



THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 25A, AC COIL 60HZ, 575VAC, 1NC AUXILIARY CONTACT



Product designation			Power contactor
Product type designation			BF25
Contact characteristics		Nia	2
Number of poles		Nr.	3
Rated insulation voltage Ui IEC/EN		V	690
Rated impulse withstand voltage Uimp		kV	6
Operational frequency	•		0.5
	min	Hz	25
150 O	max	Hz	400
IEC Conventional free air thermal current Ith		Α	32
Operational current le	10.4 (.4000)		
	AC-1 (≤40°C)	Α	32
	AC-1 (≤55°C)	Α	26
	AC-1 (≤70°C)	A	23
	AC-3 (≤440V ≤55°C)	A	25
D. () () () () () () () () () (AC-4 (400V)	Α	10
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
Rated operational power AC-1 (T≤40°C)	0001/		4.0
	230V	kW	12
	400V	kW	21
	500V	kW	26
150	690V	kW	36
IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series	.0.11.4		•
	≤24V	A	20
	48V	A	18
	75V	A	18
	110V	A	6
150 to in DO4 with 1/D < 4 with 01 inin	220V	Α	
IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series	40 AV	•	22
	≤24V	A	23
	48V	A	23
	75V	A	23
	110V	A	16
150	220V	Α	
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series	40.01	Α.	00
	≤24V	A	23
	48V	A	23
	75V	A	23
	110V	Α	18





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	220V	Α	12
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series			
·	≤24V	Α	_
	48V	Α	_
	75V	Α	_
	110V	Α	_
	220V	Α	_
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series			
The max carrent to in Boo Boo with Ent = Tome with 1 poles in conce	≤24V	Α	15
	48V	A	13
	75V	A	13
	110V	A	2
150	220V	Α	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series	.0.0.4		4.0
	≤24V	Α	18
	48V	Α	18
	75V	Α	16
	110V	Α	10
	220V	Α	2
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series			
	≤24V	Α	22
	48V	Α	22
	75V	Α	18
	110V	Α	15
	220V	Α	8
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series			
The max carrent to in 200 200 mai 2/(= 10me mai 1 perso in come	≤24V	Α	_
	48V	A	_
	75V	A	_
	110V	A	_
	220V		_
Chart time allowable assurant for 40a (IEC/ENCO047.4)	220 V	A	200
Short-time allowable current for 10s (IEC/EN60947-1)		Α	200
Protection fuse	0 (150)		
	gG (IEC)	Α	50
	aM (IEC)	A	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
	AC-3	W	1.6
Tightening torque for terminals			
G G I I I I I I I I I I I I I I I I I I	min	Nm	1.5
	max	Nm	1.8
	min	Ibin	1.1
		Ibin	1.5
Tightoning torque for coil terminal	max	וווטו	1.0
Tightening torque for coil terminal	t. ·	N I	0.0
	min	Nm	0.8
	max	Nm	1
	min	lbin	0.8





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		max	Ibin	0.74
	simultaneously connectable		Nr.	2
Conductor section				
	AWG/Kcmil			
	=	max		10
	Flexible w/o lug conductor section		2	
		min	mm²	1
		max	mm²	6
	Flexible c/w lug conductor section		•	
		min	mm²	1
		max	mm²	4
	Flexible with insulated spade lug conductor section	_		
		min	mm²	1
		max	mm²	4
Power terminal prote	ction according to IEC/EN 60529			IP20 when
	5			properly wired
Mechanical features				
Operating position				\/o#ical =!-
		normal		Vertical plan ±30°
		allowable		
Fixing				Screw / DIN rail 35mm
Maight				360
Weight			g	300
Conductor section	ANAIC/Levellers Levels and Committee			
	AWG/kcmil conductor section			4.0
A !!!		max		10
Auxiliary contact cha	racteristics		^	4.0
Thermal current Ith			A	10
EC/EN 60947-5-1 d				A600 - P600
Operating current AC	715	0001		•
		230V	A	3
		400V	A	1.9
		500V	A	1.4
Operating current DC	712			
		110V	Α	5.7
Operating current DO	213			
		24V	Α	5.7
		48V	Α	2.9
		60V	Α	2.3
			Α	1.25
		110V		
		125V	Α	1.1
		125V 220V	A A	0.55
		125V	Α	
_ ·		125V 220V	A A A	0.55 0.2
Mechanical life		125V 220V	A A A cycles	0.55 0.2 20000000
Mechanical life Electrical life		125V 220V	A A A	0.55 0.2
Mechanical life Electrical life Safety related data		125V 220V	A A A cycles	0.55 0.2 20000000
Mechanical life Electrical life Safety related data	10d according to EN/ISO 13489-1	125V 220V	A A A cycles	0.55 0.2 20000000
Mechanical life Electrical life Safety related data	10d according to EN/ISO 13489-1	125V 220V	A A A cycles	0.55 0.2 20000000
Mechanical life Electrical life Safety related data	-	125V 220V 600V	A A A cycles	0.55 0.2 20000000 1200000
	-	125V 220V 600V rated load	A A A cycles cycles	0.55 0.2 20000000 1200000
Mechanical life Electrical life Safety related data Performance level B	me	125V 220V 600V rated load	A A A cycles cycles	0.55 0.2 20000000 1200000 1200000 20000000





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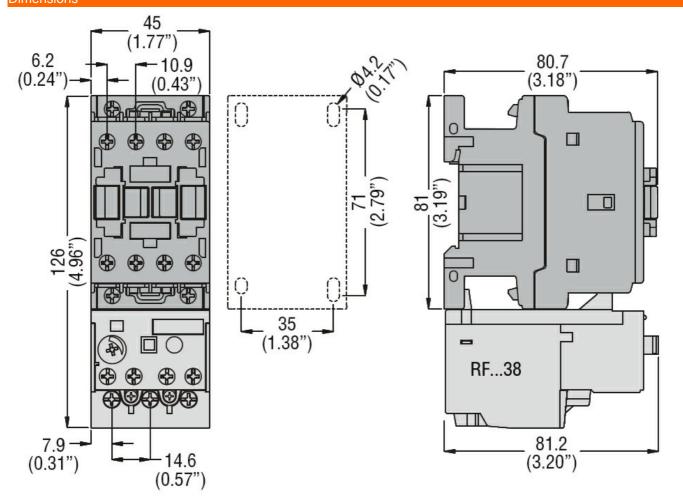
Rated AC voltage at 60Hz				V	575
AC operating voltage					
of	60Hz coil powered at				
		pick-up			
			min	%Us	80
		_	max	%Us	110
		drop-out			
			min	%Us	20
A O "			max	%Us	55
AC average coil consumpti		0011			
of	60Hz coil powered at	60Hz	in month	١/٨	75
			in-rush	VA	75
Dia-in-ti	0.5011-		holding	VA	9
Dissipation at holding ≤20°	C 50HZ			W	2.5
Max cycles frequency				avalaa/b	2000
Mechanical operation				cycles/h	3600
Operating times					
Average time for Us contro					
In A	AC	Closing NO			
		Closing NO	min	m 0	0
			min	ms ms	8 24
		Opening NO	max	1115	24
		Opening NO	min	ms	10
			max	ms	20
		Closing NC	Παλ	1113	20
		Closing NC	min	ms	14
			max	ms	28
		Opening NC	max	1110	20
		opening 110	min	ms	7
			max	ms	18
UL technical data					
Full-load current (FLA) for	three-phase AC moto	r			
,	•		at 480V	Α	21
			at 600V	Α	17
Yielded mechanical perform	mance				
	single-phase AC mo	tor			
	5 ,		110/120V	HP	2
			230V	HP	3
for	three-phase AC mot	or			_
	•		200/208V	HP	7.5
			220/230V	HP	7.5
			460/480V	HP	15
			575/600V	HP	15
General USE					
Co	ontactor				
			AC current	Α	32
Au	xiliary contacts				
			AC voltage	V	600
			AC current	Α	10
			DC voltage	V	250
			DC current	Α	1
Short-circuit protection fus-	e, 600V				
Hiç	gh fault				





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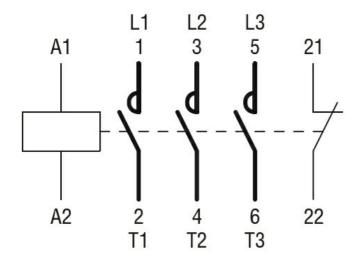
		Short circuit current	kA	100
		Fuse rating	Α	60
		Fuse class		J
Standard f	ault			
		Short circuit current	kA	5
		Fuse rating	Α	100
Contact rating of auxiliary contacts	according to UL			A600 - P600
Ambient conditions				
Temperature				
Operating	temperature			
		min	°C	-50
		max	°C	70
Storage te	emperature			
		min	°C	-60
		max	°C	80
Max altitude			m	3000
Resistance & Protection				
Pollution degree				3
Dimensions				



Wiring diagrams

ENERGY AND AUTOMATION

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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