



Product designation	e			Power contactor
Product type designa Contact characteristic				BFD65
			Nle	3
Number of poles	00 Hi IFC/FN		Nr. V	1000
Rated insulation volta	-			
Rated impulse withsta	·		kV	8
Operational frequency	y			0.5
		min	Hz	25
		max	Hz	400
	e air thermal current Ith		Α	115
IEC max current le in	DC1 with L/R ≤ 1ms with 3 poles in series			
		400V	Α	100
		600V	Α	75
		800V	Α	45
		1000V	Α	35
Short-time allowable	current for 10s (IEC/EN60947-1)		Α	640
Protection fuse				
		gG (IEC)	Α	125
		aM (IEC)	Α	80
Resistance per pole (average value)		mΩ	0.6
Power dissipation per				
	,	Ith	W	7.9
Tightening torque for	terminals			
3 3 1		min	Nm	4
		max	Nm	5
		min	lbin	2.95
		max	Ibin	3.69
Tightening torque for	coil terminal	max		0.00
riginorning torquo for		min	Nm	0.8
		max	Nm	1
		min	lbin	0.8
		max	Ibin	0.74
May number of wires	simultaneously connectable	IIIax	Nr.	2
	Simultaneously connectable		INI.	۷
Conductor section	A1A1C/1/camil			
	AWG/Kcmil			0
	<u></u>	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



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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	L			
Performance level B10	od according to EN/ISO 13489-1			4500000
EMO (2.22)		mechanical load	cycles	15000000
EMC compatibility				yes
AC coil operating	2/2011-		\ /	000
Rated AC voltage at 50	J/60HZ		V	230
AC operating voltage	of EO/GOHz and noward at EO/J-			
	of 50/60Hz coil powered at 50Hz pick-up			
	pick-up	min	%Us	80
		max	%Us	110
	drop-out	Παλ	/003	110
	αιορ-οαι	min	%Us	20
		max	%Us	55
	of 50/60Hz coil powered at 60Hz		,,,,,	
	pick-up			
	r r	min	%Us	85
		max	%Us	110
	drop-out			
	•	min	%Us	20
		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
		holding	VA	15
Dissipation at holding ≤	≤20°C 50Hz		W	5
Max cycles frequency			1 /	0000
Mechanical operation			cycles/h	3600
Operating times	entrol			
Average time for Us co				
	in AC			
	Closing NO	main	ma	12
		min	ms ms	12
	Onanina NO	max	ms	28
	Opening NO	min	me	8
		(1111)	ms	U
		max	ms	22

115

3

AC current



CI	osing	NO
0	COILIG	

	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

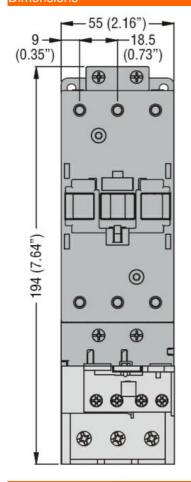
Operating temperature				
	min	°C	-50	
	max	°C	70	
Storage temperature				
	min	°C	-60	
	max	°C	80	
		m	3000	

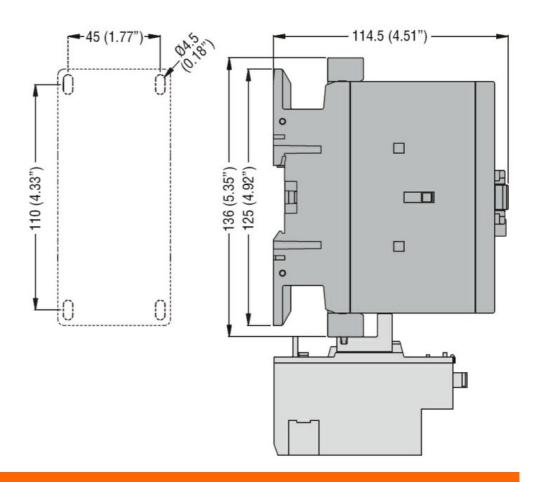
Resistance & Protection

Pollution degree

Dimensions

Max altitude

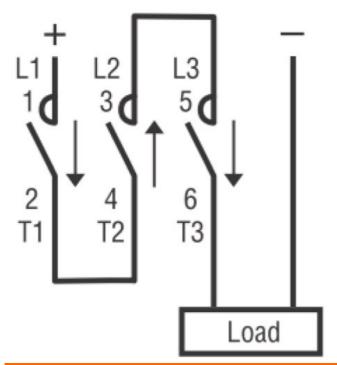


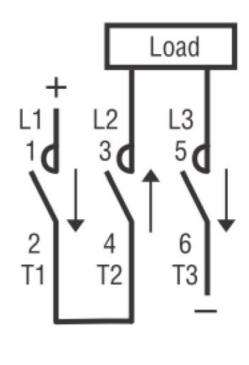


Wiring diagrams



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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