FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 160A, AC COIL 50/60HZ, 110VAC



Product designation Power contactor
Product type designation RF115

Product type designation			BF115
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	160
Operational current le			
	AC-1 (≤40°C)	Α	160
	AC-1 (≤55°C)	Α	130
	AC-1 (≤70°C)	Α	115
	AC-3 (≤440V ≤55°C)	Α	115
	AC-4 (400V)	Α	54
Rated operational current AC-3 (T≤55°C)			
	230V	Α	115
	400V	Α	115
	415V	Α	115
	440V	Α	115
	500V	Α	106
	690V	Α	106
	1000V	Α	39
IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series			
	≤24V	Α	160
	48V	Α	160
	75V	Α	120
	110V	Α	10
	220V	Α	
IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series			
	≤24V	Α	160
	48V	Α	160
	75V	Α	160
	110V	Α	130
	220V	Α	14
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series			
	≤24V	Α	160
	48V	Α	160
	75V	Α	160
	110V	Α	140
	220V	A	145
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series			
	≤24V	Α	160
	48V	Α	160





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	75V	Α	160
	110V	Α	160
	220V	Α	160
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series			
	≤24V	Α	160
	48V	Α	50
	75V	Α	40
	110V	Α	6
	220V	Α	_
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series			
	≤24V	Α	160
	48V	Α	72
	75V	Α	65
	110V	Α	65
	220V	Α	7
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series			
	≤24V	Α	160
	48V	Α	150
	75V	Α	100
	110V	Α	100
	220V	Α	92
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series			
	≤24V	Α	160
	48V	Α	120
	75V	Α	120
	110V	A	125
01 - 11 - 11 - 11 - 11 - 11 - 11 - 11 -	220V	A	115
Short-time allowable current for 10s (IEC/EN60947-1)		Α	920
Protection fuse	0 (150)		000
	gG (IEC)	A	200
Malian and the (DMO all a)	aM (IEC)	A	125
Making capacity (RMS value)		Α	1500
Breaking capacity at voltage	4.40\/	Δ.	4000
	440V	A	1200
	500V	A	850
Destruction of the control of	690V	Α	905
Resistance per pole (average value)		mΩ	0.45
Power dissipation per pole (average value)	Tel.	101	44.5
	Ith	W	11.5
-	AC-3	W	6.0
Tightening torque for terminals			•
	min	Nm	6
	max	Nm	7
	min	lbin	4.4
Tightenia ataum atau sail tagairei	max	lbin	5.2
Tightening torque for coil terminal			0.0
	min	Nm	0.8
	max ·	Nm	1
	min	lbin	0.59
	max	Ibin	0.74
Conductor section			
AWG/Kcmil			0/0
	max		2/0





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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
D (max	mm²	70
Power terminal protec Mechanical features	tion according to IEC/EN 60529			IP20 front
Operating position				
Operating position		normal		Vertical plan
		allowable		±30°
		anowabio		Screw / DIN rai
Fixing				35mm
Weight			g	2420
Operations				
Mechanical life			cycles	15000000
Electrical life			cycles	1200000
Safety related data				
Performance level B1	0d according to EN/ISO 13489-1			
		rated load	cycles	1200000
AC soil amounting		mechanical load	cycles	15000000
AC coil operating	0/60H-7		V	110
Rated AC voltage at 5 AC operating voltage	0/80HZ		V	110
Ac operating voltage	of 50/60Hz coil powered at 50Hz			
	pick-up			
	p.o up	min	%Us	80
		max	%Us	110
	drop-out			
		min	%Us	20
		max	%Us	55
	of 50/60Hz coil powered at 60Hz			
	pick-up		0/11	0.5
		min	%Us	85
	drop out	max	%Us	110
	drop-out	min	%Us	40
		max	%Us	55
AC average coil consu	umption at 20°C	mux	,,,,,	
	of 50/60Hz coil powered at 50Hz			
	,	in-rush	VA	300
	·	holding	VA	20
	of 50/60Hz coil powered at 60Hz			
		in-rush	VA	275
		holding	VA	17
	of 60Hz coil powered at 60Hz			
		in-rush	VA	300
Management		holding	VA	20
Max cycles frequency			a	4500
Mechanical operation Operating times			cycles/h	1500
	ontrol			
Average time for Us co	in AC			
	III / NO			

in AC

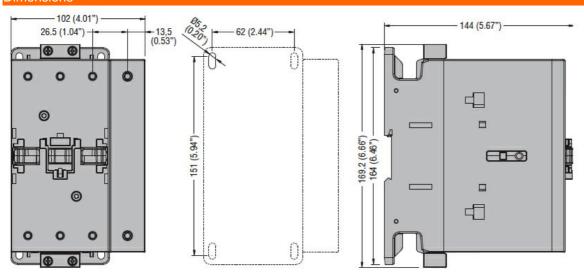
Closing NO

ENERGY AND AUTOMATION

FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 160A, AC COIL 50/60HZ,

			min	ms	16
			max	ms	32
		Opening NO		1110	02
	oponing No		min	ms	9
			max	ms	24
UL technical data					
Rated operational volta	age AC (UL)			V	600
General USE					_
	Contactor				
			AC current	Α	165
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

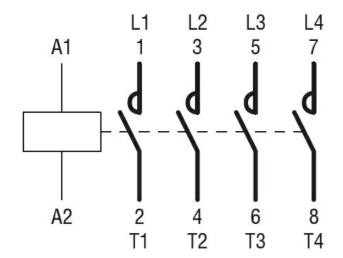
Dimensions



Wiring diagrams

ENERGY AND AUTOMATION

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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