



Product designation			Power contactor
Product type designation			BFD65
Contact characteristics			
Number of poles		Nr.	3
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	115
Operational current le			
	AC-1 (≤55°C)	Α	130
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series			
	400V	Α	100
	600V	A	75
	800V	A	45
	1000V	A	35
Short-time allowable current for 10s (IEC/EN60947-1)	10001	A	640
Protection fuse			040
1 Totalian Tuda	gG (IEC)	Α	125
	aM (IEC)	A	80
Resistance per pole (average value)	aivi (ILO)	mΩ	0.6
Power dissipation per pole (average value)		11132	0.0
Tower dissipation per pole (average value)	Ith	W	7.9
Tightening torque for terminals	101	• • • • • • • • • • • • • • • • • • • •	1.0
rightering torque for terminals	min	Nm	4
	max	Nm	5
	min	lbin	2.95
	max	lbin	3.69
Tightening torque for coil terminal	παχ	10111	0.00
rightering torque for contentinal	min	Nm	0.8
	max	Nm	1
	min	lbin	0.8
	max	Ibin	0.74
Max number of wires simultaneously connectable	max	Nr.	2
Conductor section		141.	
AWG/Kcmil			
AWO/ICIIII	max		2
Flexible w/o lug conductor section	IIIdx		
Flexible w/o lag colladetol section	min	mm²	1.5
Flexible c/w lug conductor section	max	mm²	35
i lexible c/w lug colludciol Section	min	mm²	1.5
		mm²	35
Power terminal protection according to IEC/EN 60520	max	111111	
Power terminal protection according to IEC/EN 60529			IP20 front

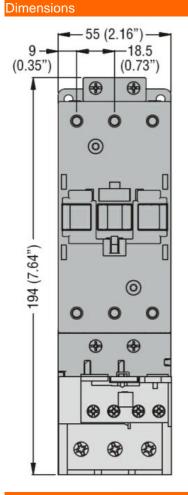


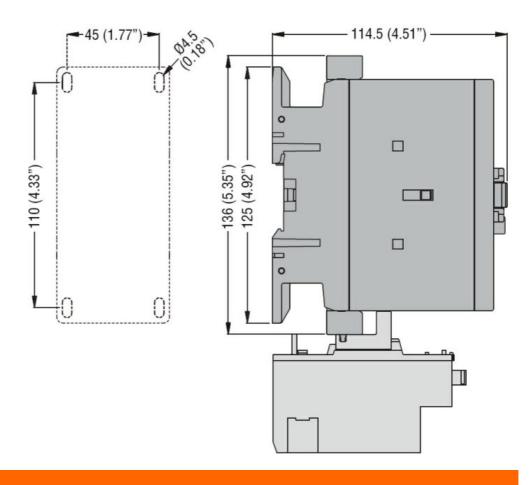
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Mechanical features		
Operating position		
	normal allowable	Vertical plan ±30°
Fixing		Screw / DIN rail 35mm
Weight	g	1240
Operations		
Mechanical life	cycles	15000000
Safety related data		
Performance level B10d according to EN/ISO 13489-1		
	mechanical load cycles	15000000
EMC compatibility		yes
AC coil operating		
Rated AC voltage at 50/60Hz	V	110
AC operating voltage		
of 50/60Hz coil powered at 50Hz		
pick-up		
	min %Us	80
	max %Us	110
drop-out		00
	min %Us	20
of EO/COLLT and noward at COLLT	max %Us	55
of 50/60Hz coil powered at 60Hz		
pick-up	min %Us	85
	max %Us	110
drop-out	111ax 7003	110
diop out	min %Us	20
	max %Us	55
AC average coil consumption at 20°C	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
of 50/60Hz coil powered at 50Hz		
5. 53, 55. <u>—</u> 55. <u>—</u> 75. —	in-rush VA	210
	holding VA	15
of 50/60Hz coil powered at 60Hz	3	
· ·	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		
Mechanical operation	cycles/h	3600
Operating times		
Average time for Us control		
in AC		
Closing NO		
	min ms	12
	max ms	28
Opening NC		0
	min ms	8
in DC	max ms	22
in DC		
Closing NO		



		min	ms	40
		max	ms	85
	Opening NO			
		min	ms	20
		max	ms	55
UL technical data				
Rated operational volta	age AC (UL)		V	600
General USE				
	Contactor			
		AC current	Α	115
	4 poles in series DC1			
		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 & Protection	on			
Pollution degree				3
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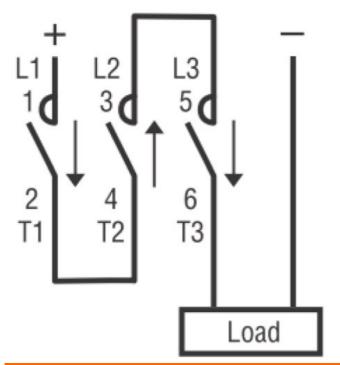


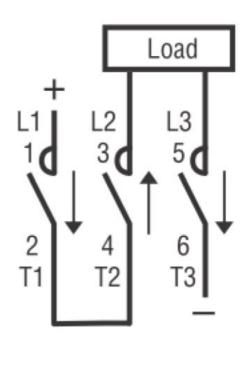


Wiring diagrams



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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