



Product designation			Power contactor
Product type designation			BF26
Contact characteristics			2. 20
Number of poles		Nr.	4
Rated insulation voltage Ui IEC/EN		V	690
Rated impulse withstand voltage Uimp		kV	6
Operational frequency		100	
operational nequency	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current Ith	IIIdX	A	45
Operational current le			+0
Operational current to	AC-1 (≤40°C)	Α	45
	AC-1 (≤55°C)	A	36
	AC-1 (≤70°C)	A	32
	AC-3 (≤440V ≤55°C)	A	26
	AC-4 (400V)	A	11.5
Rated operational power AC-1 (T≤40°C)	ΛΟ + (+00 )		11.0
reaced operational power AO-1 (1240 O)	230V	kW	17
	400V	kW	30
	500V	kW	37
	690V	kW	51
IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series	030 V	IXVV	<u> </u>
TEO Max outlett to the Bot with Effe a fine with a poles in series	≤24V	Α	25
	48V	A	21
	75V	Α	18
	110V	Α	6
	220V	A	_
IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series			
The max can six to in Bot man 2/1/2 time man 2 poles in cones	≤24V	Α	28
	48V	Α	28
	75V	Α	25
	110V	Α	22
	220V	Α	2
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series			
p p	≤24V	Α	28
	48V	Α	28
	75V	A	25
	110V	Α	24
	220V	Α	20
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series			
	≤24V	Α	28
	48V	Α	28
	75V	A	25
	110V	A	24
	220V	Α	26
	v	- •	-



**ENERGY AND AUTOMATION** 

FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 45A, DC COIL, 220VDC

IEC max current le in D	C3-DC5 with L/R ≤ 15ms with 1 poles in series			
. –	,	≤24V	Α	18
		48V	Α	15
		75V	Α	13
		110V	A	2
		220V	A	_
IFC may current to in D	C2 DC5 with L/D < 15mg with 2 pales in series	220 V	A	
iec max current le in D	C3-DC5 with L/R ≤ 15ms with 2 poles in series	-0.01		
		≤24V	Α	20
		48V	Α	20
		75V	Α	18
		110V	Α	13
		220V	Α	3
IEC max current le in D	C3-DC5 with L/R ≤ 15ms with 3 poles in series			
		≤24V	Α	25
		48V	Α	25
		75V	Α	20
		110V	A	18
		220V	A	19
IFC may a	C2 DCE with 1 /D < 45 with 4 ! ! !	2201	Α	13
IEC max current le in D	C3-DC5 with L/R ≤ 15ms with 4 poles in series		_	
		≤24V	Α	30
		48V	Α	30
		75V	Α	25
		110V	Α	20
		220V	Α	15
Short-time allowable cu	rrent for 10s (IEC/EN60947-1)		Α	210
Protection fuse	,			
		gG (IEC)	Α	50
		aM (IEC)	Α	32
Making capacity (RMS v	value)	aw (ILO)	A	260
			A	200
Breaking capacity at vol	tage	4.401.4		
		440V	Α	208
		500V	Α	184
-		690V	Α	168
Resistance per pole (av	rerage value)		$m\Omega$	2
Power dissipation per per	ole (average value)			
		Ith	W	4
		AC-3	W	1.4
Tightening torque for ter	rminals			
gsig torquo ioi toi	······ <del>·</del>	min	Nm	2.5
			Nm	3
		max		
		min	Ibin	1.8
<del></del>		max	Ibin	2.2
Tightening torque for co	ıl terminal			
		min	Nm	0.8
		max	Nm	1
		min	lbin	0.8
		max	lbin	0.74
Max number of wires sir	multaneously connectable		Nr.	2
Conductor section	,			
	AWG/Kcmil			
	AVVO/AGIIII	may		6
	Flavible w/s has an abset a set of	max		6
	Flexible w/o lug conductor section			0.5
		min	mm²	2.5





# FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 45A, DC COIL, 220VDC

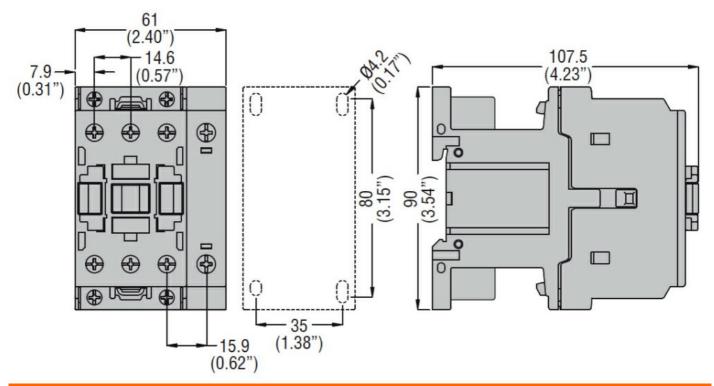
Flexible c/w lug conductor section				
Piezible with insulated spade lug conductor section			mm²	16
Flexible with insulated spade lug conductor section			•	
Flexible with insulated spade lug conductor section   min   mm²   1   max   mm²   1   10     P20 when   properly wired   max   mm²   10     P20 when   properly wired   P20 when   properly wired   P20 when   properly wired   P20 when   P20				
Max			mm²	10
Max		•		4
Page				
Province from that protection according to IEC/EN 60529   Property wired   Property   Property		max	mm-	
Mechanical leatures           Operating position         normal allowable         Vertical plan ±30°           Fixing         Screw / DIN rail 35mm           Weight         g         670           Conductor section         max         6           Operations           Mechanical life         cycles         20000000           Electrical life         cycles         1600000           Safety related data         rated load         cycles         20000000           Performance level B10d according to EN/ISO 13489-1         yes         20000000           EMC compatibility         yes         20000000           BC coil operating         yes         20000000           EMC compatibility         yes         20000000           DC coil operating voltage         yes         20000000           DC coil operating voltage         min         %Us         10           DC operating voltage         pick-up         min         %Us         10           Average coil consumption ≤20°C         in-rush king         W         5.4           Max cycles frequency         yes         40           Mechanical operation         cycles/h         500           Operating times	Power terminal protect	tion according to IEC/EN 60529		
Operating position         normal allowable state of the properties of the	Mechanical features			propony whod
Personal path				
Fixing   Screw / DIN rail   S	1 01	normal		Vertical plan
Priving   g   670		allowable		
Priving   g   670				
Conductor section	Fixing			
AWG/kcmil conductor section   max   6	Weight		g	670
Operations           Mechanical life         cycles         20000000           Electrical life         cycles         1600000           Safety related data           Performance level B10d according to EN/ISO 13489-1         rated load rechanical load cycles         1600000 rechand           Mirror contats according to IEC/EN 609474-4-1         yes         20000000           EMC compatibility         yes         yes           DC rated control voltage         v         200           DC rated control voltage         yes         200           DC operating voltage         min max         %Us         80           Morporut         min max         %Us         10           drop-out         min max         %Us         10           Average coil consumption ≤20°C         in-rush holding         W         5.4           Max cycles frequency         cycles/h         3600           Max cycles frequency         min ms         8           Mechanical operation         cycles/h         3600           Operating times           Average time for Us control         min ms         8	Conductor section		-	
Operations           Mechanical life         cycles         20000000           Electrical life         cycles         1600000           Safety related data         rated load cycles         1600000 cycles         200000000 cycles         20000000 cycles         200000000 cycles         20000000 cycles         200000000 cycles		AWG/kcmil conductor section		
Mechanical life		max		6
Electrical life	Operations			
Performance level B10d according to EN/ISO 13489-1   rated load   cycles   1600000   mechanical load   cycles   200000000	Mechanical life		cycles	20000000
Performance level B10d according to EN/ISO 13489-1           rated load mechanical load cycles         1600000 200000000           Mirror contats according to IEC/EN 609474-4-1         yes           EMC compatibility         yes           DC coil operating         V         220           DC operating voltage         min         %Us         80           pick-up         min         %Us         125           drop-out         min         %Us         10           Average coil consumption ≤20°C         in-rush holding         W         5.4           Max cycles frequency         w         5.4           Mechanical operation         cycles/h         3600           Operating times         Closing NO         min         ms         8           Average time for Us control         min         ms         8           In AC         min         ms         24           Opening NO         min         ms         5           In AC         min         ms         5 <td>Electrical life</td> <td></td> <td>cycles</td> <td>1600000</td>	Electrical life		cycles	1600000
Rated load   Cycles   1600000   mechanical load   Cycles   20000000   mechanical load   Cycles   20000000   mechanical load   Cycles   20000000   mechanical load   Cycles   20000000   mechanical load   Cycles   Cycle	Safety related data			
Mirror contats according to IEC/EN 609474-4-1         mechanical load         cycles         20000000           Mirror contats according to IEC/EN 609474-4-1         yes         DC DC coll operating         yes         DC DC coll operating         V 220         220         DC operating voltage         V 220         DC operating voltage         min         %Us 80         80         Max 9Us 125         Max 9Us 125         Max 9Us 10	Performance level B10	Od according to EN/ISO 13489-1		
Mirror contats according to IEC/EN 609474-4-1  EMC compatibility  Coil operating  DC rated control voltage  DC operating voltage    pick-up		rated load	cycles	1600000
EMC compatibility         yes           DC coil operating         V 220           DC operating voltage         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 holding W 5.4 holding W 5.4           Max cycles frequency         cycles/h 3600           Mechanical operation         cycles/h 3600           Operating times         min ms 8 max ms 24           Average time for Us control in AC         min ms 8 max ms 24           Opening NO         min ms 5 max ms 15           Closing NC         min ms 9		mechanical load	cycles	20000000
DC coil operating         V         220           DC operating voltage         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           Max cycles frequency         w 5.4 holding W 5.4           Mechanical operation         cycles/h 3600           Operating times         min ms 8 max ms 24           Opening NO         min ms 5 max ms 15           Closing NC         min ms 9	Mirror contats according	ng to IEC/EN 609474-4-1		yes
DC rated control voltage         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 max       W       5.4 holding         Max cycles frequency       w       5.4 holding       W       5.4 holding         Mechanical operation       cycles/h       3600       3600         Operating times       Severage time for Us control       min       ms       8 max         Average time for Us control       min       ms       8 max       24         Opening NO       min       ms       5 max       ms       15         Closing NC       min       ms       5 max       ms       15	EMC compatibility			yes
DC operating voltage   pick-up   min   %Us   80   max   %Us   125   drop-out   min   %Us   10   max   %Us   40   Max   max   %Us   40   Max	3			
Pick-up	DC rated control voltage	ge	V	220
min   MUS   80   max   MUS   125	DC operating voltage			
Max   Mus   125		pick-up		
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		min		
min max %Us 10 max %Us 40         Average coil consumption ≤20°C       in-rush W 5.4 holding W 5.4         Max cycles frequency       w 5.4         Mechanical operation       cycles/h 3600         Operating times         Average time for Us control in AC       min ms 8 ms 8 max ms 24         Opening NO       min ms 5 max ms 15         Closing NC       min ms 9			%Us	125
max %Us 40Average coil consumption ≤20°Cin-rush koldingW 5.4 koldingMax cycles frequencyw 5.4Mechanical operationcycles/h 3600Operating timescycles/h 3600Average time for Us control in ACmin ms 8 max ms 24Closing NOmin ms 5 max ms 15Closing NCmin ms 9		•		
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				
In-rush			%Us	40
Max cycles frequency           Mechanical operation         cycles/h         3600           Operating times           Average time for Us control	Average coil consump			_ ,
Max cycles frequency         Cycles/h         3600           Mechanical operation         cycles/h         3600           Operating times           Average time for Us control         min         ms         8           Closing NO         min         ms         8           Max         ms         24           Opening NO         min         ms         5           Closing NC         min         ms         9				
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		holding	W	5.4
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				2000
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			cycles/h	<b>3600</b>
in AC  Closing NO  min ms 8  max ms 24  Opening NO  min ms 5  max ms 15  Closing NC  min ms 9	<u> </u>			
Closing NO  min ms 8  max ms 24  Opening NO  min ms 5  max ms 15  Closing NC  min ms 9	Average time for Us co			
min ms 8 max ms 24  Opening NO  min ms 5 max ms 15  Closing NC  min ms 9				
Opening NO  min ms 5  max ms 24  Opening NO  min ms 5  max ms 15  Closing NC  min ms 9			<b></b> .	0
Opening NO  min ms 5  max ms 15  Closing NC  min ms 9				
min ms 5 max ms 15 Closing NC min ms 9			1118	<b>∠</b> 4
max ms 15 Closing NC min ms 9			me	5
Closing NC min ms 9				
min ms 9			1113	10
		•	ms	9



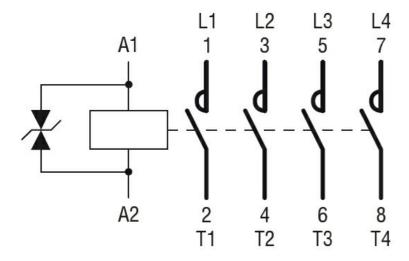
## FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 45A, DC COIL, 220VDC

Max		Opening NC			
Max		, ,	min	ms	9
In DC					
Closing NO		in DC			
Min					
Max a min		Closing IVC	min	me	5.4
Opening NO					
Min		Opening NO	IIIdx	1113	00
Tull-load current (FLA) for three-phase AC motor		Opening NO	min	mc	1.1
Ult technical data   Full-load current (FLA) for three-phase AC motor					
Full-load current (FLA) for three-phase AC motor  at 480V	III. toobnical data		IIIdX	1115	17
A		for three phase AC restor			
Yielded mechanical performance   For single-phase AC motor   110/120V   HP   2   230V   HP   5   5   5   5   5   5   5   5   5	Full-load current (FLA)	for three-phase AC motor	-1.4001/	۸	0.4
Yielded mechanical performance for single-phase AC motor         110/120V HP 2 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         A 45           Short-circuit protection fuse, 600V High fault         Short circuit current Fuse rating A 100 Fuse class J           Standard fault         Short circuit current Fuse rating A 100 Fuse class J           Standard fault         Short circuit current Fuse rating A 100 Fuse class J           Storage temperature         Short circuit current Fuse rating A 100 Fuse rating					
For single-phase AC motor   110/120V			at 600V	А	
110/120V	Yielded mechanical pe				
Standard fault   Short circuit current   KA   5   5   5   5   5   5   5   5   5		for single-phase AC motor			
For three-phase AC motor					
Contactor			230V	HP	5
Contactor		for three-phase AC motor			
A60/480V			200/208V	HP	7.5
Standard fault   Stan			220/230V	HP	7.5
Contactor			460/480V	HP	15
Contactor			575/600V	HP	20
AC current	General USE				
AC current		Contactor			
Short-circuit protection fuse, 600V   High fault   Short circuit current   KA   100   Fuse rating   Fuse class   J   Standard fault   Short circuit current   KA   5   Fuse rating   A   100   Fuse class   J   Standard fault   Short circuit current   Fuse rating   A   100   Fuse rating   A   1			AC current	Α	45
High fault	Short-circuit protection	n fuse, 600V			
Short circuit current   Fuse rating   Fuse rating   Fuse class   Fuse rating					
Fuse rating Fuse class   J   Tuse rating Fuse class   J   Tuse rating Fuse class   J   Tuse rating   Justic current   Justi		r ng. radic	Short circuit current	kΔ	100
Fuse class   J					
Standard fault   Short circuit current   KA   5   Fuse rating   A   100			_	,,	
Short circuit current Fuse rating		Standard fault	1 430 01433		
Fuse rating A 100		Standard radit	Short circuit current	k۸	5
Ambient conditions           Temperature					
Temperature   Operating temperature   min °C -50 max °C 70	Ambient conditions		i use raility	^	100
Operating temperature           min max         °C or 70           Storage temperature         min or C or 60           max         °C or 80           Max altitude         m or 3000           Resistance & Protection         stance 3000           Pollution degree         3					
min max         °C 70           Storage temperature         min °C -60 max °C 80           Max altitude         m 3000           Resistance & Protection         3	remperature	Operating temperature			
max         °C         70           Storage temperature           min         °C         -60           max         °C         80           Max altitude         m         3000           Resistance & Protection           Pollution degree         3		Operating temperature	and the	°C	50
Storage temperature           min max         °C or -60 max         -60 max         80           Max altitude         m 3000           Resistance & Protection         Storage temperature           Pollution degree         3					
min max         °C -60 max         -60 max         °C 80           Max altitude         m 3000           Resistance & Protection         3           Pollution degree         3		<u> </u>	max		/ U
Max altitudemax°C80Mesistance & Protectionm3000Pollution degree3		Storage temperature		0.0	00
Max altitude m 3000 Resistance & Protection Pollution degree 3					
Resistance & Protection Pollution degree 3			max		
Pollution degree 3				m	3000
		on			
Dimensions					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





FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 45A, DC COIL, 220VDC

ETIM 8.0

EC000066 -Power contactor, AC switching