



Product designation	Power contactor		
Product type designation	BF95		
Contact characteristics			
Number of poles	Nr.	4	
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	140
Operational current I _e			
	AC-1 ($\leq 40^{\circ}\text{C}$)	A	140
	AC-1 ($\leq 55^{\circ}\text{C}$)	A	115
	AC-1 ($\leq 70^{\circ}\text{C}$)	A	100
	AC-3 ($\leq 440\text{V} \leq 55^{\circ}\text{C}$)	A	95
	AC-4 (400V)	A	45
Rated operational current AC-3 ($T \leq 55^{\circ}\text{C}$)			
	230V	A	95
	400V	A	95
	415V	A	95
	440V	A	95
	500V	A	95
	690V	A	93
	1000V	A	33
IEC max current I _e in DC1 with L/R $\leq 1\text{ms}$ with 1 poles in series			
	$\leq 24\text{V}$	A	140
	48V	A	140
	75V	A	100
	110V	A	10
	220V	A	—
IEC max current I _e in DC1 with L/R $\leq 1\text{ms}$ with 2 poles in series			
	$\leq 24\text{V}$	A	140
	48V	A	140
	75V	A	140
	110V	A	110
	220V	A	12
IEC max current I _e in DC1 with L/R $\leq 1\text{ms}$ with 3 poles in series			
	$\leq 24\text{V}$	A	140
	48V	A	140
	75V	A	155
	110V	A	120
	220V	A	125
IEC max current I _e in DC1 with L/R $\leq 1\text{ms}$ with 4 poles in series			
	$\leq 24\text{V}$	A	140
	48V	A	140

	75V	A	155
	110V	A	140
	220V	A	140
IEC max current I_e in DC3-DC5 with $L/R \leq 15\text{ms}$ with 1 poles in series			
	≤24V	A	140
	48V	A	44
	75V	A	36
	110V	A	6
	220V	A	—
IEC max current I_e in DC3-DC5 with $L/R \leq 15\text{ms}$ with 2 poles in series			
	≤24V	A	140
	48V	A	63
	75V	A	60
	110V	A	55
	220V	A	7
IEC max current I_e in DC3-DC5 with $L/R \leq 15\text{ms}$ with 3 poles in series			
	≤24V	A	140
	48V	A	115
	75V	A	90
	110V	A	85
	220V	A	76
IEC max current I_e in DC3-DC5 with $L/R \leq 15\text{ms}$ with 4 poles in series			
	≤24V	A	140
	48V	A	110
	75V	A	110
	110V	A	105
	220V	A	95
Short-time allowable current for 10s (IEC/EN60947-1)			A 760
Protection fuse			
	gG (IEC)	A	160
	aM (IEC)	A	100
Making capacity (RMS value)			A 1200
Breaking capacity at voltage			
	440V	A	1100
	500V	A	775
	690V	A	745
Resistance per pole (average value)			$\text{m}\Omega$ 0.45
Power dissipation per pole (average value)			
	I _{th}	W	8.8
	AC-3	W	4.1
Tightening torque for terminals			
	min	Nm	6
	max	Nm	7
	min	I _{bin}	4.4
	max	I _{bin}	5.2
Tightening torque for coil terminal			
	min	Nm	0.8
	max	Nm	1
	min	I _{bin}	0.59
	max	I _{bin}	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	2420			
Auxiliary contact characteristics					
Thermal current Ith	A	140			
Operations					
Mechanical life	cycles	15000000			
Electrical life	cycles	1400000			
Safety related data					
Performance level B10d according to EN/ISO 13489-1	rated load mechanical load	cycles	1400000 15000000		
AC coil operating					
Rated AC voltage at 50/60Hz	V	400			
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 consumption at 20°C					
of 50/60Hz coil powered at 50Hz	in-rush holding	VA	300 20		
of 50/60Hz coil powered at 60Hz	in-rush holding	VA	275 17		
of 60Hz coil powered at 60Hz	in-rush holding	VA	300 20		
Dissipation at holding ≤20°C 50Hz	W	6.5			
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

Rated operational voltage AC (UL) V 600

General USE

Contactor AC current A 150

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

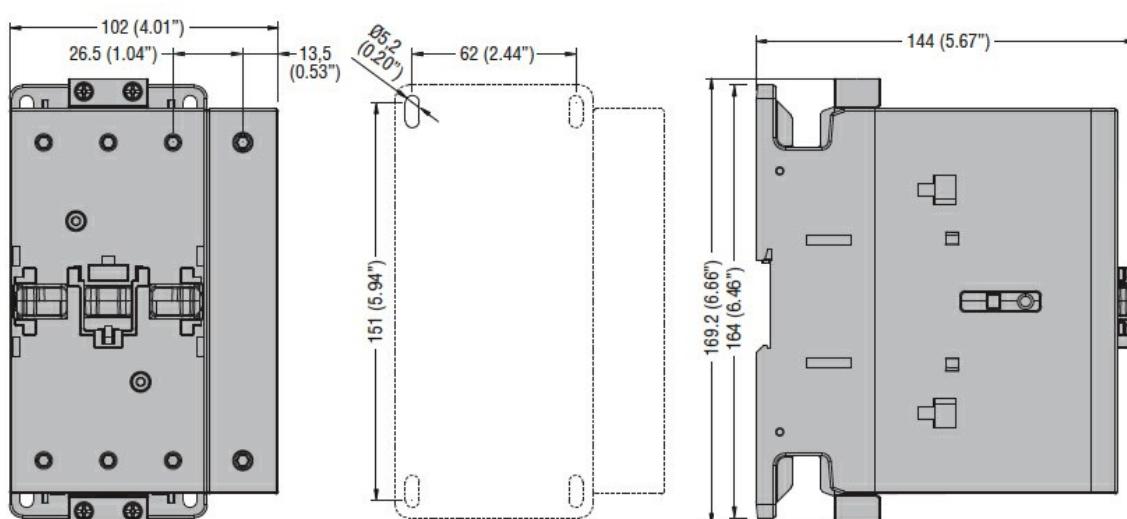
Storage temperature

min	°C	-60
max	°C	+80

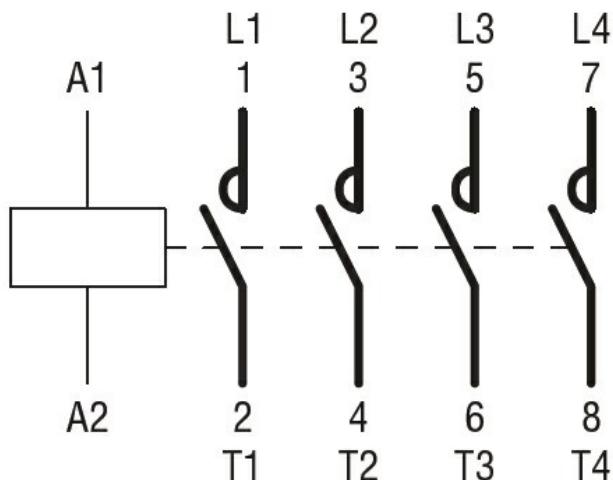
Max altitude

m 3000

Dimensions



Wiring diagrams



Certifications and compliance

Compliance

CSA C22.2 n° 60947-1

CSA C22.2 n° 60947-4-1

IEC/EN/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