





Product designation Product type designation			Power contactor BF25
Contact characteristics			
Number of poles		nr.	3
Rated insulation voltage Ui IEC/EN		V	690
Rated impulse withstand voltage Uimp		kV	6
Operational frequency			
	min	Hz	25
	max	Hz	400
Conventional free air thermal current Ith IEC/EN		Α	32
Operational current le			
•	AC-1 (≤40°C)	Α	32
	AC-3 (≤440V ≤55°C)	Α	25
	AC-4 (400V)	Α	10
Rated operational power AC-1 (T≤40°C)			
. ,	230V	kW	12
	400V	kW	21
	500V	kW	26
	690V	kW	36
Rated operational power AC-3 (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/EN60947-1)		Α	200
Protection fuse			
	gG (IEC)	Α	50
	aM (IEC)	Α	25
Making capacity (RMS value)		Α	250
Breaking capacity at voltage			
	440V	Α	200
	500V	Α	184
	690V	Α	102
Resistance per pole (average value)		mΩ	2.5
Power dissipation per pole (average value)			
	Ith	W	2.6
	AC3	W	1.6
Tightening torque for terminals			
	min	Nm	1.5
	max	Nm	1.8
	min	lbin	1.1
	max	lbin	1.5





		min	Nm	0.8
		max	Nm	1
		min	lbft	0.8
		max	lbft	0.74
Max number of wires	simultaneously connectable		nr.	2
Conductor section				
	AWG			
		/kcmil min		16
		/kcmil max		10
	Flexible w/o lug conductor section	, norm max		
	Tioxible W/o lag conductor cocuer	min	mm²	1
		max	mm²	6
	Flexible c/w lug conductor section	max		
	r lexible c/w lug corludctor section	min	mm²	1
		max	mm²	4
	Clavible with insulated and delivered		111111	4
	Flexible with insulated spade lug co		2	4
		min	mm²	1
		max	mm²	4
	ction according to IEC/EN 60529			IP20 when wired
Auxiliary contact chara	acteristics			
Type of contact				1 NO
Thermal current Ith			Α	10
IEC/EN 60947-5-1 de	_			A600 - P600
Operational current le	e AC-1 (≤40°C)		Α	32
Operating current AC	15			_
		230V	Α	3
		400V	Α	1.9
		500V	Α	1.4
Operating current DC	12			
. 0		110V	Α	5.7
Operating current DC	13			
		24V	Α	5.7
		48V	Α	2.9
		60V	A	2.3
			^	Screw / DIN rail
		110V	Α	35mm
		125V	Α	0.6
		220V	A	0.2
		600V	A	1.2
Ambient conditions		800 V	A	1.2
Temperature	Operating to the state of			
	Operating temperature		۰.	50
		min	°C	-50 -70
		max	°C	70
	Storage temperature		2.0	22
		min	°C	-60
		max	°C	80
Max altitude			m	3000
Operational position				
		Operating position normal		Vertical plan
		Operating position allowable		±30°
Fixing				Screw / DIN rail 35mm
Weight			g	0.356
			-	





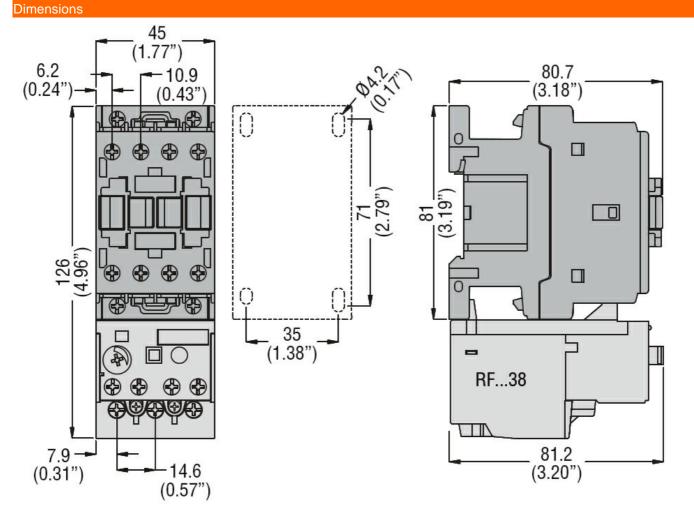
Operations				
Mechanical life			Cycles	20000000
Electrical life			Cycles	1200000
Safety related data				
Performance level B10	d according to EN/ISO 13489-1			
		rated load	Cicli	1200000
		mechanical load	Cicli	20000000
Mirror contats according	ng to IEC/EN 609474-4-1			yes
EMC compatibility				yes
AC coil operating				
AC operating voltage				
	of 50/60Hz coil powered at 50Hz			
	pick-up			
		min	%Us	8.0
		max	%Us	1.1
	drop-out			
		min	%Us	0.2
		max	%Us	0.55
	of 50/60Hz coil powered at 60Hz			
	pick-up	<u>.</u>	0/11	0.05
		min	%Us	0.85
	1	max	%Us	1.1
	drop-out	u. • .	0/11-	0.0
		min	%Us	0.2
	of COLLE acil nowared at COLLE	max	%Us	0.55
	of 60Hz coil powered at 60Hz			
	pick-up	min	%Us	0.8
		max	%Us	1.1
	drop-out	IIIax	/003	1.1
	arop out	min	%Us	0.2
		max	%Us	0.55
AC operating voltage		max	7000	0.00
rto oporating voltage	of 50/60Hz coil powered at 50Hz			
	01 00/001 12 0011 poworod at 001 12	in-rush	VA	75
		holding	VA	9
	of 50/60Hz coil powered at 60Hz		•	
	35. 55. <u>2</u> 55 po 5. 64 61 65. 12	in-rush	VA	70
		holding	VA	6.5
	of 60Hz coil powered at 60Hz	- 3		
	,	in-rush	VA	75
		holding	VA	9
Dissipation at holding :	≤20°C 50Hz		W	2.5
Max cycles frequency				
Mechanical operations			Cycles/h	3600
Operating times				
Average time for Us co	ontrol			
	in AC			
	Closing NO			
	•	min	ms	8
		max	ms	24
	Opening NO)		
		min	ms	10
		max	ms	20



	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 mo	tor		
	at 480V	Α	21
	at 600V	Α	17
Yielded mechanical performance for			
for single-phase AC m	notor		
	Yielded mechanical performance 110/120V hp		2
	Yielded mechanical performance 230V	hp	3
for three-phase AC me	otor		
	Yielded mechanical performance 200/208V	hp	7.5
	Yielded mechanical performance 220/230V	hp	7.5
	Yielded mechanical performance 460/480V	hp	15
	Yielded mechanical performance 575/600V	hp	15
Contact rating of auxiliary contacts according to UL			A600 - P600
General USE			

Contactor

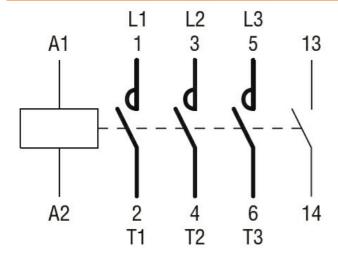
	AC current	А	32
Other features			
Pollution degree			3



ENERGY AND AUTOMATION

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 25A, AC COIL 60HZ, 120VAC, 1NO AUXILIARY CONTACT

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