



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			_
	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current Ith		Α	100
Operational current le			
	AC-1 (≤40°C)	Α	100
	AC-1 (≤55°C)	Α	80
	AC-1 (≤70°C)	Α	70
	AC-3 (≤440V ≤55°C)	Α	65
	AC-4 (400V)	Α	31
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	Α	50
	48V	A	50
	75V	A	50
	110V	A	8
IFC may assument to in DC4 with 1/D < 4 may with 2 males in position	220V	A	
IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series	<241/	۸	70
	≤24V 48V	A	70 70
	75V	A A	70 70
	110V	A	60
	220V	A	9
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series	2201	- / \	
120 max surront to in 201 mai 2/1 = mio mai o poloo il sollos	≤24V	Α	70
	48V	Α	70
	75V	Α	70
	110V	Α	60
	220V	Α	90
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series			
·	≤24V	Α	70
	48V	Α	70
	75V	Α	70
	110V	Α	70
	220V	Α	110



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IEC max current le in [DC3-DC5 with L/R ≤ 15ms with 1 poles in series			
		≤24V	Α	35
		48V	Α	25
		75V	Α	25
		110V	Α	3
		220V	Α	_
IFC max current le in [DC3-DC5 with L/R ≤ 15ms with 2 poles in series		- ' ' '	
ILO MAX GAMENTIO III L	200 200 With 2/11 = 10/110 With 2 polos in school	≤24V	Α	45
		48V	A	40
		75V	A	40
		110V	A	30
	200 205 19 1 /2 1 /5 1 /5 1	220V	Α	5
IEC max current le in L	DC3-DC5 with L/R ≤ 15ms with 3 poles in series			
		≤24V	Α	55
		48V	Α	50
		75V	Α	50
		110V	Α	35
		220V	Α	52
IEC max current le in [DC3-DC5 with L/R ≤ 15ms with 4 poles in series			
	·	≤24V	Α	60
		48V	Α	60
		75V	Α	60
		110V	A	50
		220V	A	65
Short time allowable a	urrent for 10g (IEC/ENG0047.1)	220 V		640
	urrent for 10s (IEC/EN60947-1)		Α	640
Protection fuse		0 (150)		405
		gG (IEC)	Α	125
		aM (IEC)	A	80
Making capacity (RMS	· · · · · · · · · · · · · · · · · · ·		Α	650
Breaking capacity at vo	oltage			
		440V	Α	520
		500V	Α	425
		690V	Α	376
Resistance per pole (a	verage value)		mΩ	0.8
Power dissipation per				
	polo (a. o. ago Talao)	Ith	W	8
		AC3	W	3.4
Tightening torque for to	erminals	7.00	v V	J.¬
riginierinig torque for te	ominais	:	Nima	4
		min	Nm Nm	4
		max	Nm	5
		min	lbin	2.95
		max	Ibin	3.69
Tightening torque for c	oil terminal			
		min	Nm	0.8
		max	Nm	1
		min	lbin	0.8
		max	lbin	0.74
Max number of wires s	simultaneously connectable		Nr.	2
Conductor section	·			
	AWG/Kcmil			
		max		2
	Flexible w/o lug conductor section	Παλ		
	I IGNINIE W/O ING CONTROLON SECTION	min	mm²	1.5
		111111	111111	1.0



		max	mm²	35
	Flexible c/w lug conductor section			
		min	mm²	1.5
		max	mm²	35
	ion according to IEC/EN 60529			IP20 front
Mechanical features Operating position				
Operating position		normal		Vertical plan
		allowable		±30°
		allowable		Screw / DIN rail
Fixing				35mm
Weight			g	1240
Conductor section				
	AWG/kcmil conductor section			
Operations		max		2
Mechanical life			cycles	15000000
Electrical life			cycles	1400000
Safety related data			Oy OlO3	. 100000
•	od according to EN/ISO 13489-1			
		rated load	cycles	1400000
		mechanical load	cycles	15000000
Mirror contats according	ng to IEC/EN 609474-4-1			yes
EMC compatibility				yes
AC coil operating				
Rated AC voltage at 50	0/60Hz		V	230
AC operating voltage				
	of 50/60Hz coil powered at 50Hz			
	pick-up			
		min	%Us	80
		max	%Us	110
	drop-out		0/11-	0.0
		min	%Us	20
	of FO/SOLLT poil powered at SOLLT	max	%Us	55
	of 50/60Hz coil powered at 60Hz pick-up			
	ρισκ-αρ	min	%Us	85
		max	%Us	110
	drop-out	IIIdX	,000	
		min	%Us	40
		max	%Us	55
AC average coil consu	mption at 20°C			
-	of 50/60Hz coil powered at 50Hz			
		in-rush	VA	210
		holding	VA	15
	of 50/60Hz coil powered at 60Hz			
		in-rush	VA	195
		holding	VA	13
	of 60Hz coil powered at 60Hz	_		
		in-rush	VA	210
District Control	400°0 FOLL	holding	VA	15
Dissipation at holding ≤	520°C 50Hz		W	5
Max cycles frequency			0) (0 0 0 /!-	2600
Mechanical operation			cycles/h	3000

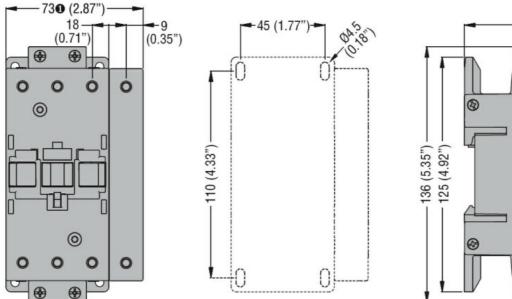


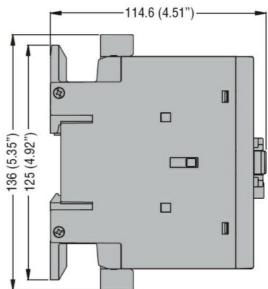
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Operating times					
Average time for Us co	ntrol				
_	in AC				
		Closing NO			
			min	ms	12
			max	ms	28
		Opening NO			
			min	ms	8
			max	ms	22
	in DC				
		Closing NO	_		
			min	ms	40
		0 NO	max	ms	85
		Opening NO			00
			min	ms	20
UL technical data			max	ms	55
Full-load current (FLA)	for three-phase AC m	notor			
i dii lodd ddilellt (i LA)	ioi unoo phase AO II	10.01	at 480V	Α	65
			at 600V	Α	62
Yielded mechanical per	rformance		at 000 v	,,	
riolada ilidalia pol	for three-phase AC	motor			
	р		200/208V	HP	20
			220/230V	HP	25
			460/480V	HP	50
			575/600V	HP	60
General USE					
	Contactor				
			AC current	Α	100
Short-circuit protection	fuse, 600V				_
	High fault				
			Short circuit current	kA	100
			Fuse rating	Α	200
			Fuse class		J
	Standard fault		_		
			Short circuit current	kA	10
			Fuse rating	Α	200
A colling to the second second			Fuse class		RK5
Ambient conditions					
Temperature	Operating towns and	ıro			
	Operating temperatu	JI €	min	°C	-50
			max	°C	-50 70
	Storage temperature	2	IIIaX		10
	Glorage lemperature	•	min	°C	-60
			max	°C	80
Max altitude			IIIdX	 	3000
Resistance & Protectio	n				
Pollution degree					3
Dimensions [mm (in)]					



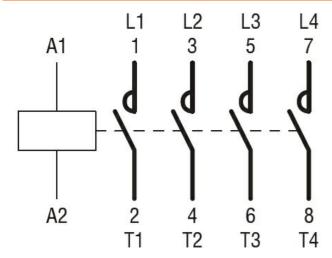
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BF80T2 82mm/3.23"

Wiring diagrams



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

ETIM classification

ETIM 8.0

EC000066 -Power contactor, AC switching