



Product designation				Power contactor
Product type designate	tion			BFD65
Contact characteristic	S S			
Number of poles			Nr.	3
Rated insulation volta	ge Ui IEC/EN		V	1000
Rated impulse withsta	and voltage Uimp		kV	8
Operational frequency				
		min	Hz	25
		max	Hz	400
IEC Conventional free	e air thermal current Ith		Α	115
Operational current le				
•		AC-1 (≤40°C)	Α	160
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)	10001	A	640
Protection fuse	04110111011100 (120/21100017-1)			0.10
1 10100110111100		gG (IEC)	Α	125
		aM (IEC)	A	80
Resistance per pole (	average value)	aivi (ILO)	mΩ	0.6
Power dissipation per			11152	0.0
i owei dissipation per	pole (average value)	Ith	W	7.9
Tightening torque for	terminals	iui	• • • • • • • • • • • • • • • • • • • •	7.0
rigitioning torque for	ionninaio	min	Nm	4
		max	Nm	5
		min	Ibin	2.95
		max	Ibin	3.69
Tightening torque for	coil terminal	IIIdx	IDIII	3.03
rigitiering torque for	con terminal	min	Nm	0.8
		max	Nm	1
		min	Ibin	0.8
			Ibin	0.74
May number of wires	simultaneously connectable	max	Nr.	2
Conductor section	Simulaticously collifectable		INI.	
Conductor Section	AWG/Kemil			
	AWG/Kcmil	<b></b>		2
	Electrical territories and the second territories and ter	max		2
	Flexible w/o lug conductor section			4.5
		min	mm²	1.5
	=	max	mm²	35
	Flexible c/w lug conductor section		_	
		min	mm²	1.5
		max	mm²	35
Power terminal protect	ction according to IEC/EN 60529			IP20 front



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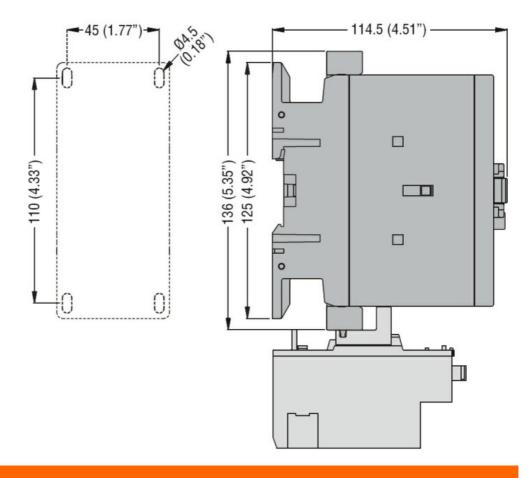
Mechanical features					
Operating position					
			normal		Vertical plan
			allowable		±30°
Fixing					Screw / DIN rail
					35mm
Weight				g	1240
Conductor section					
	AWG/kcmil conduc	tor section			
O "			max		2
Operations					4.7.0.0.0.0
Mechanical life				cycles	15000000
Safety related data	10 L ENW	20.40400.4			
Performance level B1	10d according to EN/IS	SO 13489-1			45000000
EMO			mechanical load	cycles	15000000
EMC compatibility					yes
AC coil operating	20U-7			V	24
Rated AC voltage at 6				V	24
AC operating voltage		ad at 60U-			
	of 60Hz coil powere				
		pick-up	min	%Us	80
			max	%Us	110
		drop-out	IIIax	/0US	110
		drop-out	min	%Us	20
			max	%Us	55
AC average coil cons	umption at 20°C		IIIdA	/003	33
AC average con cons	of 60Hz coil power	ed at 60Hz			
	or our iz con powers	50 at 001 12	in-rush	VA	210
			holding	VA	15
Dissipation at holding	<20°C 50Hz		nolulig	W	5
Max cycles frequency				**	
Mechanical operation					
moonamour operation				cvcles/h	3600
Operating times				cycles/h	3600
Operating times  Average time for Us of				cycles/h	3600
Operating times Average time for Us of	control			cycles/h	3600
,		Closing NO		cycles/h	3600
,	control	Closing NO	min		
,	control	Closing NO	min max	ms	12
	control	-	min max		
	control	Closing NO Opening NO	max	ms ms	12 28
,	control	-	max min	ms ms	12 28 8
	control in AC	-	max	ms ms	12 28
	control	Opening NO	max min	ms ms	12 28 8
	control in AC	-	max min max	ms ms ms	12 28 8 22
,	control in AC	Opening NO	max min max min	ms ms ms ms	12 28 8 22
,	control in AC	Opening NO  Closing NO	max min max	ms ms ms	12 28 8 22
	control in AC	Opening NO	max min max min max	ms ms ms ms	12 28 8 22 40 85
	control in AC	Opening NO  Closing NO	max min max min max min max min	ms ms ms ms	12 28 8 22 40 85 20
Average time for Us o	control in AC	Opening NO  Closing NO	max min max min max	ms ms ms ms	12 28 8 22 40 85
Average time for Us o	control in AC	Opening NO  Closing NO	max min max min max min max min	ms ms ms ms	12 28 8 22 40 85 20
Average time for Us o	control in AC	Opening NO  Closing NO	max min max min max min max min	ms ms ms ms	12 28 8 22 40 85 20
Average time for Us of	control in AC	Opening NO  Closing NO	max min max min max min max min	ms ms ms ms	12 28 8 22 40 85 20



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		600V	Α	100
Ambient conditions				
Temperature				
	Operating temperature			
		min	°C	-50
		max	°C	70
	Storage temperature			
		min	°C	-60
		max	°C	80
Max altitude			m	3000
Resistance & Protect	ion			
Pollution degree				3
Dimensions				

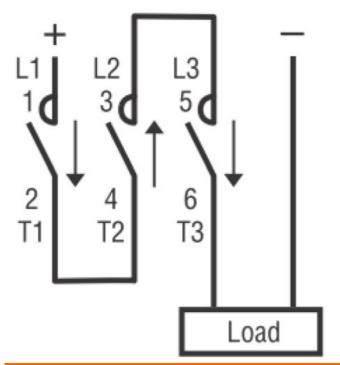
## 9 18.5 (0.73") (0.73") (0.73")

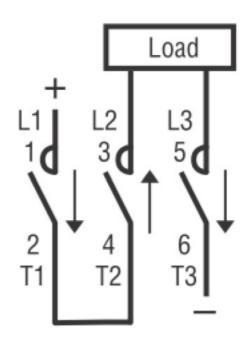


Wiring diagrams



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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