

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



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 Η 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

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

220V

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

	≤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			
	≤24V	Α	65
	48V	Α	55
	75V	Α	55
	110V	Α	43
	220V	Α	5
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series			
'	≤24V	Α	86
	48V	Α	75
	75V	Α	75
	110V	Α	64
	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	lbin	3.7



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Fightening 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		Nr.	2
Conductor section			
Flexible w/o lug conductor section			
	min	mm²	1.5
	max	mm²	35
Power terminal protection according to IEC/EN 60529			IP20
Mechanical features			
Operating position			
	normal		Vertical plan
	allowable		±30°
ixing			Screw / DIN rail 35mm
Veight		g	1
Derations Description			
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	48
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			
	min	%Us	85
	max	%Us	110
drop-out			
	min	%Us	20
	max	%Us	55
of 60Hz coil powered at 60Hz			
pick-up			
	min	%Us	80
	max	%Us	110
drop-out		-	
	min	%Us	20
	max	%Us	55
AC average coil consumption at 20°C		-	
of 60Hz coil powered at 60Hz			
 	in-rush	VA	210
	holding	VA	15
Dissipation at holding ≤20°C 50Hz	9	W	5
Max cycles frequency			
Taxable Control		cycles/h	3600
Mechanical operation			
Mechanical operation Operating times		Cycles/11	0000



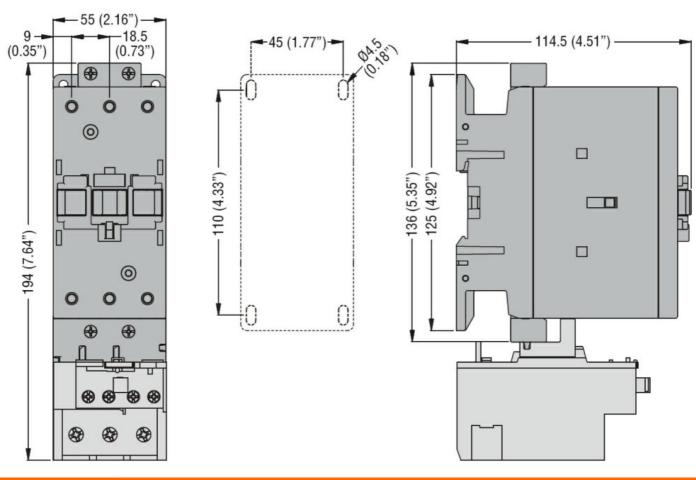


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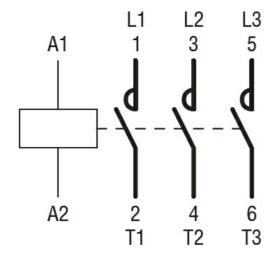
	in AC				
	11710	Closing NO			
		Ŭ	min	ms	12
			max	ms	28
		Opening NO			
			min	ms	8
			max	ms	22
	in DC				
		Closing NO			4.0
			min	ms	40
		Onanina NO	max	ms	85
		Opening NO	min	ms	20
			max	ms	55
UL technical data			IIIdA	1113	
Full-load current (FLA	() for three-phase AC	motor			
1233	,		at 480V	Α	77
			at 600V	Α	77
Yielded mechanical p	erformance				
	for three-phase AC	C motor			
			200/208V	HP	25
			220/230V	HP	30
			460/480V	HP	60
_			575/600V	HP	75
General USE					
	Contactor			_	
0	(000)/		AC current	Α	115
Short-circuit protectio					
	High fault		Short circuit current	LΔ	100
			Fuse rating	kA A	100 200
			Fuse class	A	J
	Standard fault		1 430 01433		
	Januara radic		Short circuit current	kA	10
			Fuse rating	A	200
			Fuse class		RK5
Ambient conditions					
Temperature					
	Operating tempera	ture			
			min	°C	-50
	-		max	°C	70
	Storage temperatu	ire			
			min	°C	-60
Man altitud			max	°C	80
Max altitude				m	3000
Dimensions					



ENERGY AND AUTOMATION



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

CCC



BF9400A04860

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cULus			
EAC			

ETIM classification

ETIM 8.0

EC000066 -Power contactor, AC switching