

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 115A, AC COIL 50/60HZ, 24VAC



Product designation Power contactor

Product type designation PF115

Product type designation			BF115
Contact characteristics			
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	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 power AC-3 (T≤55°C)			_
	230V	kW	37
	400V	kW	55
	415V	kW	55
	440V	kW	55
	500V	kW	75
	690V	kW	110
	1000V	kW	55
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	A	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	A	130
IEC may current le in DC1 with I /R < 1ms with 3 notes in series	220V	Α	14

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



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	≤24V	Α	160
	48V	Α	160
	75V	Α	160
	110V	Α	140
	220V	Α	145
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series			
	≤24V	Α	160
	48V	A	160
	75V	A	160
	110V 220V	A	160
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series	220 V	Α	160
TEC max current le in DC3-DC3 with L/R \(\) Toms with 1 poles in series	≤24V	Α	160
	≥24 V 48 V	A	50
	75V	A	40
	110V	A	6
	220V	A	-
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series	2201		
120 max current to in 200-200 with 2/10 = 10m3 with 2 poics in 30m3	≤24V	Α	160
	48V	A	72
	75V	A	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	Α	125
	220V	Α	115
Short-time allowable current for 10s (IEC/EN60947-1)		Α	920
Protection fuse			
	gG (IEC)	Α	200
	aM (IEC)	A	125
Making capacity (RMS value)		Α	1500
Breaking capacity at voltage	4.40)./		4000
	440V	A	1200
	500V	A	850
Posistance per pole (everage value)	690V	A	905
Resistance per pole (average value)		mΩ	0.45
Power dissipation per pole (average value)	lth	۱۸/	11.5
		W	11.5
Tightening torque for terminals	AC-3	W	6.0
rightening torque for terminals	min	Nim	6
	min	Nm Nm	6 7
	max min	Ibin	<i>1</i> 4.4
	max	Ibin	5.2
	Παλ	IDIII	J. <u>Z</u>

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Tightening torque for o	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			-
	. ionidio o, ii lug contactor cociton	min	mm²	1.5
		max	mm²	70
Power terminal protect	ction according to IEC/EN 60529			IP20 front
Mechanical features	21011 dobbitaling to 120, 21, 1 00020			11 20 110111
Operating position				
Cholamid hosition		normal		Vertical plan
		allowable		±30°
		allowable		Screw / DIN rail
Fixing				35mm
 Weight			α .	2020
Conductor section			g	2020
Conductor Section	ANAC (karail a and vator a action			
	AWG/kcmil conductor section			0/0
On anations		max		2/0
Operations				45000000
Mechanical life			cycles	15000000
Electrical life			cycles	1200000
AC coil operating	20/0011		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	0.4
Rated AC voltage at 5	0/60HZ		V	24
AC operating voltage				
	of 50/60Hz coil powered at 50Hz			
	pick-up			
		min	%Us	80
		max	%Us	110
	drop-out			
		min	%Us	20
		max	%Us	55
	of 50/60Hz coil powered at 60Hz			
	pick-up			
		min	%Us	85
		max	%Us	110
	drop-out			
		min	%Us	40
		max	%Us	55
AC average coil consi	umption at 20°C			
	of 50/60Hz coil powered at 50Hz			
		in-rush	VA	300
		holding	VA	20
	of 50/60Hz coil powered at 60Hz			
	Fanara	in-rush	VA	275
		holding	VA	17
	of 60Hz coil powered at 60Hz	rioiding	٧,١	••
	5. 501 12 5011 powered at 501 12	in-rush	VA	300
		111-111511	v.~	300



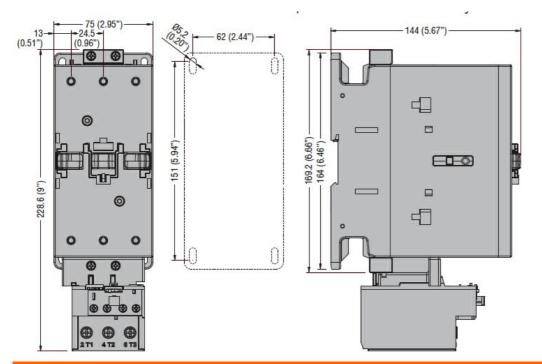


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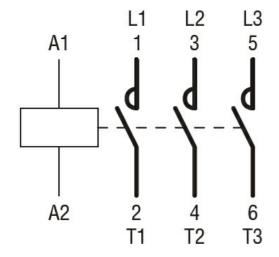
		holding	VA	20
Max cycles frequency				
Mechanical operation			cycles/h	1500
Operating times				
Average time for Us cor	ntrol			
	in AC			
	Closing NO			
		min	ms	16
		max	ms	32
	Opening NO			
		min	ms	9
		max	ms	24
UL technical data				
Yielded mechanical per	formance			
	for three-phase AC motor			
		200/208V	HP	40
		220/230V	HP	40
		460/480V	HP	75
		575/600V	HP	100
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				

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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