

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 95A, AC COIL 50/60HZ, 110VAC



Product designation Power contactor Product type designation BF95

Contact characteristics

Number of poles Nr. 3

Number of poles		Nr.	3
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 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	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
	220V	Α	12

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





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	≤24V	Α	140
	48V	Α	140
	75V	A	155
	110V	Α	120
	220V	A	125
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series	220 V		123
TEC max current le in DCT with L/R \(\simes \) mis with 4 poles in series	<04)/	۸	4.40
	≤24V	A	140
	48V	A	140
	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	Α	60
	110V	A	55
	220V	A	7
IFO to in DO2 DO5 with 1 /D < 45 with 2 inin	220 V	A	1
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series	.0.41.4		
	≤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)	aw (ILO)	A	1200
Breaking capacity (Nivis value)		Α	1200
breaking capacity at voltage	4.40\/		4400
	440V	A	1100
	500V	A	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	Ibin	5.2
	11107		*·=

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Timbtoniaa tovova for				
rigntening torque for (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			
		min	mm²	1.5
		max	mm²	70
Power terminal protec	ction according to IEC/EN 60529			IP20 front
Mechanical features				
perating position				
		normal		Vertical plan
		allowable		±30°
Tiving		<u> </u>		Screw / DIN rail
Fixing				35mm
Veight			g	2020
Conductor section			-	
	AWG/kcmil conductor section			
		max		2/0
Auxiliary contact chara	acteristics			
Thermal current Ith			Α	140
Operations				
Mechanical life			cycles	15000000
Electrical life			مماميم	4.400000
-100111041 1110			cycles	1400000
			cycles	1400000
AC coil operating	50/60Hz		V	110
AC coil operating Rated AC voltage at 5	50/60Hz			
AC coil operating Rated AC voltage at 5	of 50/60Hz coil powered at 50Hz			
AC coil operating Rated AC voltage at 5				
AC coil operating Rated AC voltage at 5	of 50/60Hz coil powered at 50Hz	min		
AC coil operating Rated AC voltage at 5	of 50/60Hz coil powered at 50Hz	min max	V	110
AC coil operating Rated AC voltage at 5	of 50/60Hz coil powered at 50Hz		V %Us	110
AC coil operating Rated AC voltage at 5	of 50/60Hz coil powered at 50Hz pick-up		V %Us	110
AC coil operating Rated AC voltage at 5	of 50/60Hz coil powered at 50Hz pick-up	max	V %Us %Us	110 80 110
AC coil operating Rated AC voltage at 5	of 50/60Hz coil powered at 50Hz pick-up	max min	V %Us %Us %Us	110 80 110 20
AC coil operating Rated AC voltage at 5	of 50/60Hz coil powered at 50Hz pick-up drop-out	max min	V %Us %Us %Us	110 80 110 20
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	V %Us %Us %Us	110 80 110 20
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 %Us %Us %Us %Us	110 80 110 20 55
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 min	V %Us %Us %Us %Us %Us	110 80 110 20 55
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 min	V %Us %Us %Us %Us %Us	110 80 110 20 55
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 min max	V %Us %Us %Us %Us %Us	110 80 110 20 55 85 110
AC coil operating Rated AC voltage at 5 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	V %Us %Us %Us %Us %Us %Us	110 80 110 20 55 85 110 40
AC coil operating Rated AC voltage at 5 AC operating voltage AC average coil consi	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	V %Us %Us %Us %Us %Us %Us	110 80 110 20 55 85 110 40
AC coil operating Rated AC voltage at 5 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	V %Us %Us %Us %Us %Us %Us %Us	110 80 110 20 55 85 110 40 55
AC coil operating Rated AC voltage at 5 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	V %Us %Us %Us %Us %Us %Us %Us	110 80 110 20 55 85 110 40 55
AC coil operating Rated AC voltage at 5 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	V %Us %Us %Us %Us %Us %Us %Us	110 80 110 20 55 85 110 40 55
AC coil operating Rated AC voltage at 5 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	V %Us %Us %Us %Us %Us %Us %Us	110 80 110 20 55 85 110 40 55



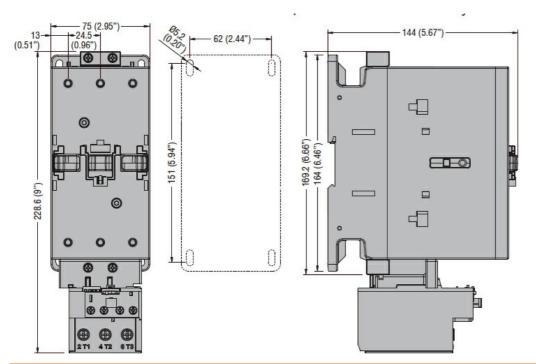


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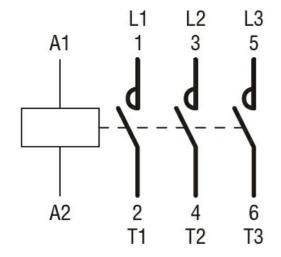
	of 60Hz coil powered at 60Hz	<u>z</u>			
			in-rush	VA	300
			holding	VA	20
Dissipation at holding ≤	20°C 50Hz			W	6.5
Max cycles frequency					
Mechanical operation				cycles/h	1500
Operating times				G y 010 0711	1000
Average time for Us co	introl				
Average time for 03 co	in AC				
		NO			
	Ciosi	ng NO			40
			min	ms	16
			max	ms	32
	Open	ning NO			
			min	ms	9
			max	ms	24
UL technical data					
Yielded mechanical pe	rformance				
	for three-phase AC motor				
	·		200/208V	HP	30
			220/230V	HP	30
			460/480V	HP	60
			575/600V	HP	75
General USE			07070001	- '''	10
General OSL	Contactor				
	Contactor		A O	^	450
01 1 1 1 1 1			AC current	A	150
Short-circuit protection					
	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			. 333 3.300		
Temperature					
Tomporataro	Operating temperature				
	Operating temperature		ma!.a	°C	E0
			min		-50 -70
	-		max	°C	70
	Storage temperature				
			min	°C	-60
			max	°C	+80
Max altitude				m	3000
Dimensions					

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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