

Product designation

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



Power contactor

**BF94** 

Product type designation 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

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

IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series

110V

220V

≤24V

48V

75V

110V

220V

Α

Α

Α

Α

8

110

110

110 90

9





# THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 94A, AC COIL 50/60HZ, 110VAC

	≤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	220 V	- / \	
120 max outlette in 201 with E/N = 1m3 with 4 poles in 30103	≤24V	Α	115
	48V	A	115
	75V	A	115
	110V		
	220V	A	110
IFC may augreent to in DC2 DC5 with L/D < 15mg with 1 notes in coring	220 V	A	115
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series	<b>2041</b> /	۸	4.5
	≤24V	A	45
	48V	Α	33
	75V	Α	33
	110V	Α	3
	220V	A	
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	A	95
	110V	Α	80
	220V	A	80
Short-time allowable current for 10s (IEC/EN60947-1)	220 V		640
		^	040
Protection fuse	~C (IFO)	۸	105
	gG (IEC)	A	125
Malian agrapity (DMO yelve)	aM (IEC)	A	100
Making capacity (RMS value)		Α	950
Breaking capacity at voltage	4.401.4		0.40
	440V	A	640
	500V	Α	625
	690V	A	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

**ENERGY AND AUTOMATION** 

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

erminal			
omma	min	Nm	0.8
	max	Nm	1
	min	lbin	0.59
	max	lbin	0.74
Iltaneously connectable		Nr.	2
exible w/o lug conductor section			
-	min	mm²	1.5
	max	mm²	35
according to IEC/EN 60529			IP20
	normal		Vertical plan
	allowable		±30°
			Screw / DIN rail
			35mm
		g	1
		cycles	15000000
		cycles	1100000
o IEC/EN 609474-4-1			YES
			yes
)Hz		V	110
50/60Hz coil powered at 50Hz			
pick-up			
	min		80
	max	%Us	110
drop-out			
	min		20
	max	%Us	55
•			
pick-up	_		
			85
	max	%Us	110
drop-out		0/12	00
			20
	max	%Us	55
•			
ріск-ир	•	0/11-	0.0
			80
المناج المحملة	max	%US	110
arop-out	·•	0/11-	20
			20
tion at 20°C	max	-⁄₀US	55
tion at 20°C			
FO/60Hz apil powered at FOUL			
50/60Hz coil powered at 50Hz	! <b>!</b>	١/٨	240
50/60Hz coil powered at 50Hz	in-rush	VA	210
50/60Hz coil powered at 50Hz 50/60Hz coil powered at 60Hz	in-rush holding	VA VA	210 15
	exible w/o lug conductor section  according to IEC/EN 60529  o IEC/EN 609474-4-1  OHz  5 50/60Hz coil powered at 50Hz	iltaneously connectable exible w/o lug conductor section min max according to IEC/EN 60529  normal allowable  DIEC/EN 609474-4-1  DIEC/EN 609474-4	min Mm max Nm min lbin max lbin lbin lbin max lbin lbin max





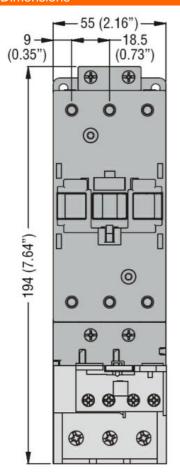
## THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 94A, AC COIL 50/60HZ,

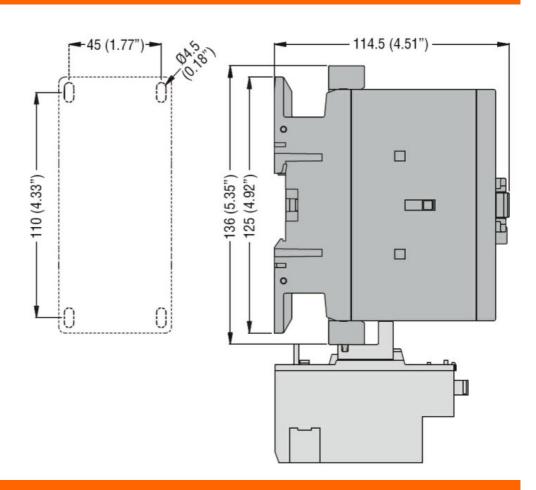
			holding	VA	13
	of 60Hz coil powered	at 60Hz	Holding	VA	10
	o. oo. := oo.: po.:o.ou		in-rush	VA	210
			holding	VA	15
Dissipation at holding	≤20°C 50Hz			W	5
Max cycles frequency					
Mechanical operation				cycles/h	3600
Operating times					
Average time for Us co					
	in AC	Clasina NO			
		Closing NO	min	ms	12
			max	ms	28
		Opening NO	max	1113	20
		oponing ito	min	ms	8
			max	ms	22
	in DC				
		Closing NO			
			min	ms	40
			max	ms	85
		Opening NO			
			min	ms	20
III. ta abula al alata			max	ms	55
UL technical data	for three phase AC ma	tor			
ruii-ioau current (FLA)	for three-phase AC mo	OLOI	at 480V	Α	77
			at 600V	A	77
Yielded mechanical pe	erformance		d: 000 v		
riolada modilambai po	for three-phase AC m	otor			
	7 oo p		200/208V	HP	25
			220/230V	HP	30
			460/480V	HP	60
			575/600V	HP	75
General USE					
	Contactor			_	
<u> </u>			AC current	Α	115
Short-circuit protection					
	High fault		Chart aireauit access	LεΛ	100
			Short circuit current Fuse rating	kA A	100 200
			Fuse class	^	J
	Standard fault		. 200 01400		-
			Short circuit current	kA	10
			Fuse rating	Α	200
			Fuse class		RK5
Ambient conditions					
Temperature					
	Operating temperature	е			
			min	°C	-50
	01		max	°C	70
	Storage temperature		•	°C	60
			min	°C	-60 80
Max altitude			max	m	3000
- INION CHILLIAGO				111	



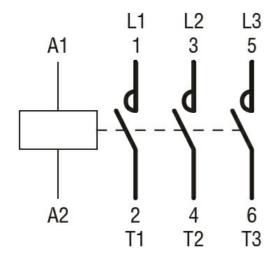
ENERGY AND AUTOMATION

#### **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

UL 60947-1

UL 60947-4-1

#### Certificates



#### BF9400A110

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

CCC			
cULus			
EAC			

ETIM classification

ETIM 8.0

EC000066 -Power contactor, AC switching