



Product designation

Power contactor

Product type designation

BF95

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	140
Operational current I_e	AC-1 (=40°C)	A 140
	AC-1 (=55°C)	A 115
	AC-1 (=70°C)	A 100
	AC-3 (=440V =55°C)	A 95
	AC-4 (400V)	A 45
Rated operational power AC-3 (T=55°C)	230V kW	30
	400V kW	55
	415V kW	55
	440V kW	55
	500V kW	75
	690V kW	90
	1000V kW	45
IEC max current I_e in DC1 with L/R = 1ms with 1 poles in series	=24V A	140
	48V A	140
	75V A	100
	110V A	10
	220V A	–
IEC max current I_e in DC1 with L/R = 1ms with 2 poles in series	=24V A	140
	48V A	140
	75V A	140
	110V A	110
	220V A	12
IEC max current I_e in DC1 with L/R = 1ms with 3 poles in series	=24V A	140
	48V A	140
	75V A	155
	110V A	120
	220V A	125
IEC max current I_e in DC1 with L/R = 1ms with 4 poles in series	=24V A	140
	48V A	140

	75V	A	155
	110V	A	140
	220V	A	140
IEC max current Ie in DC3-DC5 with L/R = 15ms with 1 poles in series			
	=24V	A	140
	48V	A	44
	75V	A	36
	110V	A	6
	220V	A	–
IEC max current Ie in DC3-DC5 with L/R = 15ms with 2 poles in series			
	=24V	A	140
	48V	A	63
	75V	A	60
	110V	A	55
	220V	A	7
IEC max current Ie in DC3-DC5 with L/R = 15ms with 3 poles in series			
	=24V	A	140
	48V	A	115
	75V	A	90
	110V	A	85
	220V	A	76
IEC max current Ie in DC3-DC5 with L/R = 15ms 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)		m?	0.45
Power dissipation per pole (average value)			
	Ith	W	8.8
	AC3	W	4.1
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	mm²	1.5
	max	mm²	70
Flexible c/w lug conductor section			
	min	mm²	1.5
	max	mm²	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
Auxiliary contact characteristics			
Thermal current Ith		A	140
Operations			
Mechanical life		cycles	15000000
Electrical life		cycles	1400000
AC coil operating			
Rated AC voltage at 50/60Hz		V	230
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
			VA 20
of 50/60Hz coil powered at 60Hz		in-rush holding	VA 275
			VA 17
of 60Hz coil powered at 60Hz		in-rush holding	VA 300
			VA 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

Yielded mechanical performance

for three-phase AC motor

200/208V	HP	30
220/230V	HP	30
460/480V	HP	60
575/600V	HP	75

General USE

Contactor

AC current	A	150
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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

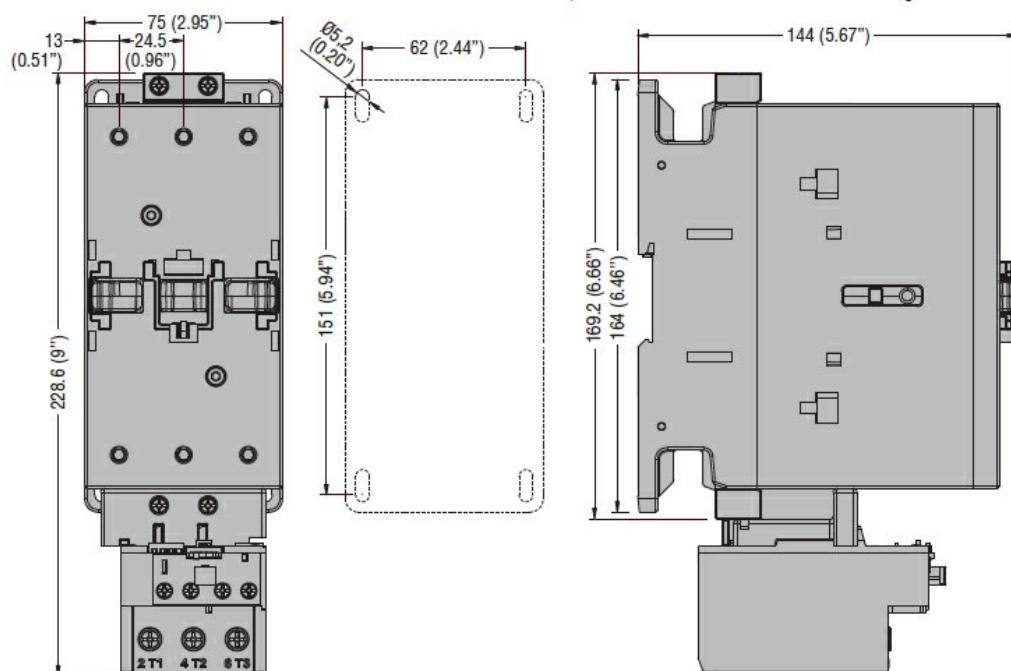
Storage temperature

min	°C	-60
max	°C	+80

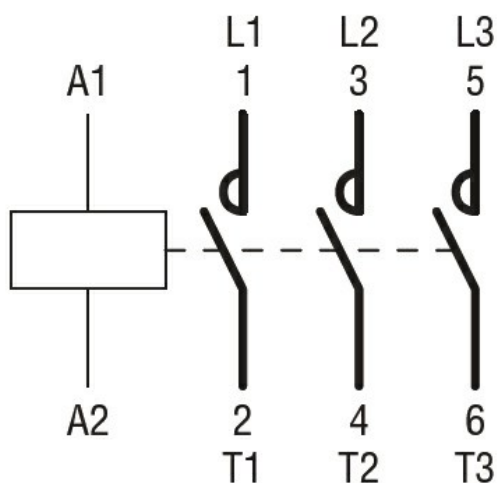
Max altitude

m	3000
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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