



Product designation
Product type designation

Power contactor
BFD65

Contact characteristics

Number of poles	Nr.	3
Rated insulation voltage U_i IEC/EN	V	1000
Rated impulse withstand voltage U_{imp}	kV	8
Operational frequency	min Hz	25
	max Hz	400
IEC Conventional free air thermal current I_{th}	A	115
IEC max current I_e in DC1 with $L/R \leq 1ms$ with 3 poles in series	400V A	100
	600V A	75
	800V A	45
	1000V A	35
Short-time allowable current for 10s (IEC/EN60947-1)	A	640
Protection fuse	gG (IEC) A	125
	aM (IEC) A	80
Resistance per pole (average value)	mΩ	0.6
Power dissipation per pole (average value)	I_{th} W	7.9
Tightening torque for terminals	min Nm	4
	max Nm	5
	min I_{bin}	2.95
	max I_{bin}	3.69
Tightening torque for coil terminal	min Nm	0.8
	max Nm	1
	min I_{bin}	0.8
	max I_{bin}	0.74
Max number of wires simultaneously connectable	Nr.	2
Conductor section	AWG/Kcmil	
	max	2
Flexible w/o lug conductor section	min mm ²	1.5
	max mm ²	35
Flexible c/w lug conductor section	min mm ²	1.5
	max mm ²	35
Power terminal protection according to IEC/EN 60529		IP20 front

Mechanical features

Operating position

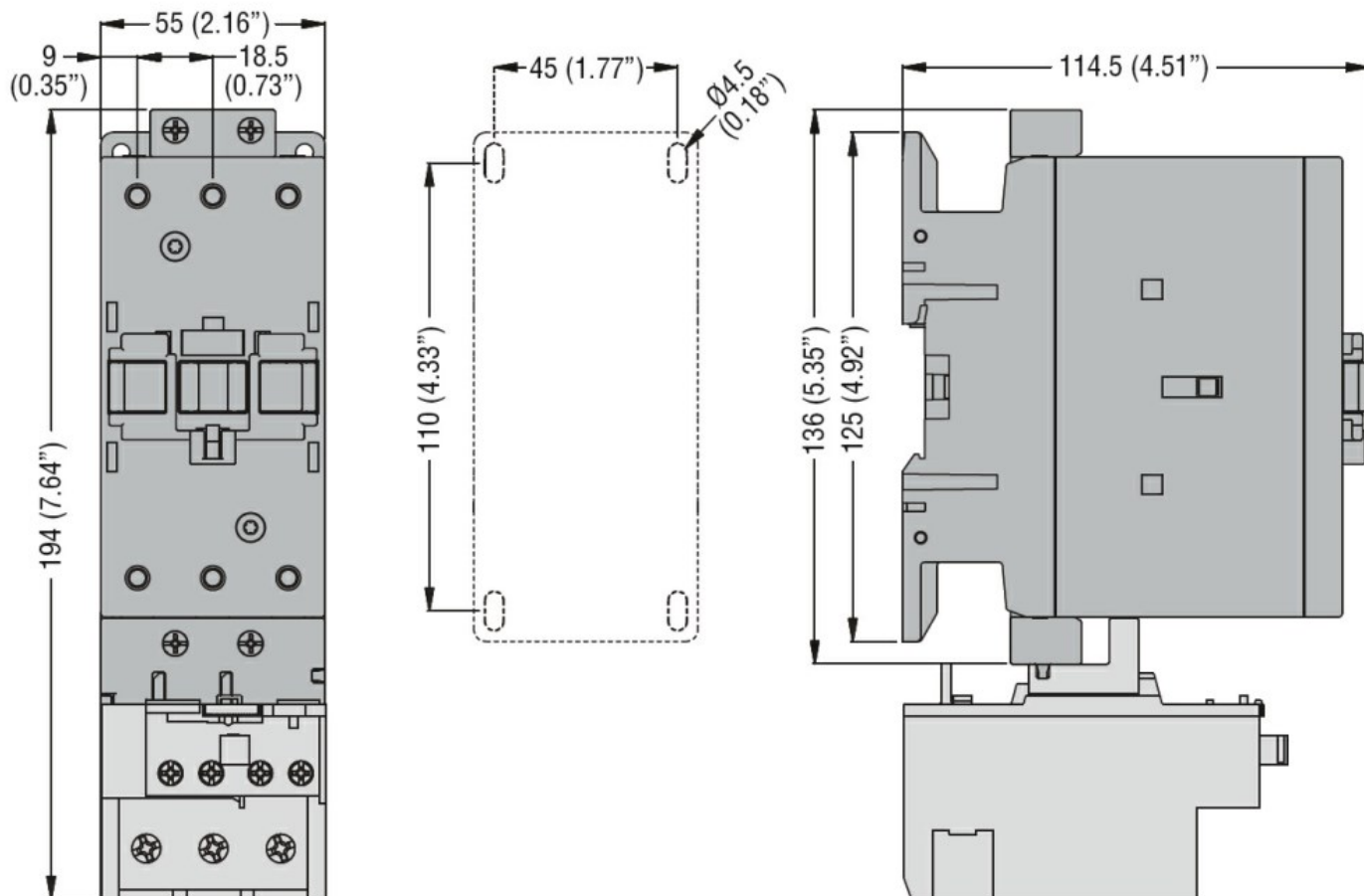
	normal allowable		Vertical plan ±30°
Fixing			Screw / DIN rail 35mm
Weight	g		1240
Operations			
Mechanical life		cycles	15000000
Safety related data			
Performance level B10d according to EN/ISO 13489-1			
	mechanical load	cycles	15000000
EMC compatibility			yes
AC coil operating			
Rated AC voltage at 60Hz		V	120
AC operating voltage			
of 60Hz coil powered at 60Hz			
pick-up			
	min	%Us	80
	max	%Us	110
drop-out			
	min	%Us	20
	max	%Us	55
AC average coil consumption at 20°C			
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 NO			
	min	ms	8
	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 voltage AC (UL)		V	600
General USE			
Contactor			
	AC current	A	115
4 poles in series DC1			
	600V	A	100
Ambient conditions			
Temperature			
Operating temperature			

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

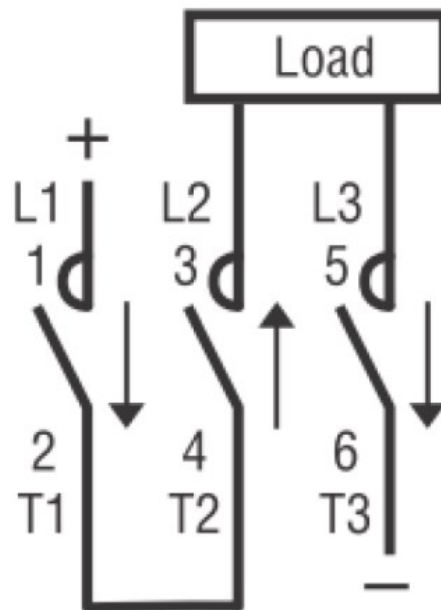
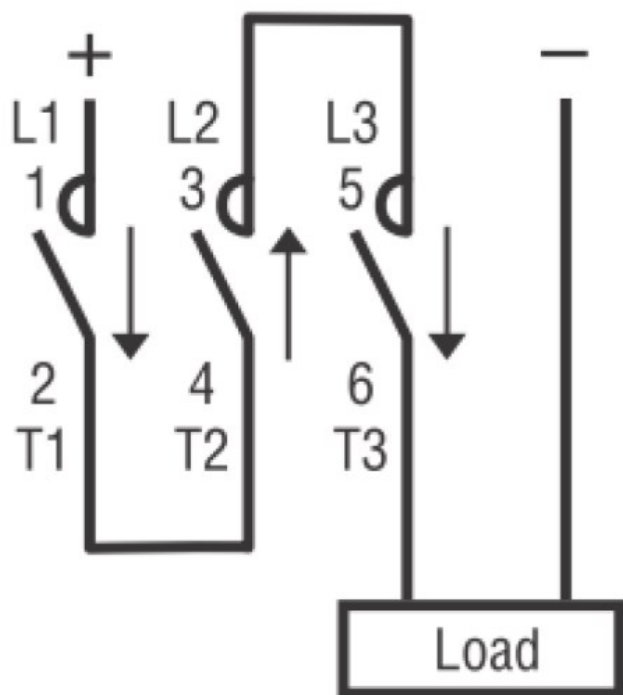
Resistance & Protection

Pollution degree 3

Dimensions



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

ETIM classification

ETIM 8.0

EC002552 -
Power contactor,
DC switching