

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



Product designation Power contactor Product type designation BF95

Product type designation			BF95
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	Α	125
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series	·		
•	≤24V	Α	140
	48V	Α	140



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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	.0.41.7		
	≤24V	A	140
	48V	A	44
	75V 110V	A	36
	220V	A A	6 _
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series	220 V		_
The max current le in boo-boo with the 2 forms with 2 poles in series	≤24V	Α	140
	48V	A	63
	75V	Α	60
	110V	A	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	4.40)./		
	440V	Α	1100
	500V	A	775
Decistance and the language colors	690V	A	745
Resistance per pole (average value)		mΩ	0.45
Power dissipation per pole (average value)	141-	147	0.0
	Ith	W	8.8
Tightening torque for terminals	AC-3	W	4.1
rightening torque for terminals	min	Nlm	6
	min	Nm Nm	6 7
	max min	Ibin	<i>7</i> 4.4
	max	Ibin	5.2
Tightening torque for coil terminal	Пах	10111	U.L
nginoning torque for contentinal	min	Nm	0.8
	max	Nm	1
	min	lbin	0.59
	max	lbin	0.74
Conductor section	Шах		
AWG/Kcmil			
	max		2/0
	111071		





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	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 prote	ction according to IEC/EN 60529			IP20 front
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
Eiving				Screw / DIN rail
Fixing				35mm
Weight			g	2460
Conductor section				
	AWG/kcmil conductor section			
		max		2/0
Auxiliary contact char	acteristics			
Thermal current Ith			Α	140
Operations				
Mechanical life			cycles	15000000
Electrical life			cycles	1400000
AC coil operating				
Rated AC voltage at	50/60Hz, 60Hz			
		min	V	20
		max	V	48
AC operating voltage				
	of 50/60Hz coil powered at 50Hz			
	pick-up			
		min	%Us	85 Us min
		max	%Us	110 Us max
	drop-out			
		max	%Us	≤70 Us min
	of 50/60Hz coil powered at 60Hz			
	pick-up			
		min	%Us	85 Us min
		max	%Us	110 Us max
	drop-out			
		max	%Us	≤70 Us min
AC average coil cons	sumption at 20°C			
	of 50/60Hz coil powered at 50Hz			
		in-rush	VA	70175
		holding	VA	1.73.5
	of 50/60Hz coil powered at 60Hz			
		in-rush	VA	70175
		holding	VA	1.73.5
	of 60Hz coil powered at 60Hz			
		in-rush	VA	70175
		holding	VA	1.73.5
Dissipation at holding	յ ≤20°C 50Hz		W	1.31,5
DC coil operating				
DC rated control volta	age			
		min	V	20
		max	V	48



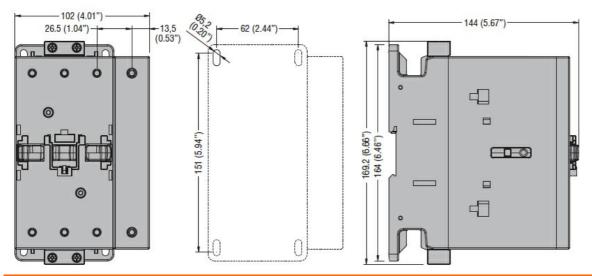


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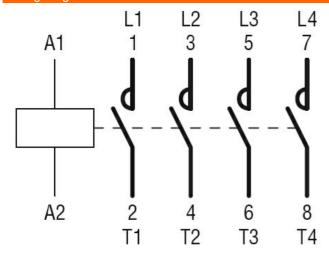
DC operating voltage					
DC operating voltage	pick-up				
	ριοίτ αρ		min	%Us	80 Us min
			max	%Us	110 Us max
	drop-out				
			max	%Us	≤70 Us min
Average coil consump	tion ≤20°C				
			in-rush	W	7080
			holding	W	1.31.5
Max cycles frequency				//	4500
Mechanical operation				cycles/h	1500
Operating times Average time for Us co	ontrol				
Average lime for Os G	in AC				
	III AO	Closing NO			
		Sissing 140	min	ms	45
			max	ms	90
		Opening NO	max		
			min	ms	24
			max	ms	60
	in DC				
		Closing NO			
			min	ms	45
			max	ms	85
		Opening NO			
			min	ms	24
			max	ms	60
UL technical data					
General USE					
	Contactor			_	
<u></u>			AC current	Α	150
Short-circuit protection					
	High fault		01 - 4 - 2 - 2 - 2		100
			Short circuit current	kA	100
			Fuse rating	Α	200
	Standard fault		Fuse class		J
	Stanuaru fauit		Short circuit current	kA	10
			Fuse rating	A	250
			Fuse class	^	RK5
Ambient conditions			1 430 01433		
Temperature					
	Operating temperature)			
	1		min	°C	-50
			max	°C	70
	Storage temperature				
	Q :		min	°C	-60
			max	°C	+80
Max altitude				m	3000
Dimensions					

ENERGY AND AUTOMATION

FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 140A, AC/DC COIL,



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

EAC

ETIM classification

ETIM 8.0

EC000066 -Power contactor, AC switching