



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 ($\leq 40^\circ C$)	A	140
	AC-1 ($\leq 55^\circ C$)	A	115
	AC-1 ($\leq 70^\circ C$)	A	100
	AC-3 ($\leq 440V \leq 55^\circ C$)	A	95
	AC-4 (400V)	A	45
Rated operational power AC-3 ($T \leq 55^\circ C$)	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 ($T \leq 55^\circ C$)	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 $L/R \leq 1ms$ with 1 poles in series	$\leq 24V$	A	140
	48V	A	140
	75V	A	100
	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	140
	48V	A	140
	75V	A	140
	110V	A	110
	220V	A	12
IEC max current I_e in DC1 with $L/R \leq 1ms$ 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 $L/R \leq 1\text{ms}$ with 4 poles in series	≤24V	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	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

Auxiliary contact characteristics

Thermal current I_{th} 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 cycles 1400000
mechanical load cycles 15000000

AC coil operating

Rated AC voltage at 60Hz V 460

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	VA	300
	holding	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
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Opening NO	max	ms	32
	min	ms	9
	max	ms	24

UL technical data

Rated operational voltage AC (UL)	V	600
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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

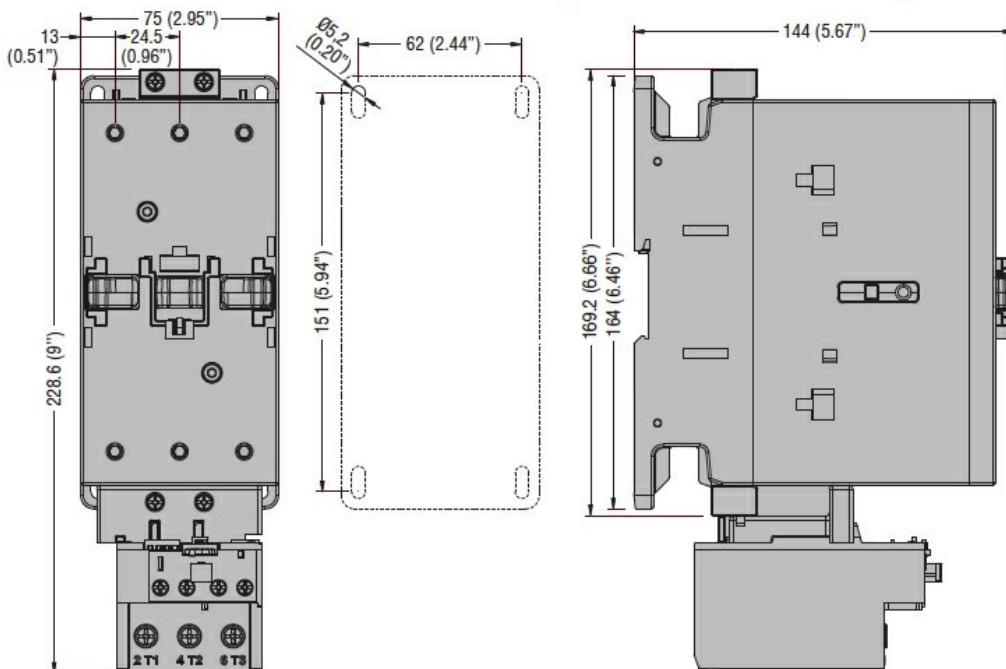
Storage temperature

min	°C	-60
max	°C	+80

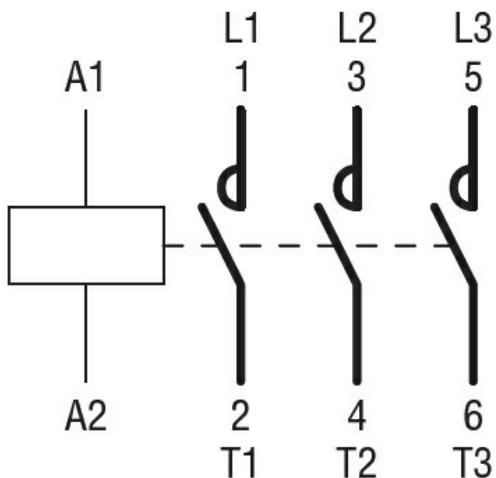
Max altitude

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/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