

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



Contact characteristics         Number of poles       Nr. 4       4         Rated insulation voltage Ui IEC/EN       V 690         Rated insulation voltage Uimp       kV 6         Operational frequency       min Hz 25 max       25 max         IEC Conventional free air thermal current Ith       A 45         Operational current Ie       AC-1 (≤40°C) A 36 AC-1 (≤55°C) A 36 AC-1 (≤55°C) A 36 AC-1 (≤55°C) A 26 AC-1 (≤400°C) A 26 AC-4 (4000°C) A 11.5         Rated operational power AC-1 (T≤40°C)       230V kW 17 400°C kW 30 500°C kW 37 690°C kW 37 690°C kW 51         IEC max current Ie in DC1 with L/R ≤ 1ms with 1 poles in series       ≤24V A 25 48 A 21 75°C A 18 110°C A 6 220°C A - 18 110°C A 6 220°C A - 20°C A 220°C A - 20°C A 22°C	Product designation Product type designation			Power contactor BF26
Rated insulation voltage Ui IEC/EN  Rated impulse withstand voltage Uimp    My   6	Contact characteristics			
Rated impulse withstand voltage Ulimp	Number of poles		Nr.	4
Rated impulse withstand voltage Ulimp	Rated insulation voltage Ui IEC/EN		V	690
Min	Rated impulse withstand voltage Uimp		kV	6
IEC Conventional free air thermal current lth	Operational frequency			
IEC Conventional free air thermal current lth Operational current le		min	Hz	25
Operational current le  AC-1 (≤40°C)		max	Hz	400
AC-1 (≤40°C) A 45 AC-1 (≤55°C) A 36 AC-1 (≤55°C) A 32 AC-3 (≤440V ≤55°C) A 26 AC-4 (400V) A 11.5  Rated operational power AC-1 (T≤40°C)  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  ≤24V A 25 48V A 21 75V A 18 110V A 6 220V A -  IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series  ≤24V A 28 48V A 28 75V A 25 110V A 22 220V A 2  IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series  ≤24V A 28 75V A 25 110V A 22 220V A 2  IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series  ≤24V A 28 75V A 25 110V A 22 220V A 2  IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series  ≤24V A 28 48V A 28 75V A 25 110V A 20 IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series	IEC Conventional free air thermal current Ith		Α	45
AC-1 (≤55°C)	Operational current le			
AC-1 (≤55°C)	·	AC-1 (≤40°C)	Α	45
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)  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  ≤24V A 25 48V A 21 75V A 18 110V A 6 220V A -  IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series  ≤24V A 28 48V A 28 75V A 25 110V A 26 110V A 22 220V A 2  IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series  ≤24V A 28 48V A 28 75V A 25 110V A 22 220V A 2  IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series  ≤24V A 28 48V A 28 75V A 25 110V A 24 220V A 20  IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series  ≤24V A 28 48V A 28 75V A 25 110V A 24 220V A 20  IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series		· · ·	Α	36
AC-3 (≤440V ≤55°C) A 26 AC-4 (400V) A 11.5  Rated operational power AC-1 (T≤40°C)  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  ≤24V A 25 48V A 21 75V A 18 110V A 6 220V A −  IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series  ≤24V A 28 48V A 28 75V A 25 110V A 22 220V A 2  IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series  ≤24V A 28 48V A 28 75V A 25 110V A 22 220V A 2  IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series  ≤24V A 28 48V A 28 75V A 25 110V A 24 220V A 20  IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series  ≤24V A 28 48V A 28 75V A 25 110V A 24 220V A 20  IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series		,	Α	32
Rated operational power AC-1 (T≤40°C)  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  ≤24V A 25 48V A 21 75V A 18 110V A 6 220V A -  IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series  ≤24V A 28 48V A 28 75V A 25 110V A 22 220V A 2  IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series  ≤24V A 28 48V A 28 75V A 25 110V A 2 220V A 2  IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series  ≤24V A 28 48V A 28 75V A 25 110V A 24 220V A 20  IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series  ≤24V A 28 48V A 28 75V A 25 110V A 24 220V A 20  IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series		,	Α	26
230V kW 17   400V kW 30   500V kW 37   690V kW 51		•	Α	11.5
A00V   kW   30   500V   kW   37   690V   kW   51	Rated operational power AC-1 (T≤40°C)	,		
Soov   kW   37   690V   kW   51		230V	kW	17
Section   Sec		400V	kW	30
Section   Sec		500V	kW	37
\$\leq 24V		690V	kW	51
48V	IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series			
T5V		≤24V	Α	25
110V		48V	Α	21
EC max current le in DC1 with L/R ≤ 1ms with 2 poles in series   ≤24V		75V	Α	18
Section   Sec		110V	Α	6
≤24V		220V	Α	_
	IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series			
T5V   A   25   110V   A   22   220V   A   2   220V   A   28   48V   A   28   48V   A   25   110V   A   24   220V   A   20   220V   A   20   220V   A   28   48V   A   28   75V   A   25   110V   A   24   24   24   24   24   24   25   110V   A   24   24   24   24   24   24   24		≤24V	Α	28
110V   A   22   220V   A   2   2   220V   A   2   2   2   2   2   2   2   2   2		48V	Α	28
EC max current le in DC1 with L/R ≤ 1ms with 3 poles in series   ≤24V		75V	Α	25
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series  ≤24V A 28 48V A 28 75V A 25 110V A 24 220V A 20  IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series  ≤24V A 28 48V A 28 48V A 28 48V A 28 75V A 25 110V A 25 110V A 24		110V	Α	22
≤24V   A   28   48V   A   28   75V   A   25   110V   A   24   220V   A   20   220V   A   20   224V   A   28   48V   A   28   48V   A   28   48V   A   28   75V   A   25   110V   A   24   25   110V   A   24   24   24   24   25   24   25   24   25   24   25   24   25   24   25   24   25   24   24		220V	Α	2
≤24V   A   28   48V   A   28   75V   A   25   110V   A   24   220V   A   20   220V   A   20   224V   A   28   48V   A   28   48V   A   28   48V   A   28   75V   A   25   110V   A   24   25   110V   A   24   24   24   24   25   24   25   24   25   24   25   24   25   24   25   24   25   24   24	IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series			
T5V   A   25   110V   A   24   220V   A   20		≤24V	Α	28
110V A 24 220V A 20  IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series  ≤24V A 28 48V A 28 75V A 25 110V A 24		48V	Α	28
220V A 20  IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series  ≤24V A 28 48V A 28 75V A 25 110V A 24		75V	Α	25
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series  ≤24V A 28 48V A 28 75V A 25 110V A 24		110V	Α	24
≤24V A 28 48V A 28 75V A 25 110V A 24		220V	Α	20
48V A 28 75V A 25 110V A 24	IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series			
75V A 25 110V A 24		≤24V	Α	28
110V A 24		48V	Α	28
		75V	Α	25
220V A 26		110V	Α	24
		220V	Α	26



# FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 45A, AC COIL 50/60HZ, 24VAC

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 ! i i	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





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	max	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 protec	tion according to IEC/EN 60529		IP20 when properly wired
Mechanical features			properly wired
Operating position			
	normal		Vertical plan
	allowable		±30°
			Screw / DIN rail
Fixing			35mm
Weight		g	512
Conductor section			
	AWG/kcmil conductor section		
	max		6
Operations			
Mechanical life		cycles	20000000
Electrical life		cycles	1600000
Safety related data		, , , , ,	
	0d according to EN/ISO 13489-1		
	rated load	cycles	1600000
	mechanical load	cycles	20000000
Mirror contats according	ng to IEC/EN 609474-4-1	.,	yes
EMC compatibility			yes
AC coil operating			
Rated AC voltage at 5	0/60Hz	V	24
AC operating voltage			
1 0 0	of 50/60Hz coil powered at 50Hz		
	pick-up		
	, , min	%Us	80
	max	%Us	110
	drop-out		
	min	%Us	20
	max	%Us	55
	of 50/60Hz coil powered at 60Hz		
	pick-up		
	, , min	%Us	85
	max	%Us	110
	drop-out		
	min	%Us	20
	max	%Us	55
AC average coil consu			
-	of 50/60Hz coil powered at 50Hz		
	in-rush	VA	75
	holding	VA	9
	of 50/60Hz coil powered at 60Hz		
	in-rush	VA	70
	holding	VA	6.5
	of 60Hz coil powered at 60Hz		
	in-rush	VA	75



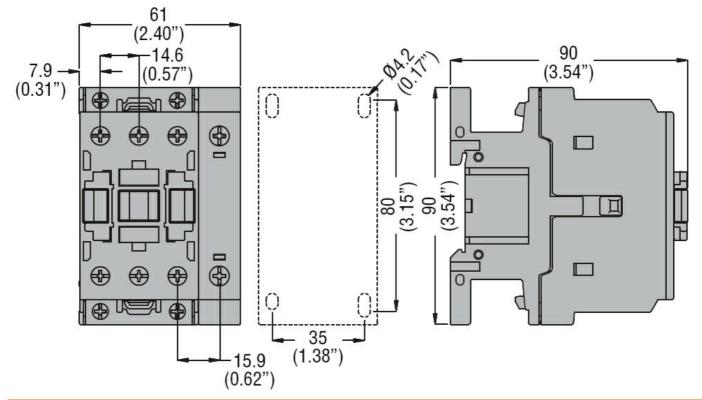
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Discipation at holding	20°C FOLI-	holding	VA W	2.5
Dissipation at holding ≤ Max cycles frequency	20°C 50HZ		VV	2.5
Mechanical operation			cycles/h	3600
Operating times			Cycles/II	3000
Average time for Us co	ntrol			
Average unie ioi os co	in AC			
	Closing NO			
	Closing NO	min	ma	8
		min	ms ms	24
	Opening NO	max	1115	24
	Opening NO	min	ms	5
				15
	Closing NC	max	ms	10
	Closing NC	min	<b></b> .	0
		min	ms	9
	Opening NC	max	ms	20
	Opening NC		<b>~</b>	0
		min	ms	9
III to obvioal data		max	ms	17
UL technical data	for three phase AOt			
ruii-ioad current (FLA)	for three-phase AC motor	-1.40017	Λ	04
		at 480V	A	21
<del></del>		at 600V	Α	22
Yielded mechanical per				
	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
Short-circuit protection	fuse, 600V			_
	High fault			
		Short circuit current	kA	100
		Fuse rating	Α	100
		Fuse class		J
	Standard fault			
		Short circuit current	kA	5
		Fuse rating	Α	100
Ambient conditions				
Temperature				
•	Operating temperature			
	. •	min	°C	-50
		max	°C	70
	Storage temperature			
	- · · · · · · · · · · · · · · · · · · ·	min	°C	-60
		max	°C	80
Max altitude		max	m	3000
Resistance & Protectio	n			
Pollution degree	·····			3
- Olladon acgree				

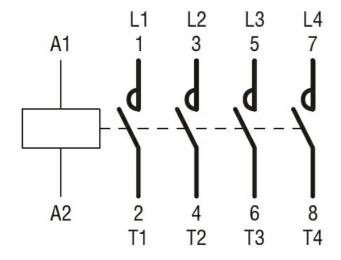
**ENERGY AND AUTOMATION** 

FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 45A, AC COIL 50/60HZ, 24VAC

#### **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



### BF26T4A024

FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 45A, AC COIL 50/60HZ, 24VAC

ETIM 8.0

EC000066 -Power contactor, AC switching