

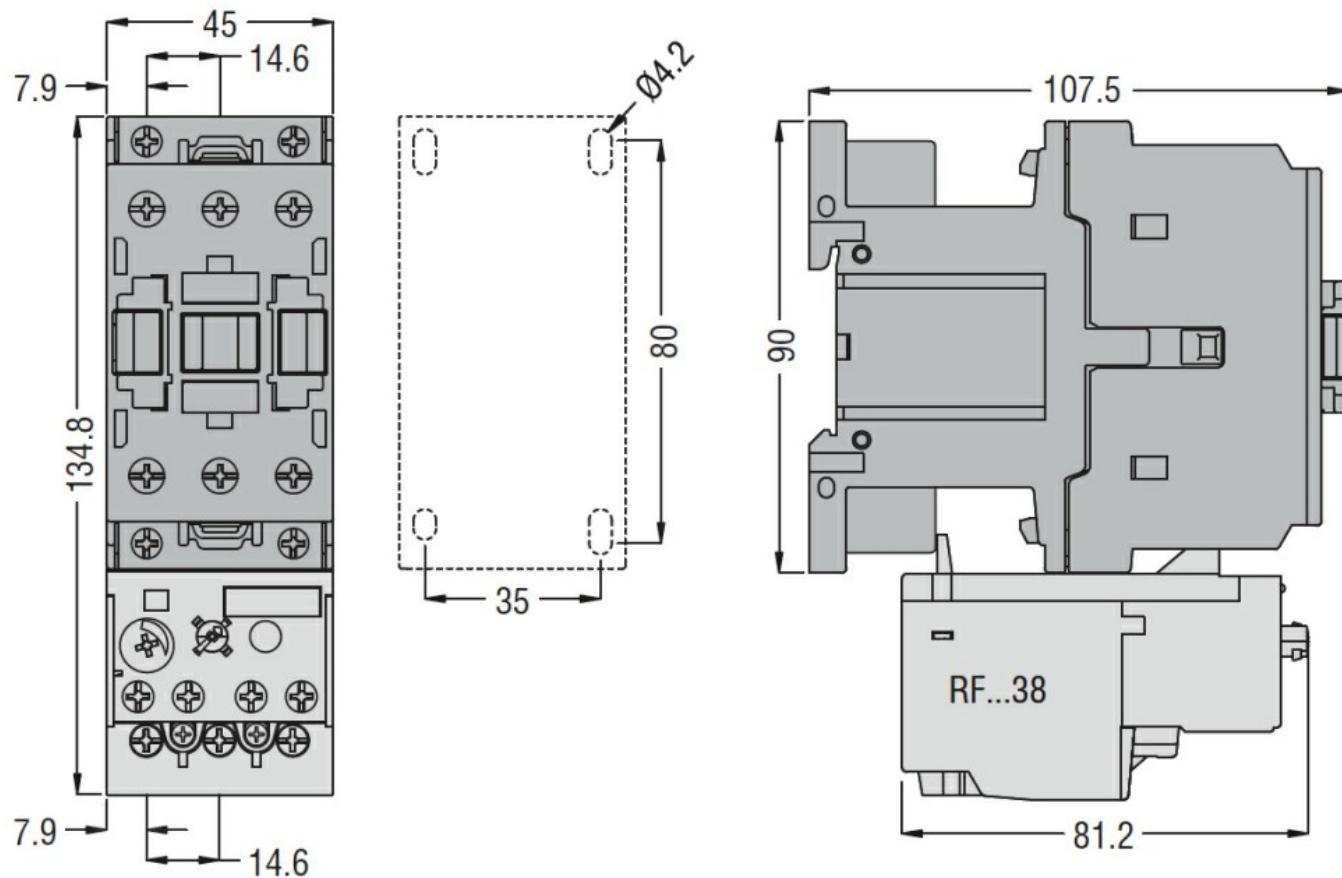


Product designation	Power contactor		
Product type designation	BF26		
Contact characteristics			
Number of poles	Nr.	3	
Rated insulation voltage U_i IEC/EN	V	690	
Rated impulse withstand voltage U_{imp}	kV	6	
Operational frequency	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current I_{th}		A	45
Operational current I_e			
	AC-1 ($\leq 40^\circ C$)	A	45
	AC-1 ($\leq 55^\circ C$)	A	36
	AC-1 ($\leq 70^\circ C$)	A	32
	AC-3 ($\leq 440V \leq 55^\circ C$)	A	26
	AC-4 (400V)	A	11.5
Rated operational power AC-3 ($T \leq 55^\circ C$)	230V	kW	7.3
	400V	kW	13
	415V	kW	14
	440V	kW	14
	500V	kW	15.6
	690V	kW	18.5
Rated operational power AC-1 ($T \leq 40^\circ C$)	230V	kW	17
	400V	kW	30
	500V	kW	37
	690V	kW	51
IEC max current I_e in DC1 with $L/R \leq 1ms$ with 1 poles in series	$\leq 24V$	A	25
	48V	A	21
	75V	A	18
	110V	A	6
	220V	A	—
IEC max current I_e in DC1 with $L/R \leq 1ms$ with 2 poles in series	$\leq 24V$	A	28
	48V	A	28
	75V	A	25
	110V	A	22
	220V	A	2
IEC max current I_e in DC1 with $L/R \leq 1ms$ with 3 poles in series	$\leq 24V$	A	28
	48V	A	28
	75V	A	25
	110V	A	24

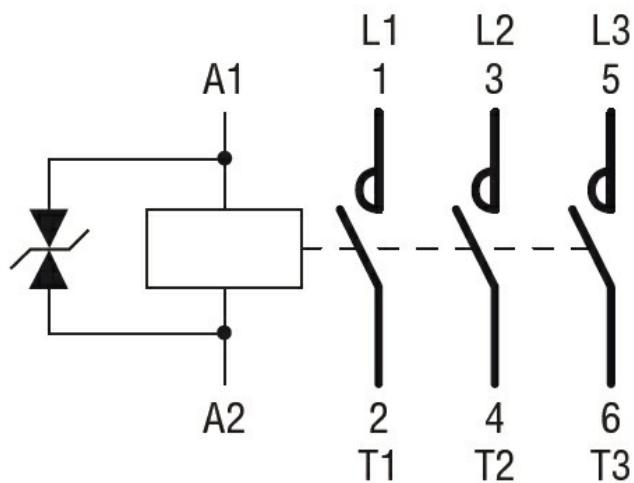
	220V	A	20
IEC max current I_e in DC1 with $L/R \leq 1\text{ms}$ with 4 poles in series			
	≤24V	A	28
	48V	A	28
	75V	A	25
	110V	A	24
	220V	A	26
IEC max current I_e in DC3-DC5 with $L/R \leq 15\text{ms}$ with 1 poles in series			
	≤24V	A	18
	48V	A	15
	75V	A	13
	110V	A	2
	220V	A	—
IEC max current I_e in DC3-DC5 with $L/R \leq 15\text{ms}$ with 2 poles in series			
	≤24V	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			
	≤24V	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			
	≤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
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 _{th}	W	4
	AC-3	W	1.4
Tightening torque for terminals			
	min	Nm	2.5
	max	Nm	3
	min	I _{bin}	1.8
	max	I _{bin}	2.2
Tightening torque for coil terminal			
	min	Nm	0.8
	max	Nm	1
	min	I _{bin}	0.8

	max	Ibin	0.74
Max number of wires simultaneously connectable		Nr.	2
Conductor section			
AWG/Kcmil	max		6
Flexible w/o lug conductor section	min	mm ²	2.5
	max	mm ²	16
Flexible c/w lug conductor section	min	mm ²	1
	max	mm ²	10
Flexible with insulated spade lug conductor section	min	mm ²	1
	max	mm ²	10
Power terminal protection according to IEC/EN 60529			IP20 when properly wired
Mechanical features			
Operating position	normal		Vertical plan
	allowable		±30°
Fixing			Screw / DIN rail 35mm
Weight	g		560
Operations			
Mechanical life	cycles		20000000
Electrical life	cycles		1600000
Safety related data			
Performance level B10d according to EN/ISO 13489-1	rated load	cycles	1600000
	mechanical load	cycles	20000000
EMC compatibility			yes
DC coil operating			
DC rated control voltage	V		12
DC operating voltage			
pick-up	min	%Us	70
	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
Max cycles frequency			
Mechanical operation	cycles/h		3600
Operating times			
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