



Product designation

Power contactor

Product type designation

BF26

**Contact characteristics**

Number of poles	Nr.	4
Rated insulation voltage $U_i$ IEC/EN	V	690
Rated impulse withstand voltage $U_{imp}$	kV	6
Operational frequency	min Hz	25
	max Hz	400
IEC Conventional free air thermal current $I_{th}$	A	45
Operational current $I_e$	AC-1 ( $\leq 40^\circ\text{C}$ )	A 45
	AC-1 ( $\leq 55^\circ\text{C}$ )	A 36
	AC-1 ( $\leq 70^\circ\text{C}$ )	A 32
	AC-3 ( $\leq 440\text{V } \leq 55^\circ\text{C}$ )	A 26
	AC-4 (400V)	A 11.5
Rated operational power AC-1 ( $T \leq 40^\circ\text{C}$ )	230V kW	17
	400V kW	30
	500V kW	37
	690V kW	51
IEC max current $I_e$ in DC1 with $L/R \leq 1\text{ms}$ with 1 poles in series	$\leq 24\text{V}$ A	25
	48V A	21
	75V A	18
	110V A	6
	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	28
	48V A	28
	75V A	25
	110V A	22
	220V A	2
IEC max current $I_e$ in DC1 with $L/R \leq 1\text{ms}$ with 3 poles in series	$\leq 24\text{V}$ A	28
	48V A	28
	75V A	25
	110V A	24
	220V A	20
IEC max current $I_e$ in DC1 with $L/R \leq 1\text{ms}$ with 4 poles in series	$\leq 24\text{V}$ A	28
	48V A	28
	75V A	25
	110V A	24
	220V A	26

IEC max current I<sub>e</sub> in DC3-DC5 with L/R ≤ 15ms with 1 poles in series

≤24V	A	18
48V	A	15
75V	A	13
110V	A	2
220V	A	–

 IEC max current I<sub>e</sub> in DC3-DC5 with L/R ≤ 15ms with 2 poles in series

≤24V	A	20
48V	A	20
75V	A	18
110V	A	13
220V	A	3

 IEC max current I<sub>e</sub> in DC3-DC5 with L/R ≤ 15ms with 3 poles in series

≤24V	A	25
48V	A	25
75V	A	20
110V	A	18
220V	A	19

 IEC max current I<sub>e</sub> in DC3-DC5 with L/R ≤ 15ms with 4 poles in series

≤24V	A	30
48V	A	30
75V	A	25
110V	A	20
220V	A	15

Short-time allowable current for 10s (IEC/EN60947-1)

A	210
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Protection fuse

gG (IEC)	A	50
aM (IEC)	A	32

Making capacity (RMS value)

A	260
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Breaking capacity at voltage

440V	A	208
500V	A	184
690V	A	168

Resistance per pole (average value)

mΩ	2
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Power dissipation per pole (average value)

I <sub>th</sub>	W	4
AC-3	W	1.4

Tightening torque for terminals

min	Nm	2.5
max	Nm	3
min	I <sub>bin</sub>	1.8
max	I <sub>bin</sub>	2.2

Tightening torque for coil terminal

min	Nm	0.8
max	Nm	1
min	I <sub>bin</sub>	0.8
max	I <sub>bin</sub>	0.74

Max number of wires simultaneously connectable

Nr.	2
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Conductor section

AWG/Kcmil

max	6
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Flexible w/o lug conductor section

min	mm <sup>2</sup>	2.5
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		max	mm <sup>2</sup>	16
Flexible c/w lug conductor section				
		min	mm <sup>2</sup>	1
		max	mm <sup>2</sup>	10
Flexible with insulated spade lug conductor section				
		min	mm <sup>2</sup>	1
		max	mm <sup>2</sup>	10
Power terminal protection according to IEC/EN 60529				IP20 when properly wired
<b>Mechanical features</b>				
Operating position				
		normal allowable		Vertical plan ±30°
Fixing				Screw / DIN rail 35mm
Weight			g	665
<b>Operations</b>				
Mechanical life			cycles	20000000
Electrical life			cycles	1600000
<b>Safety related data</b>				
Performance level B10d according to EN/ISO 13489-1				
		rated load	cycles	1600000
		mechanical load	cycles	20000000
EMC compatibility				yes
<b>DC coil operating</b>				
DC rated control voltage			V	48
DC operating voltage				
	pick-up			
		min	%Us	80
		max	%Us	125
	drop-out			
		min	%Us	10
		max	%Us	40
Average coil consumption ≤20°C				
		in-rush	W	5.4
		holding	W	5.4
<b>Max cycles frequency</b>				
Mechanical operation			cycles/h	3600
<b>Operating times</b>				
Average time for Us control				
	in AC			
		Closing NO		
		min	ms	8
		max	ms	24
		Opening NO		
		min	ms	5
		max	ms	15
		Closing NC		
		min	ms	9
		max	ms	20
		Opening NC		
		min	ms	9
		max	ms	17
in DC				

## Closing NO

min	ms	54
max	ms	66

## Opening NO

min	ms	14
max	ms	17

**UL technical data**

Rated operational voltage AC (UL)	V	600
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Full-load current (FLA) for three-phase AC motor		
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at 480V	A	21
at 600V	A	22

Yielded mechanical performance

for single-phase AC motor

110/120V	HP	2
230V	HP	5

for three-phase AC motor

200/208V	HP	7.5
220/230V	HP	7.5
460/480V	HP	15
575/600V	HP	20

General USE

Contactor

AC current	A	45
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Short-circuit protection fuse, 600V

High fault

Short circuit current	kA	100
Fuse rating	A	100
Fuse class	J	

Standard fault

Short circuit current	kA	5
Fuse rating	A	100

**Ambient conditions**

Temperature

Operating temperature

min	°C	-50
max	°C	70

Storage temperature

min	°C	-60
max	°C	80

Max altitude

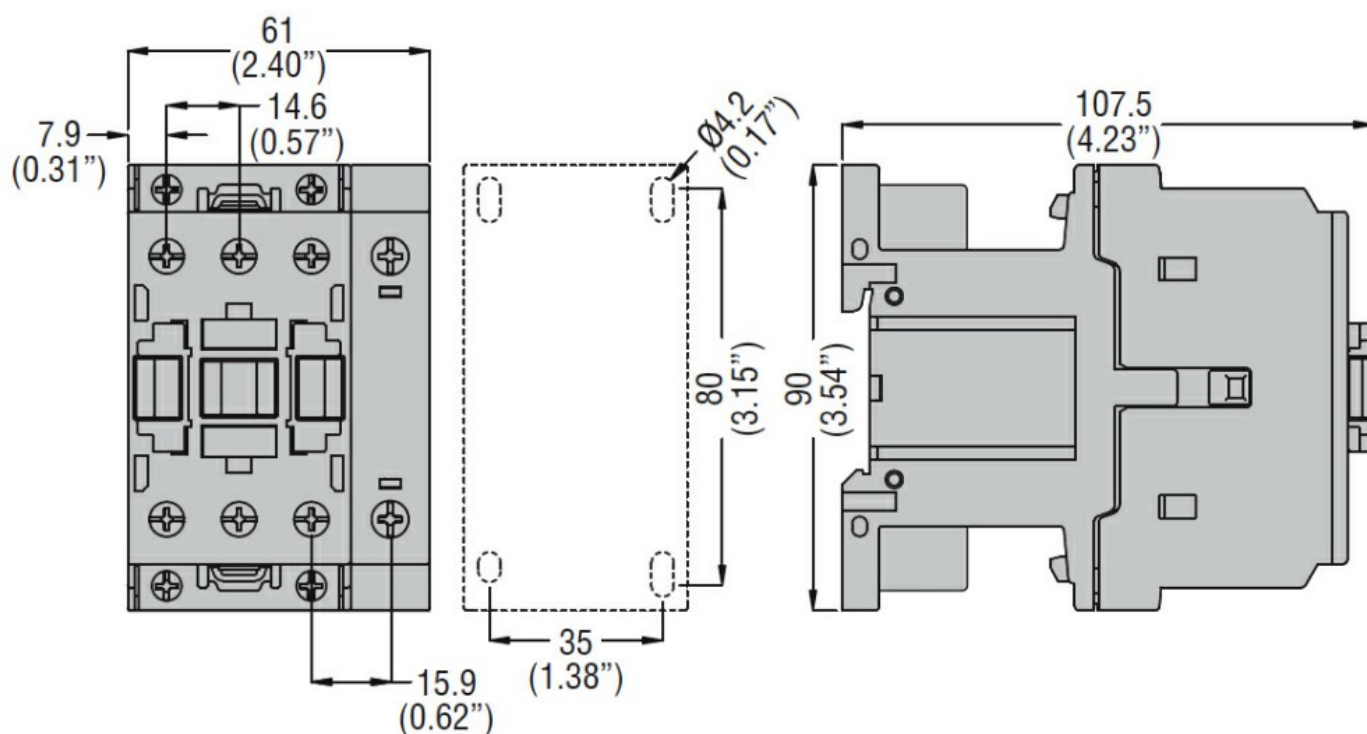
m	3000
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**Resistance & Protection**

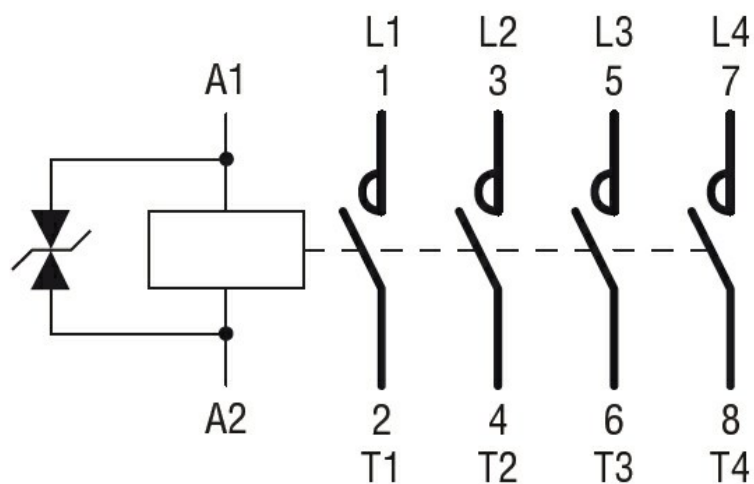
Pollution degree

3

**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