



Product designation			Power contactor
Product type designation			BF40
Contact characteristics			
Number of poles		nr.	3
Rated insulation voltage Ui		V	1000
Rated impulse withstand voltage Uimp		kV	8
Operating frequency			
	Operational frequency min	Hz	25
	Operational frequency max	Hz	400
Conventional free air thermal current Ith		Α	70
Operating current			
	Operational current AC1 (≤40°C)	Α	70
	Operational current AC3 (≤440V ≤55°C)	Α	40
	Operational current AC4 (400V)	Α	24
Rated operational power AC1 (T≤40°C)			
	230V	kW	26
	400V	kW	46
	500V	kW	58
	690V	kW	79
Rated operational power AC3 (T≤55°C)			
	230V	kW	11
	400V	kW	18.5
	415V	kW	22
	440V	kW	22
	500V	kW	22
	690V	kW	30
	1000V	kW	18.5
Short-time allowable current for 10s (IEC/EN60947-1)			400
Protection fuse			
	gG (IEC)	Α	100
	aM (IEC)	Α	50
Making capacity (RMS value)		Α	400
Breaking capacity at voltage			
<u>.</u>	Breaking capacity 440V	Α	320
	Breaking capacity 500V	Α	265
	Breaking capacity 690V	Α	256
Resistance per pole (average value)	<u> </u>	mΩ	0.8
Power dissipation per pole (average value)			
	Power dissipation pole (average value) Ith	W	3.9
	AC3	W	1.3
Tightening torque for terminals		<u> </u>	-
2	min	Nm	4
	max	Nm	5
	min	lbft	2.95
	max	lbft	3.69
	IIIdA	1011	0.00



Tightening torque for co	oil terminal			
		min	Nm	0.8
		max	Nm	1
		min	lbft	8.0
		max	lbft	0.74
max number of wires s	imultaneously connectable		nr.	2
Conductor section				
	AWG			
		min		14
		max		2
	Flexible w/o lug conductor section			
	3 11 13	min	mm²	1.5
		max	mm²	35
	Flexible c/w lug conductor section			
	Tioxible 6, wing conductor coolien	min	mm²	1.5
		max	mm²	35
Power terminal protect	ion according to IEC/EN 60529	IIIdx	111111	IP20 front
Auxiliary contact charact	-			11 20 110111
Operational current AC			А	70
Operational current AC			А	10
Operating current DC1	3			Canana / DIM nail
		110V	Α	Screw / DIN rail
A malai a mata a a madisti a ma				35mm
Ambient conditions				
Temperature				
	Operating temperature		0.0	
		min	°C	-40
	2	max	°C	70
	Storage temperature			
		min	°C	-50
		max	°C	80
Max altitude			m	3000
Operating position				
		normal		Vertical plan
		allowable		±30°
Mounting				Screw / DIN rail
				35mm
Weight			g	1.06
Operations				
Mechanical life			Cycles	15000000
Electrical life			Cycles	1500000
Safety related data			·	
	od according to EN/ISO 13489-1			
	3	rated load	Cicli	1500000
		mechanical load	Cicli	15000000
Mirror contats according	ng to IEC/EN 609474-4-1	moonamou ioda	0.000	yes
EMC compatibility	ig to 120/211 000-17-7-1			yes
AC coil operating				y 0.3
AC operating voltage	-t 50/0011			
	of 50/60Hz coil powered at 50Hz			
	pick-up		0/1/	
		min	%Us	0.8
		max	%Us	1.1
	drop-out			





. = 2 / 2 2 1 1 11	1	max	%Us	≤0.75 Us min
of 50/60Hz coil p				
	ріск-ир	min	0/116	0.8
				1.1
	dron-out	max	/003	1.1
	drop out	max	%Us	0.75
		max	7000	00
of 50/60Hz coil p	owered at 50Hz			
от со, сот сот р	- 1 1 1 1 1 1 1 1.	in-rush	VA	40130
			VA	1.34.4
of 50/60Hz coil p	owered at 60Hz			
-		in-rush	VA	40130
		holding	VA	1.34.4
≤20°C 50Hz			W	12.5
ge				
		min	V	20
pick-up				
		min	%Us	0.8
		max	%Us	1.10
drop-out				
				0.2
10000		max	%Us	0.55
on ≤20°C			101	00 405
				60125
		nolding	VV	1.72.3
			Cycloo/b	1500
			Cycles/II	1 1300
ontrol				
111710	Closing NO			
	3.33g . 13	min	ms	12
		max	ms	28
	Opening NO	max	ms	28
	Opening NO	max min	ms ms	
	Opening NO			8 22
in DC	Opening NO	min	ms	8
in DC	Opening NO Closing NO	min	ms	8
in DC	, -	min	ms	8
in DC	Closing NO	min max	ms ms	8 22
in DC	, -	min max min max	ms ms	8 22 40 85
in DC	Closing NO	min max min max min	ms ms ms ms	8 22 40 85 20
in DC	Closing NO	min max min max	ms ms ms	8 22 40 85
	Closing NO Opening NO	min max min max min	ms ms ms ms	8 22 40 85 20
in DC	Closing NO Opening NO	min max min max min max	ms ms ms ms	8 22 40 85 20 55
	Closing NO Opening NO	min max min max min max	ms ms ms ms ms	8 22 40 85 20 55
) for three-phase A	Closing NO Opening NO	min max min max min max	ms ms ms ms	8 22 40 85 20 55
) for three-phase Ad	Closing NO Opening NO C motor	min max min max min max	ms ms ms ms ms	8 22 40 85 20 55
) for three-phase A	Closing NO Opening NO C motor	min max min max min max at 480V at 600V	ms ms ms ms ms A	8 22 40 85 20 55 40 32
) for three-phase Ad	Closing NO Opening NO C motor	min max min max min max	ms ms ms ms ms	8 22 40 85 20 55
	of 50/60Hz coil p of 50/60Hz coil p ≤20°C 50Hz ge pick-up	ge pick-up drop-out on ≤20°C	of 50/60Hz coil powered at 60Hz pick-up min max drop-out max of 50/60Hz coil powered at 50Hz in-rush holding of 50/60Hz coil powered at 60Hz in-rush holding ≤20°C 50Hz ge min pick-up min max drop-out min max on ≤20°C in-rush holding	of 50/60Hz coil powered at 60Hz pick-up min %Us max %Us drop-out max %Us of 50/60Hz coil powered at 50Hz in-rush holding VA of 50/60Hz coil powered at 60Hz in-rush holding VA of 50/60Hz coil powered at 60Hz in-rush holding VA sequence with the sequence of the



for three-phase AC motor			
	at 200/208V	hp	10
	at 220/230V	hp	15
	at 460/480V	hp	30
	at 575/600V	hp	30

General USE

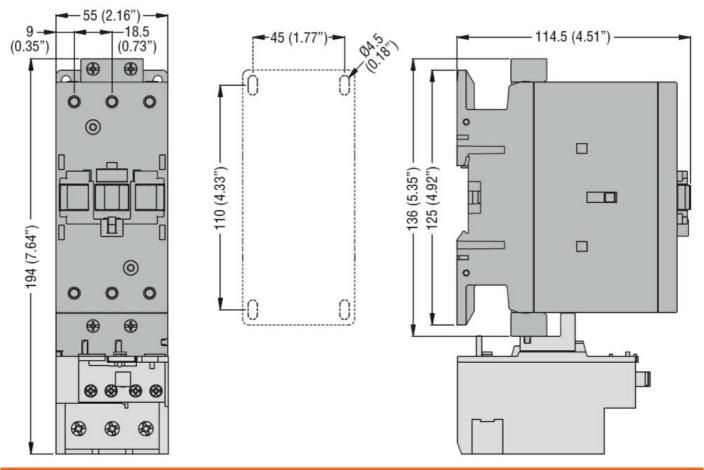
Contactor

AC current A 32

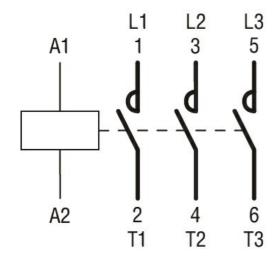
Other features

Pollution degree 3

Dimensions



Wiring diagrams







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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

cULus

ETIM 6 classification

EC000066 - Power contactor, AC switching