

# FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 140A, AC COIL 50/60HZ,



Product designation	Power contactor
Product type designation	BF95

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Contact characteristics			
Number of poles		Nr.	4
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		Α	140
Operational current le			
	AC-1 (≤40°C)	Α	140
	AC-1 (≤55°C)	Α	115
	AC-1 (≤70°C)	Α	100
	AC-3 (≤440V ≤55°C)	Α	95
	AC-4 (400V)	Α	45
Rated operational current AC-3 (T≤55°C)	, ,		
, ,	230V	Α	95
	400V	Α	95
	415V	Α	95
	440V	Α	95
	500V	Α	95
	690V	Α	93
	1000V	Α	33
IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series			
·	≤24V	Α	140
	48V	Α	140
	75V	Α	100
	110V	Α	10
	220V	Α	_
IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series			
	≤24V	Α	140
	48V	Α	140
	75V	Α	140
	110V	Α	110
	220V	Α	12
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series			
	≤24V	Α	140
	48V	Α	140
	75V	Α	155
	110V	Α	120
	220V	A	125
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series	220 V	,,	120
120 Max surrous to in 201 Mail E/1 = 1110 Wall 4 poloo il 301100	≤24V	Α	140
	48V	A	140
	V	, ,	, 10



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	75V	Α	155
	110V	Α	140
	220V	Α	140
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series			
	≤24V	Α	140
	48V	Α	44
	75V	Α	36
	110V	Α	6
	220V	Α	_
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series			
	≤24V	Α	140
	48V	Α	63
	75V	A	60
	110V	A	55
150	220V	Α	7
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series	.0.43.4	_	
	≤24V	A	140
	48V	A	115
	75V	Α	90
	110V	A	85
150	220V	Α	76
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series	10 A) /		4.40
	≤24V	A	140
	48V	A	110
	75V	Α	110
	110V	Α	105
Chart time allowable assumed for 40s (IEO/ENICO047.4)	220V	A	95
Short-time allowable current for 10s (IEC/EN60947-1)		Α	760
Protection fuse	~C (IFC)	۸	100
	gG (IEC)	A	160
Making conscity (PMS value)	aM (IEC)	A A	100 1200
Making capacity (RMS value)		A	1200
Breaking capacity at voltage	440\/	۸	1100
	440V	A	1100
	500V	A	775
Decistores per pela (average value)	690V	A	745 0.45
Resistance per pole (average value)		mΩ	0.45
Power dissipation per pole (average value)	Ith	۱۸/	0.0
	Ith AC-3	W	8.8
Tightening torque for terminals	AU-3	W	4.1
rightening torque for terminals	min	Nim	6
	min	Nm	6
	max	Nm Ibin	7
	min	lbin Ibin	4.4 5.2
Tightening torque for coil terminal	max	ווטוו	J.Z
rightening torque for contentinal	min	Nm	0.8
	min	Nm	
	max min	Ibin	1 0.59
Conductor section	max	Ibin	0.74
AWG/Kcmil			
AVVO/NCIIII	may		2/0
	max		<i>21</i> <b>0</b>



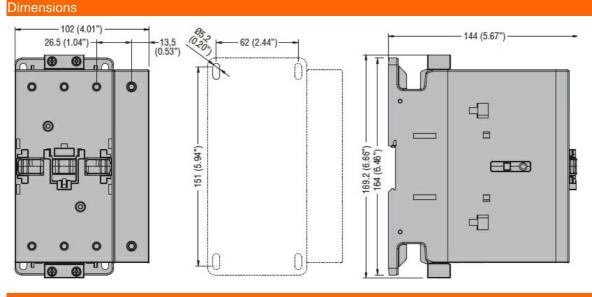
## FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 140A, AC COIL 50/60HZ,

	Flexible w/o lug conductor section			
	rickible w/o lag conductor section	min	mm²	1.5
		max	mm²	70
	Flexible c/w lug conductor section	тих		7.0
	r lexible 6/w lug corrudctor section	min	mm²	1.5
		max	mm²	70
Power terminal protect	tion according to IEC/EN 60529	max	111111	IP20 front
Mechanical features	ion according to IEC/EN 00329			11 20 110111
Operating position				
Operating position		normal		Vertical plan
		allowable		±30°
		allowable		Screw / DIN rail
Fixing				35mm
Weight			g	2420
Conductor section			9	2420
Conductor Section	ANAC/kamil aandustar aastian			
	AWG/kcmil conductor section	may		2/0
Auviliany contact chara	eteriotice	max		2/0
Auxiliary contact chara	ciensiics		۸	4.40
Thermal current Ith			Α	140
Operations			I	4500000
Mechanical life			cycles	15000000
Electrical life			cycles	1400000
AC coil operating				
Rated AC voltage at 5	0/60Hz		V	24
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	40
		max	%Us	55
AC average coil consu	•			
	of 50/60Hz coil powered at 50Hz			
		in-rush	VA	300
		holding	VA	20
	of 50/60Hz coil powered at 60Hz		VA	20
	of 50/60Hz coil powered at 60Hz		VA VA	275
	of 50/60Hz coil powered at 60Hz	holding		
	of 50/60Hz coil powered at 60Hz of 60Hz coil powered at 60Hz	holding in-rush	VA	275
		holding in-rush	VA	275
		in-rush holding	VA VA	275 17
Dissipation at holding	of 60Hz coil powered at 60Hz	in-rush holding in-rush	VA VA	275 17 300
<u> </u>	of 60Hz coil powered at 60Hz	in-rush holding in-rush	VA VA VA	275 17 300 20
Dissipation at holding:  Max cycles frequency  Mechanical operation	of 60Hz coil powered at 60Hz	in-rush holding in-rush	VA VA VA VA W	275 17 300 20 6.5
	of 60Hz coil powered at 60Hz	in-rush holding in-rush	VA VA VA	275 17 300 20 6.5

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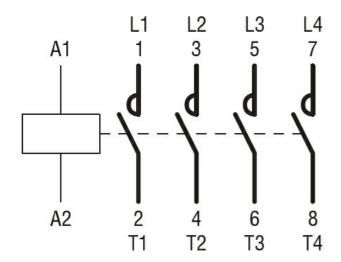
	in AC				
	III AC	Closing NO			
		5.55g	min	ms	16
			max	ms	32
		Opening NO			
			min	ms	9
			max	ms	24
UL technical data					
General USE					
	Contactor				
			AC current	Α	150
Short-circuit protection fuse, 600V					
	High fault				
			Short circuit current	kA	100
			Fuse rating	Α	200
			Fuse class		J
	Standard fault				
			Short circuit current	kA	10
			Fuse rating	Α	250
			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



#### Wiring diagrams

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#### FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 140A, AC COIL 50/60HZ, 24VAC



#### 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

cULus

EAC

ETIM classification

ETIM 8.0

EC000066 -Power contactor, AC switching