



Product designation			Power contactor
Product type designation  Contact characteristics			BFD80
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
·		ΚV	0
Operational frequency		1.1-	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	80
	800V	A	65
Chart time allowable augreent for 40a (IEC/ENCO047.4)	1000V	A 	60
Short-time allowable current for 10s (IEC/EN60947-1)		A	640
Protection fuse	~O (IFO)	۸	405
	gG (IEC)	A	125
Desigtance nor note (average value)	aM (IEC)	A	80
Resistance per pole (average value)		mΩ	0.6
Power dissipation per pole (average value)	الماء	۱۸/	7.0
Timbtoning tours of automaticals	Ith	W	7.9
Tightening torque for terminals		N	4
	min	Nm	4
	max	Nm	5
	min	lbin	2.95
Timber in a transport for a cit to make al	max	lbin	3.69
Tightening torque for coil terminal		N	0.0
	min	Nm	0.8
	max	Nm	1
	min	Ibin	0.8
May number of using a impultance uply compactable	max	Ibin	0.74
Max number of wires simultaneously connectable		Nr.	2
Conductor section			
AWG/Kcmil			0
Elevible w/e les en destes en stiere	max		2
Flexible w/o lug conductor section		ma :== 2	1 E
	min	mm²	1.5
Flavible ato ton an doctor and to	max	mm²	35
Flexible c/w lug conductor section	* .	····· 2	4.5
	min	mm²	1.5
Device to recipal contention according to 150/FN 00500	max	mm²	35
Power terminal protection according to IEC/EN 60529			IP20 front
Mechanical features			

Operating position



**ENERGY AND AUTOMATION** 

		normal allowable		Vertical plan ±30°
Fixing				Screw / DIN rail 35mm
Weight			g	1240
Conductor section				
	AWG/kcmil conductor section			
		max		2
Operations				
Mechanical life			cycles	15000000
Safety related data				
Performance level B10	0d according to EN/ISO 13489-1			
=110		mechanical load	cycles	15000000
EMC compatibility				yes
AC coil operating	0/0011-		\ /	24
Rated AC voltage at 5	U/6UHZ		V	24
AC operating voltage	of 50/60Hz coil powered at 50Hz			
	pick-up			
	рюк-ир	min	%Us	80
		max	%Us	110
	drop-out		,,,,,	
		min	%Us	20
		max	%Us	55
	of 50/60Hz coil powered at 60Hz			
	pick-up			
		min	%Us	85
		max	%Us	110
	drop-out			
		min	%Us	20
		max	%Us	55
AC average coil consu				
	of 50/60Hz coil powered at 50Hz	:	١/٨	240
		in-rush holding	VA VA	210 15
	of 50/60Hz coil powered at 60Hz	nolaing	VA	13
	of 30/00112 con powered at 00112	in-rush	VA	195
		holding	VA	13
	of 60Hz coil powered at 60Hz	o.ag	***	- <del></del>
		in-rush	VA	210
		holding	VA	15
Dissipation at holding:	≤20°C 50Hz	<u> </u>	W	5
Max cycles frequency				
Mechanical operation			cycles/h	3600
Operating times				
Average time for Us co				
	in AC			
	Closing NO			
		min	ms	12
	0	max	ms	28
	Opening NO	!	pa a	0
		min	ms ms	8 22
	in DC	max	ms	
	111 DO			

3



$\sim$		NIO
	losing	NO
_	009	

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

## UL technical data

General USE

Contactor			
	AC current	Α	115
4 poles in series DC1		,	
	600V	Α	100

#### Ambient conditions

Temperature

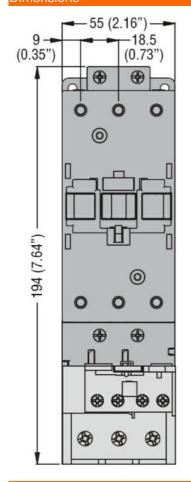
Operating temperature				
	min	°C	-50	
	max	°C	70	
Storage temperature				
	min	°C	-60	
	max	°C	80	
		m	3000	

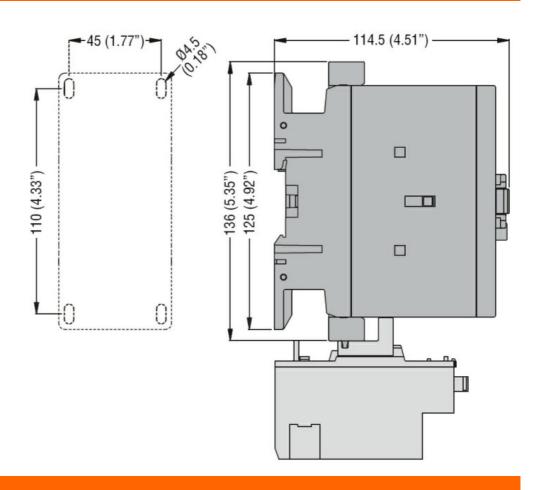
# Resistance & Protection

Pollution degree

Dimensions

Max altitude

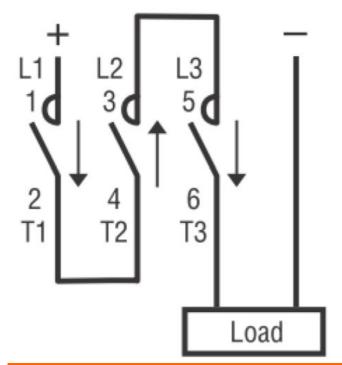


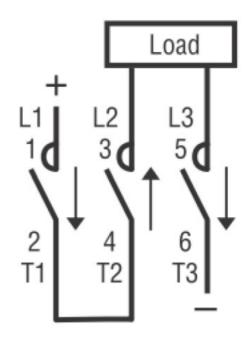


# Wiring diagrams



**ENERGY AND AUTOMATION** 





## 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