

### THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 95A, AC COIL 50/60HZ, 48VAC



Product designation Power contactor Product type designation **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) 230V kW 30 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 Α 75V 100 Α 110V Α 10 220V IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series

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

≤24V

48V

75V

110V

220V

Α

Α

Α

140

140

140110

12



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	≤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			
	≤24V	Α	140
	48V	Α	140
	75V	Α	155
	110V	Α	140
150	220V	Α	140
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series	-0.43.4	•	4.40
	≤24V	A	140
	48V	A	44
	75V	A	36
	110V	A	6
IFC may augreent to in DC2 DC5 with L/D < 15 mg with 2 notes in cories	220V	Α	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series	≤24V	۸	140
	≥24V 48V	A A	63
	46 V 75 V	A	60
	110V	A	55
	220V	A	7
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series	220 V		
TEC That current le in DC3-DC3 with L/K = 13ms with 3 poles in series	≤24V	Α	140
	48V	A	115
	75V	A	90
	110V	A	85
	220V	A	76
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series	220 V		10
120 max danoncio in 200 200 mai 210 - 10me mai i poloci in conce	≤24V	Α	140
	48V	A	110
	75V	A	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			
	440V	Α	1100
	500V	Α	775
	690V	Α	745
Resistance per pole (average value)		mΩ	0.45
Power dissipation per pole (average value)			-
· · · · · · · · · · · · · · · · · · ·	Ith	W	8.8
	AC-3	W	4.1
Tightening torque for terminals			
	min	Nm	6
	max	Nm	7
	min	lbin	4.4
	max	lbin	5.2

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Tightening torque for	coil terminal			
		min	Nm	0.8
		max	Nm	1
		min	Ibin	0.59
		max	Ibin	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			
	, and the second	min	mm²	1.5
		max	mm²	70
Power terminal protect	ction according to IEC/EN 60529			IP20 front
Mechanical features	3			
Operating position				
19		normal		Vertical plan
		allowable		±30°
		anomable		Screw / DIN rail
Fixing				35mm
Weight			g	2020
Conductor section			<u> </u>	
Soriadotor Scotion	AWG/kcmil conductor section			
	AVV S/Remii conductor section	max		2/0
Auxiliary contact char	acteristics	Пих		2/0
	40101101100			
Thermal current im			Α	140
			Α	140
Operations				
Operations Mechanical life			cycles	15000000
Operations Mechanical life Electrical life				
Operations Mechanical life Electrical life AC coil operating	50/60Hz		cycles cycles	15000000 1400000
Operations Mechanical life Electrical life AC coil operating Rated AC voltage at \$			cycles	15000000
Operations  Mechanical life  Electrical life  AC coil operating  Rated AC voltage at 8			cycles cycles	15000000 1400000
Operations  Mechanical life  Electrical life  AC coil operating  Rated AC voltage at 8	of 50/60Hz coil powered at 50Hz		cycles cycles	15000000 1400000
Operations  Mechanical life  Electrical life  AC coil operating  Rated AC voltage at 8		min	cycles cycles V	15000000 1400000 48
Operations Mechanical life Electrical life AC coil operating Rated AC voltage at \$	of 50/60Hz coil powered at 50Hz	min	cycles cycles V	15000000 1400000 48
Operations Mechanical life Electrical life AC coil operating Rated AC voltage at \$	of 50/60Hz coil powered at 50Hz pick-up	min max	cycles cycles V	15000000 1400000 48
Operations Mechanical life Electrical life AC coil operating Rated AC voltage at \$	of 50/60Hz coil powered at 50Hz	max	cycles cycles V %Us %Us	15000000 1400000 48 80 110
Operations Mechanical life Electrical life AC coil operating Rated AC voltage at \$	of 50/60Hz coil powered at 50Hz pick-up	max min	cycles cycles  V  %Us %Us %Us	15000000 1400000 48 80 110
Operations Mechanical life Electrical life AC coil operating Rated AC voltage at \$	of 50/60Hz coil powered at 50Hz pick-up drop-out	max	cycles cycles V %Us %Us	15000000 1400000 48 80 110
Operations Mechanical life Electrical life AC coil operating Rated AC voltage at \$	of 50/60Hz coil powered at 50Hz pick-up  drop-out  of 50/60Hz coil powered at 60Hz	max min	cycles cycles  V  %Us %Us %Us	15000000 1400000 48 80 110
Operations Mechanical life Electrical life AC coil operating Rated AC voltage at \$	of 50/60Hz coil powered at 50Hz pick-up drop-out	max min max	cycles cycles  V  %Us %Us %Us %Us %Us	15000000 1400000 48 80 110 20 55
Operations  Mechanical life  Electrical life  AC coil operating  Rated AC voltage at 8	of 50/60Hz coil powered at 50Hz pick-up  drop-out  of 50/60Hz coil powered at 60Hz	max min max min	cycles cycles  V  %Us %Us %Us %Us %Us	15000000 1400000 48 80 110 20 55
Operations Mechanical life Electrical life AC coil operating Rated AC voltage at \$	of 50/60Hz coil powered at 50Hz pick-up  drop-out  of 50/60Hz coil powered at 60Hz pick-up	max min max	cycles cycles  V  %Us %Us %Us %Us %Us	15000000 1400000 48 80 110 20 55
Operations  Mechanical life  Electrical life  AC coil operating  Rated AC voltage at 8	of 50/60Hz coil powered at 50Hz pick-up  drop-out  of 50/60Hz coil powered at 60Hz	max min max min max	cycles cycles  V  %Us %Us %Us %Us %Us %Us	15000000 1400000 48 80 110 20 55
Operations  Mechanical life  Electrical life  AC coil operating  Rated AC voltage at 8	of 50/60Hz coil powered at 50Hz pick-up  drop-out  of 50/60Hz coil powered at 60Hz pick-up	max min max min max min max	cycles cycles  V  %Us %Us %Us %Us %Us %Us %Us	15000000 1400000 48 80 110 20 55 85 110 40
Operations Mechanical life Electrical life 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 min max	cycles cycles  V  %Us %Us %Us %Us %Us %Us	15000000 1400000 48 80 110 20 55
Thermal current Ith Operations Mechanical life Electrical life AC coil operating Rated AC voltage at 8 AC operating voltage  AC average coil cons	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 min max min max	cycles cycles  V  %Us %Us %Us %Us %Us %Us %Us	15000000 1400000 48 80 110 20 55 85 110 40
Operations Mechanical life Electrical life 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 min max min max min max	cycles cycles V  %Us %Us %Us %Us %Us %Us %Us %Us %Us	15000000 1400000 48 80 110 20 55 85 110 40 55
Operations Mechanical life Electrical life 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 min max min max in-rush	cycles cycles  V  %Us %Us %Us %Us %Us %Us %Us %Us	15000000 1400000 48 80 110 20 55 85 110 40 55
Operations Mechanical life Electrical life 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	max min max min max min max min max	cycles cycles V  %Us %Us %Us %Us %Us %Us %Us %Us %Us	15000000 1400000 48 80 110 20 55 85 110 40 55
Operations Mechanical life Electrical life 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 min max min max in-rush holding	cycles cycles V  %Us %Us %Us %Us %Us %Us VA VA	15000000 1400000 48 80 110 20 55 85 110 40 55
Operations Mechanical life Electrical life 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	max min max min max min max in-rush	cycles cycles  V  %Us %Us %Us %Us %Us %Us %Us %Us	15000000 1400000 48 80 110 20 55 85 110 40 55



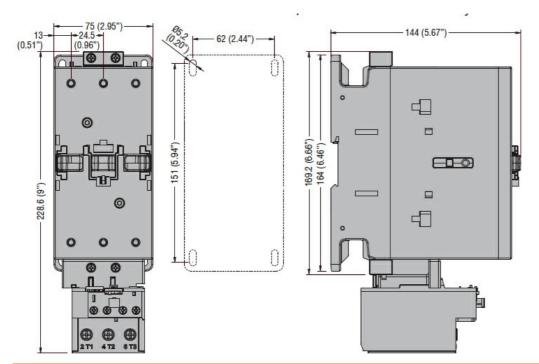


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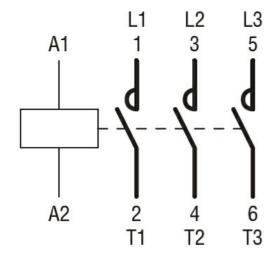
	of 60Hz coil powered a	t 60Hz			
			in-rush	VA	300
			holding	VA	20
Dissipation at holding ≤	20°C 50Hz			W	6.5
Max cycles frequency					
Mechanical operation				cycles/h	1500
Operating times					
Average time for Us con	ntrol				
Ŭ	in AC				
		Closing NO			
		0.00g	min	ms	16
			max	ms	32
		Opening NO	max	1110	02
		opening NO	min	me	9
				ms ms	24
UL technical data			max	ms	<b>24</b>
	formono				
Yielded mechanical per					
	for three-phase AC mo	tor			
			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 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	A	250
			Fuse class	77	RK5
Ambient conditions			1 use ciass		IXIXU
Temperature					
remperature	Operating temperature				
	Operating temperature			°C	E0
			min	°C	-50 -70
	01		max	°C	70
	Storage temperature			0.5	
			min	°C	-60
			max	°C	+80
Max altitude				m	3000
Dimensions					

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### THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 95A, AC COIL 50/60HZ,



#### 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

cULus

ETIM classification

**ETIM 8.0** 

EC000066 -Power contactor, AC switching