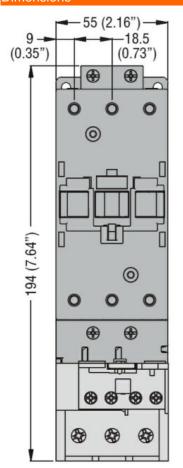
DC operating voltage				
	pick-up			
		min	%Us	80 Us min
		max	%Us	110 Us max
	drop-out			
		max	%Us	≤70 Us min
Average coil consump	tion ≤20°C			
		in-rush	W	2368
		holding	W	1.21,9
Max cycles frequency		, and the second		
Mechanical operation			cycles/h	3600
Operating times			,	
Average time for Us co	ontrol			
J	in AC			
	Closing NO			
	5.559	min	ms	12
		max	ms	28
	Opening NO	max	1113	
	Oponing NO	min	ms	8
		max	ms	22
	in DC	шах	1113	<b></b>
	Closing NO			
	Closing NO	min	mo	40
		min	ms	40
	On anima NO	max	ms	85
	Opening NO	•.		00
		min	ms	20
		max	ms	55
UL technical data				
-ull-load current (FLA)	for three-phase AC motor		_	
		at 480V	Α	77
		at 600V	Α	77
Yielded mechanical pe				
	for three-phase AC motor			
		200/208V	HP	25
		220/230V	HP	30
		460/480V	HP	60
		575/600V	HP	75
General USE		<del></del>		
	Contactor			
		AC current	Α	115
Short-circuit protection	n fuse, 600V			
•	High fault			
	<u>-</u>	Short circuit current	kA	100
		Fuse rating	Α	200
		Fuse class		J
		. 200 0.000		-
	Standard fault			
	Standard fault	Short circuit current	kΔ	10
	Standard fault	Short circuit current	kA Δ	10 200
	Standard fault	Fuse rating	kA A	200
Ambient aanditiens	Standard fault			
	Standard fault	Fuse rating		200
		Fuse rating		200
Ambient conditions Temperature	Standard fault  Operating temperature	Fuse rating Fuse class	A	200 RK5
		Fuse rating		200

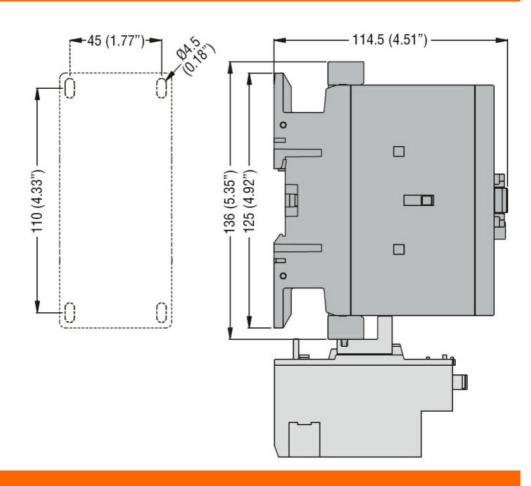


Storage temperature

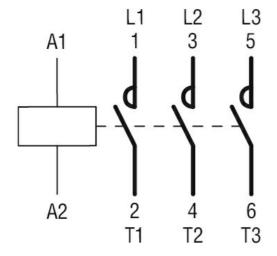
min °C -60
max °C 80
m 3000

### Max altitude Dimensions





## 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



### BF9400E110

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 94A, AC/DC COIL, 60...110VAC/DC

	UL 60947-1	
	UL 60947-4-1	
Certificates		
	CCC	
	cULus	
	EAC	
ETIMA distance Constitution		

ETIM classification

ETIM 8.0

EC000066 -Power contactor, AC switching