

# FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 45A, AC COIL 50/60HZ, 400VAC, 4NC



Product designation Product type designation			Power contactor BF26
Contact characteristics			DF20
Number of poles		Nr.	4
Rated insulation voltage Ui IEC/EN		V	690
Rated impulse withstand voltage Uimp		kV	6
Operational frequency		10.0	
operational modulonsy	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current Ith		Α	45
Operational current le			
	AC-1 (≤40°C)	Α	45
	AC-1 (≤55°C)	Α	36
	AC-1 (≤70°C)	Α	32
	AC-3 (≤440V ≤55°C)	Α	26
	AC-4 (400V)	Α	11.5
Rated operational power AC-1 (T≤40°C)			
	230V	kW	17
	400V	kW	30
	500V	kW	37
	690V	kW	51
Short-time allowable current for 10s (IEC/EN60947-1)		Α	210
Protection fuse			
	gG (IEC)	Α	50
	aM (IEC)	Α	32
Making capacity (RMS value)		Α	260
Breaking capacity at voltage			
	440V	Α	208
	500V	Α	184
	690V	A	168
Resistance per pole (average value)		mΩ	2
Power dissipation per pole (average value)			
	Ith	W	4
The tracks of the control of	AC-3	W	1.4
Tightening torque for terminals			0.5
	min	Nm	2.5
	max	Nm	3
	min	lbin Ibin	1.8 2.2
Tightening torque for coil terminal	max	ווטוו	۷.۷
riginering torque for con terminal	min	Nim	0.8
	min	Nm Nm	0.8 1
	max		
Max number of wires simultaneously connectable	IIIdX		
Max number of wires simultaneously connectable	min max	Ibin Ibin Nr.	0.8 0.74 2



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Conductor coction			
Conductor section	AWG/Kcmil		
	max		6
	Flexible w/o lug conductor section		
	min	mm²	2.5
	Flouible a/w lug conductor section	mm²	16
	Flexible c/w lug conductor section min	mm²	1
	max	mm²	10
	Flexible with insulated spade lug conductor section		
	min	mm²	1
	max	mm²	10
Power terminal prote	ction according to IEC/EN 60529		IP20 when properly wired
Mechanical features			properly wired
Operating position			
	normal		Vertical plan
	allowable		±30°
ixing			Screw / DIN rail 35mm
Veight		g	520
Conductor section	ANNO (homeil ann duatan an ation		
	AWG/kcmil conductor section max		6
Operations	IIIdA		0
Mechanical life		cycles	20000000
Electrical life		cycles	1600000
Safety related data			
Performance level B1	10d according to EN/ISO 13489-1		400000
	rated load mechanical load	cycles	1600000
		cycles	20000000
Mirror contats accord		cycles	20000000 YES
Mirror contats accord	ling to IEC/EN 609474-4-1	cycles	20000000 YES yes
		cycles	YES
EMC compatibility AC coil operating Rated AC voltage at \$	ling to IEC/EN 609474-4-1 50/60Hz	cycles	YES
EMC compatibility AC coil operating Rated AC voltage at \$	ling to IEC/EN 609474-4-1 50/60Hz	,	YES yes
EMC compatibility AC coil operating Rated AC voltage at \$	sof 50/60Hz coil powered at 50Hz	,	YES yes
EMC compatibility AC coil operating Rated AC voltage at \$	of 50/60Hz coil powered at 50Hz pick-up	V	YES yes 400
EMC compatibility AC coil operating Rated AC voltage at \$	sof 50/60Hz coil powered at 50Hz	,	YES yes
EMC compatibility AC coil operating Rated AC voltage at \$	of 50/60Hz coil powered at 50Hz pick-up min	V %Us %Us	YES yes 400 80 110
EMC compatibility AC coil operating Rated AC voltage at \$	of 50/60Hz  of 50/60Hz coil powered at 50Hz pick-up min max drop-out min	V %Us %Us %Us	YES yes 400 80 110 20
EMC compatibility AC coil operating Rated AC voltage at \$	of 50/60Hz  of 50/60Hz coil powered at 50Hz pick-up min max drop-out min max	V %Us %Us	YES yes 400 80 110
EMC compatibility AC coil operating Rated AC voltage at \$	of 50/60Hz coil powered at 50Hz pick-up min max drop-out min max of 50/60Hz coil powered at 60Hz	V %Us %Us %Us	YES yes 400 80 110 20
EMC compatibility AC coil operating Rated AC voltage at \$	of 50/60Hz  of 50/60Hz coil powered at 50Hz pick-up min max drop-out min max	%Us %Us %Us %Us %Us	YES yes 400 80 110 20
EMC compatibility AC coil operating Rated AC voltage at \$	of 50/60Hz  of 50/60Hz coil powered at 50Hz pick-up  min max drop-out min max of 50/60Hz coil powered at 60Hz pick-up	V %Us %Us %Us	YES yes 400 80 110 20 55
EMC compatibility AC coil operating Rated AC voltage at \$	of 50/60Hz  of 50/60Hz coil powered at 50Hz pick-up min max drop-out min max of 50/60Hz coil powered at 60Hz pick-up min min max	%Us %Us %Us %Us %Us	YES yes 400 80 110 20 55
EMC compatibility AC coil operating	of 50/60Hz  of 50/60Hz coil powered at 50Hz pick-up min max drop-out min max  of 50/60Hz coil powered at 60Hz pick-up min max  of 50/60Hz coil powered at 60Hz pick-up min max  of 50/60Hz min max min max min max min	%Us %Us %Us %Us %Us %Us	YES yes 400 80 110 20 55 85 110 20
EMC compatibility AC coil operating Rated AC voltage at 6 AC operating voltage	of 50/60Hz  of 50/60Hz coil powered at 50Hz pick-up min max drop-out min max  of 50/60Hz coil powered at 60Hz pick-up min max  of 50/60Hz coil powered at 60Hz pick-up min max drop-out min max	%Us %Us %Us %Us %Us	YES yes 400 80 110 20 55
EMC compatibility AC coil operating Rated AC voltage at 9 AC operating voltage	of 50/60Hz  of 50/60Hz coil powered at 50Hz pick-up min max drop-out min max of 50/60Hz coil powered at 60Hz pick-up min max of 50/60Hz coil powered at 60Hz pick-up min max drop-out min max drop-out min max	%Us %Us %Us %Us %Us %Us	YES yes 400 80 110 20 55 85 110 20
EMC compatibility AC coil operating Rated AC voltage at \$	of 50/60Hz  of 50/60Hz coil powered at 50Hz pick-up min max drop-out min max  of 50/60Hz coil powered at 60Hz pick-up min max  of 50/60Hz coil powered at 60Hz pick-up min max drop-out min max	%Us %Us %Us %Us %Us %Us	YES yes 400 80 110 20 55 85 110 20



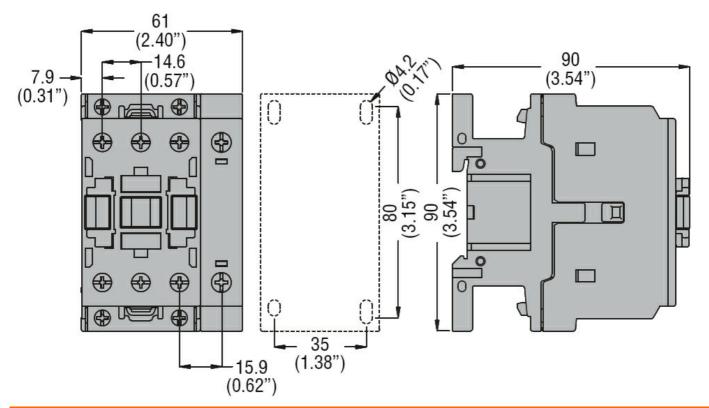


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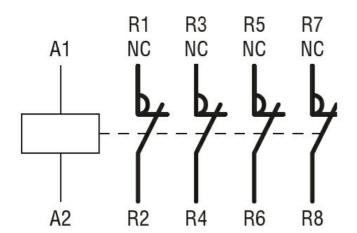
	of 50/60Hz coil powered at 60Hz			
		in-rush	VA	70
		holding	VA	6.5
	of 60Hz coil powered at 60Hz	9		
	01 001 12 0011 powerod at 001 12	in-rush	VA	75
		holding	VA	9
Dissipation at holding	\$20°C 50Hz	noiding	W	2.5
Max cycles frequency				
Mechanical operation			cycles/h	3600
Operating times				
Average time for Us co	ontrol			
	in AC			
	Closing NO			
	G.33g	min	ms	8
		max	ms	24
	Opening NO			
	opening rec	min	ms	5
		max	ms	15
	Closing NC	HICK	1113	.0
	Closing ive	min	ms	11
		max	ms	29
	Opening NC	IIIdx	1113	25
	Opening No	min	ms	6
				14
UL technical data		max	ms	14
	for three phase AC meter			
rull-load current (FLA)	for three-phase AC motor	-+ 400\/	Δ.	0.4
		at 480V	A	21
V'.	· · · · · · · · · · · · · · · · · · ·	at 600V	Α	22
Yielded mechanical pe				
	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	Α	45
Ambient conditions				
Temperature				
	Operating temperature			
		min	°C	-50
		max	°C	70
	Storage temperature			
	<b>J</b>	min	°C	-60
		max	°C	80
Max altitude		····on	m	3000
Resistance & Protection	on			
Pollution degree	·····			3
Dimensions				
<del>Dimonolorio</del>				

**ENERGY AND AUTOMATION** 

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### 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