

# THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 25A, AC COIL 50/60HZ, 24VAC, 1NO AUXILIARY CONTACT



Product designation Product type designation			Power contactor BF25
Contact characteristics			
Number of poles		nr.	3
Rated insulation voltage Ui		V	690
Rated impulse withstand voltage Uimp		kV	6
Operating frequency			
	Operational frequency min	Hz	25
	Operational frequency max	Hz	400
Conventional free air thermal current Ith		Α	32
Operating current			
	Operational current AC1 (≤40°C)	Α	32
	Operational current AC3 (≤440V ≤55°C)	Α	25
	Operational current AC4 (400V)	Α	10
Rated operational power AC1 (T≤40°C)	. ,		
. , , , ,	230V	kW	12
	400V	kW	21
	500V	kW	26
	690V	kW	36
Rated operational power AC3 (T≤55°C)			
, ,	230V	kW	7
	400V	kW	12.5
	415V	kW	13.4
	440V	kW	13.4
	500V	kW	15
	690V	kW	11
Short-time allowable current for 10s (IEC/EN60947	7-1)	Α	200
Protection fuse	•		
	gG (IEC)	Α	50
	aM (IEC)	Α	25
Making capacity (RMS value)	· · ·	Α	250
Breaking capacity at voltage			
- · · · · ·	Breaking capacity 440V	Α	200
	Breaking capacity 500V	Α	184
	Breaking capacity 690V	Α	102
Resistance per pole (average value)	<u> </u>	mΩ	2.5
Power dissipation per pole (average value)			
	ower dissipation pole (average value) Ith	W	2.6
	AC3	W	1.6
Tightening torque for terminals			
-	min	Nm	1.5
	max	Nm	1.8
	min	lbft	1.1
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		min	Nm	0.8
		max	Nm	1
		min	lbft	0.8
		max	lbft	0.74
max number of wires s	imultaneously connectable		nr.	2
Conductor section	<u> </u>			
	AWG			
		min		16
		max		10
	Flexible w/o lug conductor section			
		min	mm²	1
		max	mm²	6
	Flexible c/w lug conductor section			
	. ioniale of it lag conductor coolien	min	mm²	1
		max	mm²	4
	Flexible with insulated spade lug conductor section			·
	Trexible with inediated epade rag confederal econom	min	mm²	1
		max	mm²	4
Power terminal protect	tion according to IEC/EN 60529	Пах		IP20 when wired
Auxiliary contact chara				ii 20 when whea
Type of contact	otoristics			1 NO
Thermal current Ith			Α	10
	nianation		^	A600 - P600
IEC/EN 60947-5-1 des			Λ	
Operational current AC			Α	32
Operating current AC1	5	0001		
		230V	Α	3
		400V	Α	1.9
		500V	Α	1.4
Operating current DC1	2			
		110V	Α	5.7
Operating current DC1	3			
		24V	Α	5.7
		48V	Α	2.9
		60V	Α	2.3
		110V	۸	Screw / DIN rail
		1100	Α	35mm
		125V	Α	0.6
		220V	Α	0.2
		600V	Α	1.2
Ambient conditions				
Temperature				
•	Operating temperature			
		min	°C	-50
		max	°C	70
	Storage temperature			
	· ·	min	°C	-60
		max	°C	80
Max altitude			m	3000
Operating position				
operating position		normal		Vertical plan
		allowable		±30°
		anowabie		Screw / DIN rail
Mounting				35mm
Weight			α	0.36
**Olgili			g	0.00



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Operations				
Mechanical life			Cycles	20000000
Electrical life			Cycles	1200000
Safety related data				
Performance level B1	0d according to EN/ISO 13489-1			
		rated load	Cicli	1200000
	150/511000/514	mechanical load	Cicli	20000000
	ng to IEC/EN 609474-4-1			yes
EMC compatibility				yes
AC coil operating				
AC operating voltage	of FO/COLLT poil noward at FOLLT			
	of 50/60Hz coil powered at 50Hz pick-up			
	ρισκ-αρ	min	%Us	0.8
		max	%Us	1.1
	drop-out	max	7000	
	u. op 0 u.	min	%Us	0.2
		max	%Us	0.55
	of 50/60Hz coil powered at 60Hz			
	pick-up			
		min	%Us	0.85
		max	%Us	1.1
	drop-out			
		min	%Us	0.2
		max	%Us	0.55
	of 60Hz coil powered at 60Hz			
	pick-up		0/11-	0.0
		min	%Us	0.8
	drop out	max	%Us	1.1
	drop-out	min	%Us	0.2
		max	%Us	0.55
AC operating voltage		max	7000	0.00
to operating voltage	of 50/60Hz coil powered at 50Hz			
	01 00/00112 0011 poworod dt 00112	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
		holding	VA	9
Dissipation at holding			W	2.5
Max cycles frequency				
Mechanical operations	5		Cycles/h	3600
Operating times				
Average time for Us o				
	in AC			
	Closing NO	_		
	5.55mig 115			U
	Closing Ito	min	ms	8
	-	min max	ms	24
	Opening NO			

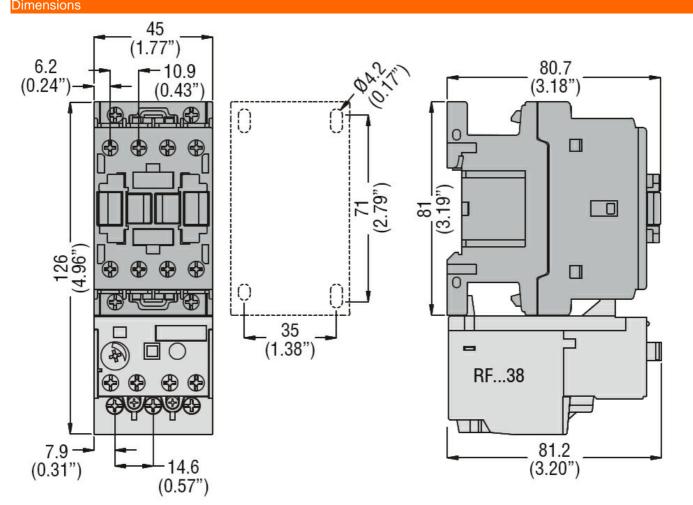


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Closing NC			
	min	ms	14
	max	ms	28
Opening NC			
	min	ms	7
	max	ms	18
UL technical data			
Full-load current (FLA) for three-phase AC motor			
	at 480V	Α	21
	at 600V	Α	17
Yielded mechanical performance			
for single-phase AC motor			
	at 110/120V	hp	2
	at 230V	hp	3
for three-phase AC motor			
	at 200/208V	hp	7.5
	at 220/230V	hp	7.5
	at 460/480V	hp	15
	at 575/600V	hp	15
Contact rating of auxiliary contacts according to UL			A600 - P600
General USE			

Contactor

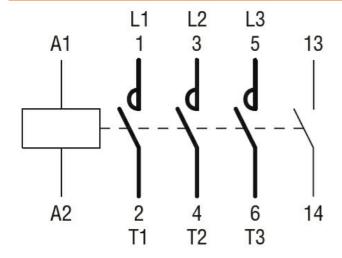
	AC current	А	32
Other features			
Pollution degree			3



**ENERGY AND AUTOMATION** 

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## Wiring diagrams



#### Certifications and compliance

Certifications

CSA C22.2 n° 60947-1

CSA C22.2 n° 60947-4-1

IEC/EN 60947-1

IEC/EN 60947-4-1

UL 60947-1

UL 60947-4-1

Compliance

CCC

cULus

EAC

### ETIM 6 classification

EC000066 - Power contactor, AC switching