



Product designation			Power contactor
Product type designation			BF65
Contact characteristics			
Number of poles		Nr.	4
Rated insulation voltage Ui IEC/EN		V	1000
Rated impulse withstand voltage Uimp		kV	8
Operational frequency		IX V	0
	min	Hz	25
		Hz	400
IEC Conventional free air thermal current Ith	max		
		A	100
Operational current le			400
	AC-1 (≤40°C)	A	100
	AC-1 (≤55°C)	Α	80
	AC-1 (≤70°C)	A	70
	AC-3 (≤440V ≤55°C)	A	65
	AC-4 (400V)	A	31
Rated operational current AC-3 (T≤55°C)			
	230V	А	65
	400V	А	65
	415V	А	65
	440V	А	65
	500V	А	53
	690V	А	47
	1000V	А	25
Rated operational power AC-1 (T≤40°C)			
	230V	kW	38
	400V	kW	65
	500V	kW	82
	690V	kW	114
IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series			
	≤24V	А	50
	48V	А	50
	75V	А	50
	110V	А	8
	220V	A	_
IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series			
	≤24V	А	70
	48V	A	70
	48V 75V	A	70
	110V	A	60
	220V		
IFC may current to in DC1 with 1/P < 1mc with 2 notes in series	2200	A	9
IEC max current le in DC1 with $L/R \le 1$ ms with 3 poles in series	-0111	^	70
	≤24V	A	70
	48V	A	70
	75V	A	70

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FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 100A, AC COIL 50/60HZ, 230VAC

	110V	А	60
	220V	Α	90
IEC max current le in DC1 with $L/R \le 1$ ms with 4 poles in series			
	≤24V	A	70
	48V	А	70
	75V	A	70
	110V	A	70
	220V	A	110
IEC max current le in DC3-DC5 with L/R \leq 15ms with 1 poles in series	-0 A V	•	05
	≤24V	A	35
	48V	A	25
	75V 110V	A A	25 3
	220V		
IEC max current le in DC3-DC5 with L/R \leq 15ms with 2 poles in series	2200	A	_
TEC max current le in DC3-DC3 with L/R S Toms with 2 poles in series	≤24V	٨	45
	≤24V 48V	A A	45 40
	48V 75V	A	40
	110V	A	30
	220V	A	5
IEC max current le in DC3-DC5 with L/R \leq 15ms with 3 poles in series	2201		0
	≤24V	А	55
	48V	A	50
	75V	A	50
	110V	А	35
	220V	А	52
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series			
	≤24V	А	60
	48V	А	60
	75V	А	60
	110V	А	50
	220V	A	65
Short-time allowable current for 10s (IEC/EN60947-1)		А	640
Protection fuse			
	gG (IEC)	A	125
	aM (IEC)	A	80
Making capacity (RMS value)		А	650
Breaking capacity at voltage		-	
	440V	A	520
	500V	A	425
	690V	<u>A</u>	376
Resistance per pole (average value)		mΩ	0.8
Power dissipation per pole (average value)	1.1	147	0
	lth	W	8
Tightoning targua for terminala	AC-3	W	3.4
Tightening torque for terminals		N lur-	Λ
	min	Nm Nm	4
	max	Nm Ibin	5
	min	lbin Ibin	2.95 3.69
Tightening torque for coil terminal	max	חוטו	3.03
	min	Nm	0.8
	max	Nm	0.8 1
	Παλ		1



FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 100A, AC COIL 50/60HZ, 230VAC

		min	Ibin	0.8
		max	lbin	0.74
Max number of wires simultaneously connectable			Nr.	2
Conductor section				
	AWG/Kcmil			
		max		2
	Flexible w/o lug conductor section		_	
		min	mm²	1.5
		max	mm²	35
	Flexible c/w lug conductor section			
		min	mm²	1.5
		max	mm²	35
	ction according to IEC/EN 60529			IP20 front
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN rail 35mm
Weight			g	1240
Conductor section			0	
	AWG/kcmil conductor section			
		max		2
Operations				
Mechanical life			cycles	15000000
Electrical life			cycles	1400000
Safety related data			ý	
	10d according to EN/ISO 13489-1			
	Ū.	rated load	cycles	1400000
		mechanical load	cycles	15000000
Mirror contats according to IEC/EN 609474-4-1				yes
EMC compatibility	<u> </u>			yes
AC coil operating				,
Rated AC voltage at	50/60Hz		V	230
AC operating voltage				
	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	40
		max	%Us	55
AC average coil cons	sumption at 20°C			
	of 50/60Hz coil powered at 50Hz			
		in-rush	VA	210
		holding	VA	15

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FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 100A, AC COIL 50/60HZ,

230VAC

	of 50/60Hz coil pov	wered at 60Hz			
	1		in-rush	VA	195
			holding	VA	13
	of 60Hz coil power	ed at 60Hz			
			in-rush	VA	210
			holding	VA	15
Dissipation at holding	1 <20°C 50H7		noiding	W	5
Max cycles frequency				VV	5
				ev rele e /h	2000
Mechanical operation	1			cycles/h	3600
Operating times					
Average time for Us of					
	in AC				
		Closing NO			
			min	ms	12
			max	ms	28
		Opening NO			
			min	ms	8
			max	ms	22
	in DC				
		Closing NO			
		0 -	min	ms	40
			max	ms	85
		Opening NO	max		
			min	ms	20
			max	ms	55
UL technical data				113	
	A) for three phase AC	motor			
	A) for three-phase AC		at 1001/	۸	65
			at 480V	A	65
	,		at 600V	A	62
Yielded mechanical p					
	for three-phase AC	C motor			
			200/208V	HP	20
			220/230V	HP	25
			220/230V 460/480V		25 50
			220/230V	HP	25
General USE			220/230V 460/480V	HP HP	25 50
General USE	Contactor		220/230V 460/480V	HP HP	25 50
General USE	Contactor		220/230V 460/480V	HP HP	25 50
			220/230V 460/480V 575/600V	HP HP HP	25 50 60
	on fuse, 600V		220/230V 460/480V 575/600V	HP HP HP	25 50 60
			220/230V 460/480V 575/600V AC current	HP HP HP	25 50 60 100
	on fuse, 600V		220/230V 460/480V 575/600V AC current	HP HP A A	25 50 60 100
	on fuse, 600V		220/230V 460/480V 575/600V AC current Short circuit current Fuse rating	HP HP HP	25 50 60 100 100 200
	on fuse, 600V High fault		220/230V 460/480V 575/600V AC current	HP HP A A	25 50 60 100
	on fuse, 600V		220/230V 460/480V 575/600V AC current Short circuit current Fuse rating Fuse class	HP HP A A kA A	25 50 60 100 100 200 J
	on fuse, 600V High fault		220/230V 460/480V 575/600V AC current Short circuit current Fuse rating Fuse class Short circuit current	HP HP A A kA A	25 50 60 100 100 200 J 10
General USE Short-circuit protectic	on fuse, 600V High fault		220/230V 460/480V 575/600V AC current Short circuit current Fuse rating Fuse class Short circuit current Fuse rating	HP HP A A kA A	25 50 60 100 200 J 10 200 J
Short-circuit protectic	on fuse, 600V High fault		220/230V 460/480V 575/600V AC current Short circuit current Fuse rating Fuse class Short circuit current	HP HP A A kA A	25 50 60 100 100 200 J 10
Short-circuit protectic	on fuse, 600V High fault		220/230V 460/480V 575/600V AC current Short circuit current Fuse rating Fuse class Short circuit current Fuse rating	HP HP A A kA A	25 50 60 100 200 J 10 200 J
Short-circuit protectic	on fuse, 600V High fault		220/230V 460/480V 575/600V AC current Short circuit current Fuse rating Fuse class Short circuit current Fuse rating	HP HP A A kA A	25 50 60 100 200 J 10 200 J
Short-circuit protectic	on fuse, 600V High fault	ture	220/230V 460/480V 575/600V AC current Short circuit current Fuse rating Fuse class Short circuit current Fuse rating	HP HP A A kA A	25 50 60 100 200 J 10 200 J
	on fuse, 600V High fault Standard fault	ture	220/230V 460/480V 575/600V AC current Short circuit current Fuse rating Fuse class Short circuit current Fuse rating	HP HP A A kA A	25 50 60 100 200 J 10 200 J
Short-circuit protectic	on fuse, 600V High fault Standard fault	ture	220/230V 460/480V 575/600V AC current Short circuit current Fuse rating Fuse class Short circuit current Fuse rating Fuse class	HP HP A A kA A kA	25 50 60 100 100 200 J 10 200 RK5
Short-circuit protectic	on fuse, 600V High fault Standard fault		220/230V 460/480V 575/600V AC current Short circuit current Fuse rating Fuse class Short circuit current Fuse rating Fuse class	HP HP A A kA A kA A	25 50 60 100 100 200 J 10 200 J RK5 -50

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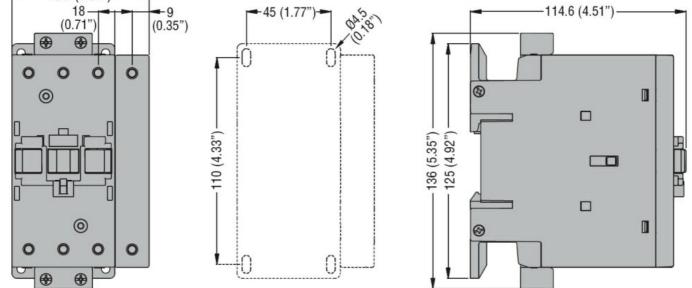
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ENERGY AND AUTOMATION

230VAC

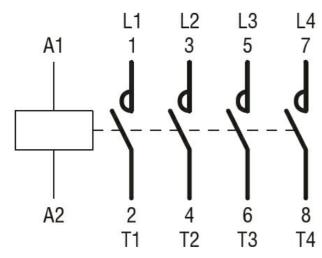
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BF80T2 82mm/3.23"

Wiring diagrams



Certifications and compliance

Complianc	e	
	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	
Certificate	3	
	CCC	
	cULus	
ETIM class	sification	
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EC000066 -Power contactor, AC switching