

Product designation

Product type designation

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 95A, AC/DC COIL, 60...110VAC/DC



Power contactor

BF95

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 140 Α 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) 45 Rated operational power AC-3 (T≤55°C) kW 30 230V 400V kW 55 415V kW 55 440V kW 55 500V kW 75 690V kW 90 1000V kW 45 Rated operational current AC-3 (T≤55°C) 230V Α 95 400V Α 95 415V Α 95 440V Α 95 500V 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 140

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

75V

110V

220V

≤24V

48V

75V

110V

220V

100

10

140

140

140110

12

Α

Α

Α

Α

Α



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	≤24V	Α	140
	48V	Α	140
	75V	Α	155
	110V	Α	120
	220V	Α	125
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series			
	≤24V	Α	140
	48V	Α	140
	75V	A	155
	110V	Α	140
	220V	A	140
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series	2201	,,	
TEO THAN GUITCH TO IT DOO DOO WILL DIVE TO THE WILL I POICE IT SOLICE	≤24V	Α	140
	48V	A	44
	75V	A	36
	110V	A	6
IFO	220V	Α	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series	40.41.4		4.40
	≤24V	Α	140
	48V	Α	63
	75V	Α	60
	110V	Α	55
	220V	Α	7
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series			
	≤24V	Α	140
	48V	Α	115
	75V	Α	90
	110V	Α	85
	220V	Α	76
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series			
	≤24V	Α	140
	48V	Α	110
	75V	Α	110
	110V	Α	105
	220V	Α	95
Short-time allowable current for 10s (IEC/EN60947-1)		Α	760
Protection fuse			
	gG (IEC)	Α	160
	aM (IEC)	Α	100
Making capacity (RMS value)	·	Α	1200
Breaking capacity at voltage			
3	440V	Α	1100
	500V	A	775
	690V	A	745
Resistance per pole (average value)	000 7	mΩ	0.45
Power dissipation per pole (average value)		11122	J.70
i omoi dissipation poi poic (average value)	Ith	W	8.8
	AC-3	W	6.6 4.1
Tightoning targue for terminals	AU-3	VV	4.1
Tightening torque for terminals		N I.a.:	0
	min	Nm	6
	max	Nm	7
	min	lbin 	4.4
	max	Ibin	5.2

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Tightening torque for				
3 1 3 1 1	coil terminal			
		min	Nm	0.8
		max	Nm	1
		min	lbin	0.59
		max	lbin	0.74
Conductor section				
	AWG/Kcmil			
		max		2/0
	Flexible w/o lug conductor section			
	•	min	mm²	1.5
		max	mm²	70
	Flexible c/w lug conductor section			. •
	Tionible of Wildy conductor decitor	min	mm²	1.5
		max	mm²	70
Dower terminal protec	otion according to IEC/EN 60500	Παλ	111111	IP20 front
· · · · · · · · · · · · · · · · · · ·	ction according to IEC/EN 60529			IP20 IIONI
Mechanical features				
Operating position		_		
		normal		Vertical plan
		allowable		±30°
ixing				Screw / DIN rail
				35mm
Veight			g	2060
Conductor section				
	AWG/kcmil conductor section			
		max		2/0
Auxiliary contact char	acteristics			
Thermal current Ith			Α	140
Operations				
Mechanical life			cycles	15000000
=lectrical lite			-	
			cycles	1400000
AC coil operating	50/60Hz 60Hz		-	
Electrical life AC coil operating Rated AC voltage at 5	50/60Hz, 60Hz	min	cycles	1400000
AC coil operating	50/60Hz, 60Hz	min	cycles	1400000
AC coil operating Rated AC voltage at 5	50/60Hz, 60Hz	min max	cycles	1400000
AC coil operating Rated AC voltage at 5			cycles	1400000
AC coil operating Rated AC voltage at 5	of 50/60Hz coil powered at 50Hz		cycles	1400000
AC coil operating Rated AC voltage at 5		max	v V V	1400000 60 110
AC coil operating Rated AC voltage at 5	of 50/60Hz coil powered at 50Hz		v V V	1400000 60 110 80 Us min
AC coil operating Rated AC voltage at 5	of 50/60Hz coil powered at 50Hz	max	v V V	1400000 60 110
AC coil operating Rated AC voltage at 5	of 50/60Hz coil powered at 50Hz	max	v V V	1400000 60 110 80 Us min
AC coil operating Rated AC voltage at 5	of 50/60Hz coil powered at 50Hz pick-up	max	v V V	1400000 60 110 80 Us min
AC coil operating Rated AC voltage at 5	of 50/60Hz coil powered at 50Hz pick-up	max min max	V V V	1400000 60 110 80 Us min 110 Us max
AC coil operating	of 50/60Hz coil powered at 50Hz pick-up drop-out	max min max	V V V	1400000 60 110 80 Us min 110 Us max
AC coil operating Rated AC voltage at 5	of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz	max min max	V V V	1400000 60 110 80 Us min 110 Us max
AC coil operating Rated AC voltage at 5	of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz	max min max max	v V V %Us %Us %Us	1400000 60 110 80 Us min 110 Us max ≤70 Us min 80 Us min
AC coil operating Rated AC voltage at 5	of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up	max min max max	v V V *Us *Us	1400000 60 110 80 Us min 110 Us max ≤70 Us min
AC coil operating Rated AC voltage at 5	of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz	max max max max	v V V %Us %Us %Us	1400000 60 110 80 Us min 110 Us max ≤70 Us min 110 Us max
AC coil operating Rated AC voltage at 8 AC operating voltage	of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out	max min max max	v V V %Us %Us %Us	1400000 60 110 80 Us min 110 Us max ≤70 Us min 80 Us min
AC coil operating Rated AC voltage at 5	of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out drop-out	max max max max	v V V %Us %Us %Us	1400000 60 110 80 Us min 110 Us max ≤70 Us min 110 Us max
AC coil operating Rated AC voltage at 8 AC operating voltage	of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out	min max min max min max min max	v V V %Us %Us %Us %Us	1400000 60 110 80 Us min 110 Us max ≤70 Us min 110 Us max ≤70 Us min
AC coil operating Rated AC voltage at 8 AC operating voltage	of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out drop-out	min max min max max max in-rush	vvv Vvv %Us %Us %Us %Us	1400000 60 110 80 Us min 110 Us max ≤70 Us min 110 Us max ≤70 Us min 110 Us max
AC coil operating Rated AC voltage at 8 AC operating voltage	of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out drop-out	min max min max min max min max	v V V %Us %Us %Us %Us	1400000 60 110 80 Us min 110 Us max ≤70 Us min 110 Us max ≤70 Us min
AC coil operating Rated AC voltage at 8 AC operating voltage	of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out drop-out	min max min max min max in-rush holding	Cycles V V WUs %Us %Us %Us %Us VA VA	1400000 60 110 80 Us min 110 Us max ≤70 Us min 110 Us max ≤70 Us min 70175 1.73.5
AC coil operating Rated AC voltage at 8 AC operating voltage	of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out drop-out	min max min max max max in-rush	vvv Vvv %Us %Us %Us %Us	1400000 60 110 80 Us min 110 Us max ≤70 Us min 110 Us max ≤70 Us min 110 Us max





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	of 60Hz coil powered	at 60Hz			
	or ouriz con powered	at 00112	in-rush	VA	70175
			holding	VA	1.73.5
Dissipation at holding	<20°C 50Hz		Holding	W	1.31,5
DC coil operating	320 C 30HZ			VV	1.31,3
DC rated control voltage	20				
Do rated control voltag	gC .		min	V	60
			max	V	110
DC operating voltage			Παλ	v	110
Do operating voltage	pick-up				
	pick up		min	%Us	80 Us min
			max	%Us	110 Us max
	drop-out		тих	7000	110 03 110
	arop out		max	%Us	≤70 Us min
Average coil consump	tion <20°C		тих	7000	=7 0 00 11m1
7 Werage con concamp	11011 =20 0		in-rush	W	7080
			holding	W	1.31.5
Max cycles frequency			Tiolaing	• • • • • • • • • • • • • • • • • • • •	
Mechanical operation				cycles/h	1500
Operating times				0,0100/11	
Average time for Us co	ontrol				
	in AC				
	III AO	Closing NO			
		Clocking 110	min	ms	45
			max	ms	90
		Opening NO	тах	1110	
		oponing ito	min	ms	24
			max	ms	60
	in DC				
	0	Closing NO			
		orosing rec	min	ms	45
			max	ms	85
		Opening NO			
		1 3	min	ms	24
			max	ms	60
UL technical data					
Yielded mechanical pe	erformance				
·	for three-phase AC m	otor			
	,		200/208V	HP	30
			220/230V	HP	30
			460/480V	HP	60
			575/600V	HP	75
General USE					
	Contactor				
			AC current	Α	150
Short-circuit protection	n fuse, 600V				
•	High fault				
	-		Short circuit current	kA	100
			Fuse rating	Α	200
			Fuse class		J
	Standard fault				
			0 1	LεΛ	10
			Short circuit current	kA	10
			Short circuit current Fuse rating	KA A	250

ENERGY AND AUTOMATION

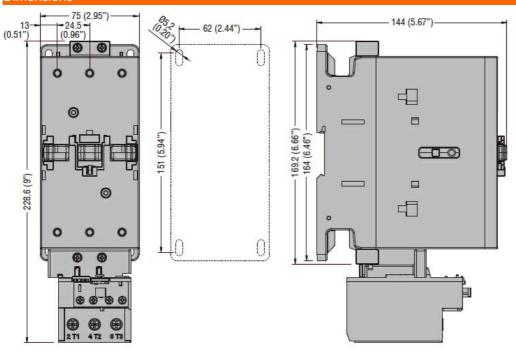
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Ambient conditions

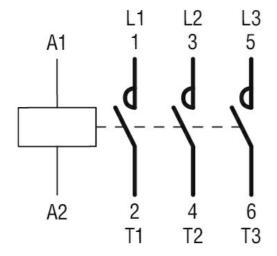
Temperature

Operating temperature				
	min	°C	-50	
	max	°C	70	
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

UL 60947-1



BF9500E110

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	UL 60947-4-1	
Certificates		
	CCC	
	cULus	
ETIM classification		
		5000000

ETIM 8.0

EC000066 -Power contactor, AC switching