



Product designation
Product type designation

Power contactor
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 ($\leq 40^\circ\text{C}$)	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 power AC-3 ($T \leq 55^\circ\text{C}$)	230V	kW 30
	400V	kW 55
	415V	kW 55
	440V	kW 55
	500V	kW 75
	690V	kW 90
	1000V	kW 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		

	≤24V	A	140
	48V	A	140
	75V	A	155
	110V	A	120
	220V	A	125
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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
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IEC max current I _e 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	–
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IEC max current I _e 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
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IEC max current I _e 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
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IEC max current I _e 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
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Short-time allowable current for 10s (IEC/EN60947-1)		A	760
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Protection fuse	gG (IEC)	A	160
	aM (IEC)	A	100
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Making capacity (RMS value)		A	1200
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Breaking capacity at voltage	440V	A	1100
	500V	A	775
	690V	A	745
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Resistance per pole (average value)		mΩ	0.45
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Power dissipation per pole (average value)	I _{th}	W	8.8
	AC-3	W	4.1
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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	Ibin	0.59
max	Ibin	0.74

Conductor section

AWG/Kcmil

max		2/0
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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°
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Fixing

Screw / DIN rail
35mm

Weight

g 2020

Conductor section

AWG/kcmil conductor section

max		2/0
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Auxiliary contact characteristics

Thermal current I_{th}

A 140

Operations

Mechanical life

cycles 15000000

Electrical life

cycles 1400000

AC coil operating

Rated AC voltage at 50/60Hz

V 48

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	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
	holding	VA	20
Dissipation at holding ≤20°C 50Hz		W	6.5

Max cycles frequency

Mechanical operation		cycles/h	1500
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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

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

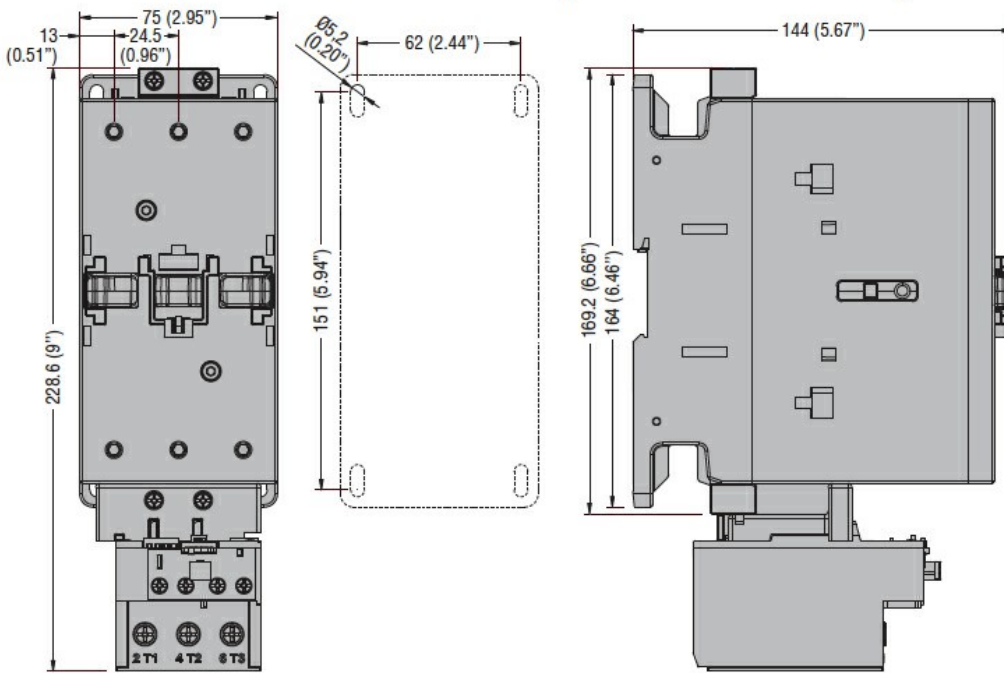
Ambient conditions

Temperature			
Operating temperature			
	min	°C	-50
	max	°C	70

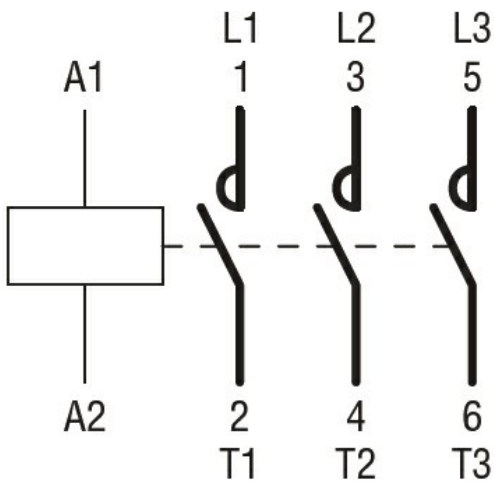
Storage temperature			
	min	°C	-60
	max	°C	+80

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/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