



Product designation	Power contactor		
Product type designation	BF26		
<b>Contact characteristics</b>			
Number of poles	Nr.	4	
Rated insulation voltage U <sub>i</sub> IEC/EN	V	690	
Rated impulse withstand voltage U <sub>imp</sub>	kV	6	
Operational frequency	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current I <sub>th</sub>		A	45
Operational current I <sub>e</sub>			
	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 <sub>e</sub> 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 <sub>e</sub> 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 <sub>e</sub> 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 <sub>e</sub> 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  $I_e$  in DC3-DC5 with  $L/R \leq 15\text{ms}$  with 1 poles in series

$\leq 24\text{V}$	A	18
48V	A	15
75V	A	13
110V	A	2
220V	A	—

IEC max current  $I_e$  in DC3-DC5 with  $L/R \leq 15\text{ms}$  with 2 poles in series

$\leq 24\text{V}$	A	20
48V	A	20
75V	A	18
110V	A	13
220V	A	3

IEC max current  $I_e$  in DC3-DC5 with  $L/R \leq 15\text{ms}$  with 3 poles in series

$\leq 24\text{V}$	A	25
48V	A	25
75V	A	20
110V	A	18
220V	A	19

IEC max current  $I_e$  in DC3-DC5 with  $L/R \leq 15\text{ms}$  with 4 poles in series

$\leq 24\text{V}$	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

Protection fuse

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

Making capacity (RMS value) A 260

Breaking capacity at voltage

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

Resistance per pole (average value)  $\text{m}\Omega$  2

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

Conductor section

AWG/Kcmil	max	6
Flexible w/o lug conductor section	min	mm <sup>2</sup> 2.5

	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		Vertical plan ±30°
	allowable		
Fixing			Screw / DIN rail 35mm
Weight	g		670
<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		220
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
Full-load current (FLA) for three-phase AC motor		
at 480V	A	21
at 600V	A	22

**Yielded mechanical performance**

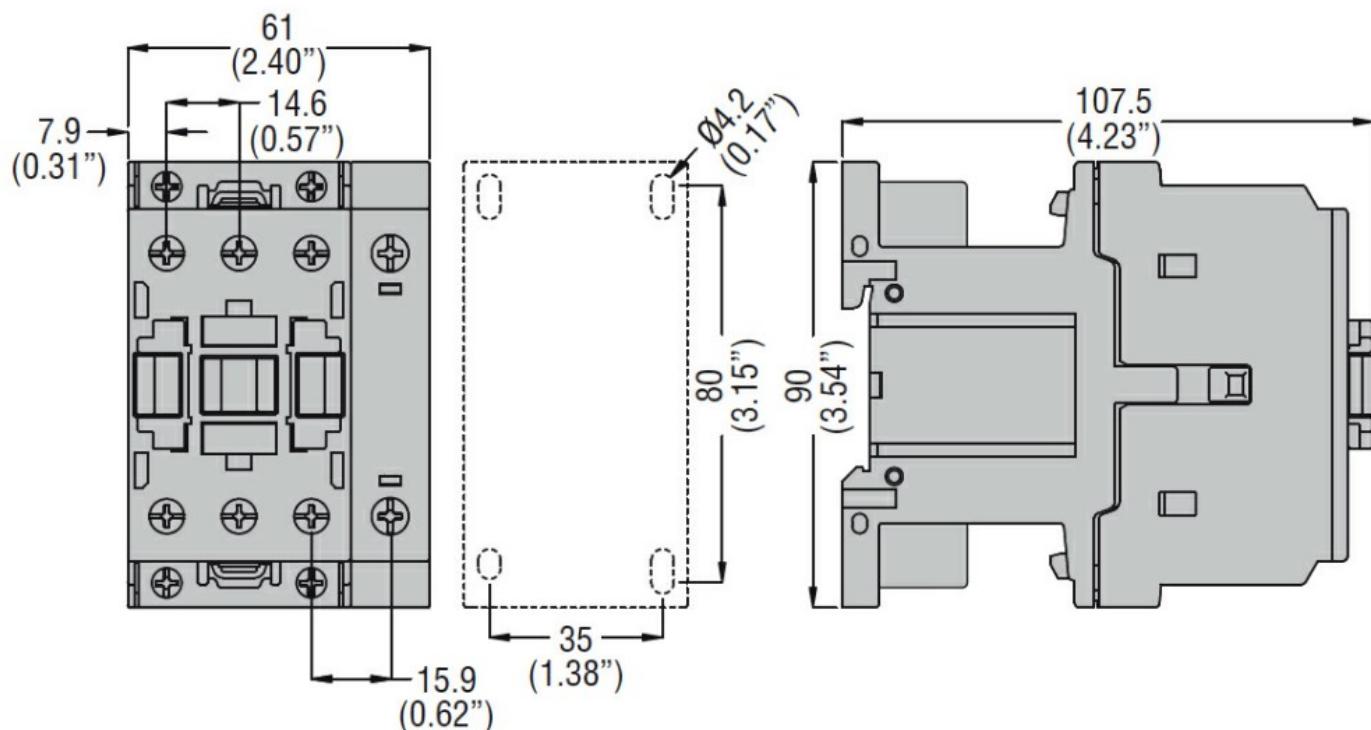
for single-phase AC motor	110/120V	HP	2
	230V	HP	5
for three-phase AC motor	200/208V	HP	7.5
	220/230V	HP	7.5
	460/480V	HP	15
	575/600V	HP	20

**General USE**

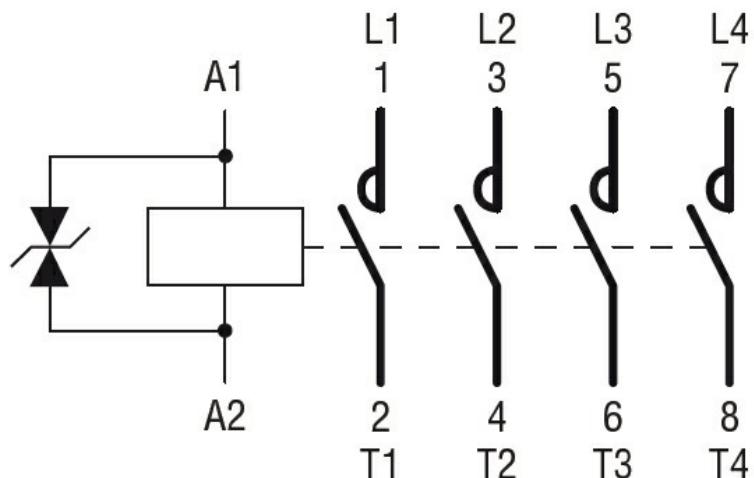
Contactor	AC current	A	45
Short-circuit protection fuse, 600V			
High fault	Short circuit current	kA	100
	Fuse rating	A	100
	Fuse class		J
Standard fault	Short circuit current	kA	5
	Fuse rating	A	100

**Ambient conditions**

Temperature	Operating temperature	min	°C	-50
		max	°C	70
Storage temperature		min	°C	-60
		max	°C	80
Max altitude		m		3000
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