



Product designation			Power contactor
Product type designation Contact characteristics			BFD65
Number of poles		Nr.	3
Rated insulation voltage Ui IEC/EN		V	1000
Rated insulation voltage of IEC/EN Rated impulse withstand voltage Uimp		kV	8
		KV	0
Operational frequency			0.5
	min	Hz	25 400
IEC Conventional free air thermal current Ith	max	Hz	115
		A	110
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series	400\/	۸	100
	400V	A	100
	600V	A	75 45
	800V	A	45
Chart time allowable correct for 40a (IEC/ENCO047.4)	1000V	<u>А</u> А	35
Short-time allowable current for 10s (IEC/EN60947-1)		Α	640
Protection fuse	O (IEO)	۸	405
	gG (IEC)	A	125
Desistance and design and the second	aM (IEC)	Α	80
Resistance per pole (average value)		mΩ	0.6
Power dissipation per pole (average value)	141-	14/	7.0
Talk to the form of the form the last	Ith	W	7.9
Tightening torque for terminals			
	min	Nm	4
	max	Nm	5
	min	lbin	2.95
	max	Ibin	3.69
Tightening torque for coil terminal			
	min	Nm	0.8
	max	Nm	1
	min	Ibin	0.8
	max	Ibin	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
Power terminal protection according to IEC/EN 60529			IP20 front
Mechanical features			

Operating position



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		normal allowable		Vertical plan ±30°
Fixing				Screw / DIN rail 35mm
Weight			g	12476
Conductor section				
	AWG/kcmil conductor section			
		max		2
Operations				
Mechanical life			cycles	15000000
Safety related data				
Performance level B10	od according to EN/ISO 13489-1			
		mechanical load	cycles	15000000
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			
		min	%Us	20
		max	%Us	55
	of 50/60Hz coil powered at 60Hz			
	pick-up		0/11-	0.5
		min	%Us	85
	duan aut	max	%Us	110
	drop-out	min	0/116	20
		min	%Us %Us	20 55
AC average coil consu	motion at 20°C	max	76US	33
AC average con consu	of 50/60Hz coil powered at 50Hz			
	of 30/60/12 coil powered at 30/12	in-rush	VA	210
		holding	VA	15
	of 50/60Hz coil powered at 60Hz	Holding	V/_	10
	of 30/00112 con powered at 00112	in-rush	VA	195
		holding	VA	13
	of 60Hz coil powered at 60Hz	Holding	VA	10
	or our iz our powered at our iz	in-rush	VA	210
		holding	VA	15
Dissipation at holding :	≤20°C 50Hz	noiding .	W	5
Max cycles frequency				
Mechanical operation			cycles/h	3600
Operating times			.,	
Average time for Us co	ontrol			
3	in AC			
	Closing NO			
	Č	min	ms	12
		max	ms	28
	Opening NO			
	. •	min	ms	8
		max	ms	22
	in DC			

115

3

AC current



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	min	ms	40
	max	ms	85
Opening NO			
	min	ms	20
	max	ms	55

UL technical data

General USE

4 poles in series DC1			
	600V	Α	100

Ambient conditions

Temperature

Operating temperature

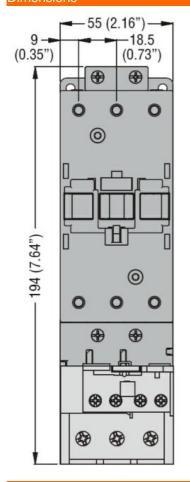
	min		-50	
	max	°C	70	
Storage temperature				
	min	°C	-60	
	max	°C	80	
		m	3000	

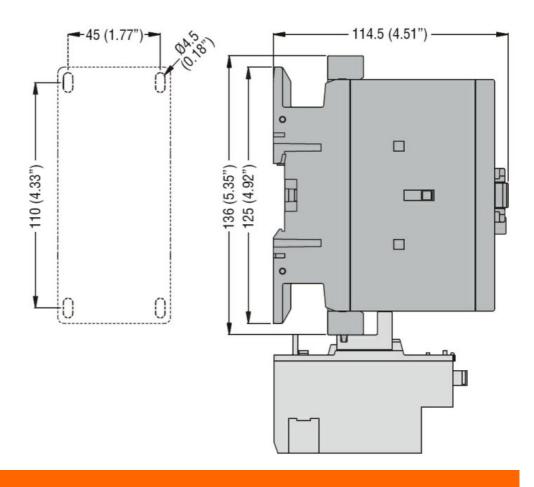
Resistance & Protection

Pollution degree

Dimensions

Max altitude

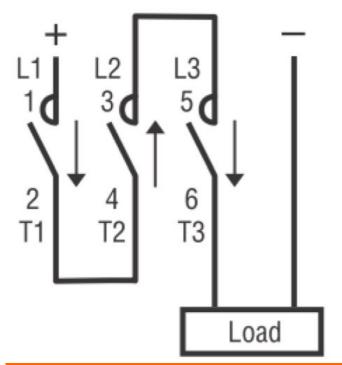


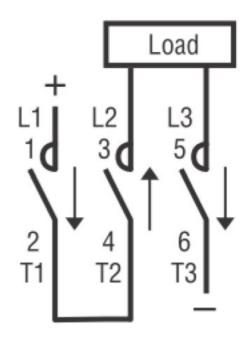


Wiring diagrams



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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

ETIM classification

ETIM 8.0

EC002552 -Power contactor, DC switching