

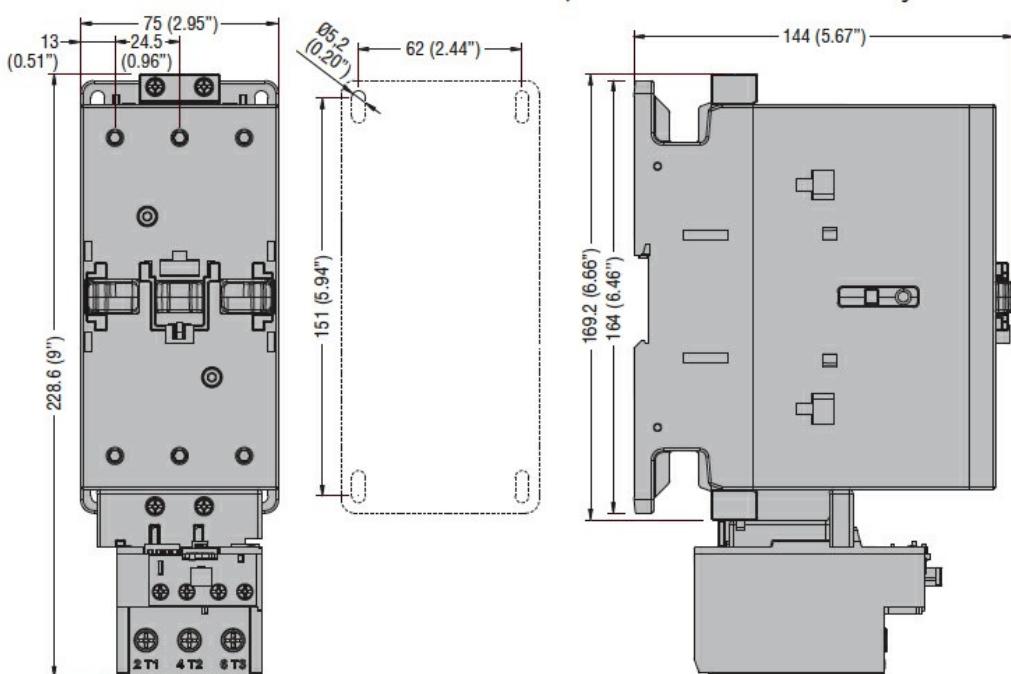


Product designation	Power contactor		
Product type designation	BF115		
Contact characteristics			
Number of poles	Nr.	3	
Rated insulation voltage U_i IEC/EN	V	1000	
Rated impulse withstand voltage U_{imp}	kV	8	
Operational frequency	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current I_{th}		A	160
Operational current I_e			
	AC-1 ($\leq 40^\circ C$)	A	160
	AC-1 ($\leq 55^\circ C$)	A	130
	AC-1 ($\leq 70^\circ C$)	A	115
	AC-3 ($\leq 440V \leq 55^\circ C$)	A	115
	AC-4 (400V)	A	54
Rated operational power AC-3 ($T \leq 55^\circ C$)			
	230V	kW	37
	400V	kW	55
	415V	kW	55
	440V	kW	55
	500V	kW	75
	690V	kW	110
	1000V	kW	55
IEC max current I_e in DC1 with $L/R \leq 1ms$ with 1 poles in series			
	$\leq 24V$	A	160
	48V	A	160
	75V	A	120
	110V	A	10
	220V	A	—
IEC max current I_e in DC1 with $L/R \leq 1ms$ with 2 poles in series			
	$\leq 24V$	A	160
	48V	A	160
	75V	A	160
	110V	A	130
	220V	A	14
IEC max current I_e in DC1 with $L/R \leq 1ms$ with 3 poles in series			
	$\leq 24V$	A	160
	48V	A	160
	75V	A	160
	110V	A	140
	220V	A	145
IEC max current I_e in DC1 with $L/R \leq 1ms$ with 4 poles in series			
	$\leq 24V$	A	160
	48V	A	160

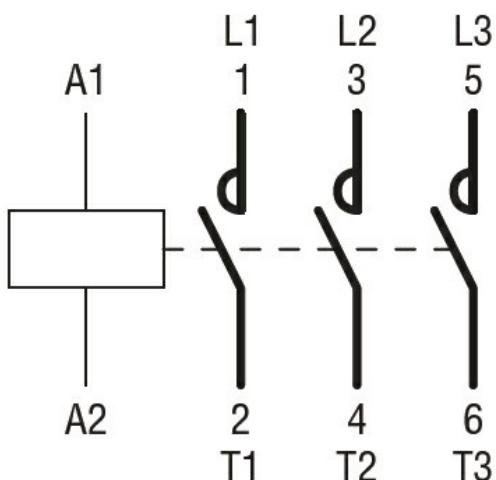
	75V	A	160
	110V	A	160
	220V	A	160
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series			
	≤24V	A	160
	48V	A	50
	75V	A	40
	110V	A	6
	220V	A	—
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series			
	≤24V	A	160
	48V	A	72
	75V	A	65
	110V	A	65
	220V	A	7
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series			
	≤24V	A	160
	48V	A	150
	75V	A	100
	110V	A	100
	220V	A	92
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series			
	≤24V	A	160
	48V	A	120
	75V	A	120
	110V	A	125
	220V	A	115
Short-time allowable current for 10s (IEC/EN60947-1)			A 920
Protection fuse			
	gG (IEC)	A	200
	aM (IEC)	A	125
Making capacity (RMS value)			A 1500
Breaking capacity at voltage			
	440V	A	1200
	500V	A	850
	690V	A	905
Resistance per pole (average value)			m? 0.45
Power dissipation per pole (average value)			
	I _{th}	W	11.5
	AC3	W	6.0
Tightening torque for terminals			
	min	Nm	6
	max	Nm	7
	min	lbin	4.4
	max	lbin	5.2
Tightening 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	mm ²	1.5
	max	mm ²	70
Flexible c/w lug conductor section	min	mm ²	1.5
	max	mm ²	70
Power terminal protection according to IEC/EN 60529			IP20 front
Mechanical features			
Operating position	normal allowable		Vertical plan ±30°
Fixing			Screw / DIN rail 35mm
Weight	g		2020
Conductor section			
AWG/kcmil conductor section	max		2/0
Operations			
Mechanical life	cycles		15000000
Electrical life	cycles		1200000
AC coil operating			
Rated AC voltage at 60Hz	V		575
AC operating voltage			
of 60Hz coil powered at 60Hz			
pick-up	min	%Us	80
	max	%Us	110
drop-out	min	%Us	20
	max	%Us	55
AC average coil consumption at 20°C			
of 60Hz coil powered at 60Hz	in-rush holding	VA	300 20
Max cycles frequency			
Mechanical operation	cycles/h		1500
Operating times			
Average time for Us control			
in AC			
Closing NO	min	ms	16
	max	ms	32
Opening NO	min	ms	9
	max	ms	24
UL technical data			
Yielded mechanical performance			
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	A	165
Short-circuit protection fuse, 600V			
High fault	Short circuit current	kA	100
	Fuse rating	A	200
	Fuse class		J
Standard fault	Short circuit current	kA	10
	Fuse rating	A	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



Certifications and compliance

Compliance

CSA C22.2 n° 60947-1

CSA C22.2 n° 60947-4-1

IEC/EN 60947-1

IEC/EN 60947-4-1

UL 60947-1

UL 60947-4-1

Certificates

CCC

cULus

ETIM classification

ETIM 8.0

EC000066 -
Power contactor,
AC switching