



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 correct for 40a (IEC/ENCO047.4)	1000V	A 	60
Short-time allowable current for 10s (IEC/EN60947-1)		Α	640
Protection fuse	O (IEO)	۸	405
	gG (IEC)	A	125
Desigtance per pela (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 a toursingle	Ith	W	7.9
Tightening torque for terminals		N	4
	min	Nm	4
	max	Nm	5
	min	lbin	2.95
Tinktonia a tonova for poil tomoir 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 insultangently connectable	max	Ibin	0.74
Max number of wires simultaneously connectable		Nr.	2
Conductor section			
AWG/Kcmil			0
Flavible w/s lun and dustan anglism	max		2
Flexible w/o lug conductor section		ma :== 2	1 E
	min	mm²	1.5
Flavible about a service and about	max	mm²	35
Flexible c/w lug conductor section		· ?	4.5
	min	mm²	1.5
Device to recipal protection 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/kcm	il conductor section			
		max		2
Operations				
Mechanical life			cycles	15000000
Safety related data				
Performance level B10d according	g to EN/ISO 13489-1			
-		mechanical load	cycles	15000000
EMC compatibility				yes
AC coil operating			.,	10
Rated AC voltage at 50/60Hz			V	48
AC operating voltage	"			
of 50/60H	z coil powered at 50Hz			
	pick-up		0/116	0.0
		min	%Us %Us	80 110
	drop-out	max	%US	110
	drop-out	min	%Us	20
		max	%Us	55
of 50/60H:	z coil powered at 60Hz	Пах	7000	
01 00/001 12	pick-up			
	prom Sp	min	%Us	85
		max	%Us	110
	drop-out			
		min	%Us	20
		max	%Us	55
AC average coil consumption at 20				
of 50/60H:	z coil powered at 50Hz			
		in-rush		210
		holding	VA	15
of 50/60H:	z coil powered at 60Hz			
		in-rush	VA	195
100::	"	holding	VA	13
of 60Hz co	oil powered at 60Hz		١/٨	240
		in-rush	VA	210
Discipation at holding <20°C FOLIZ	,	holding	VA W	15 5
Dissipation at holding ≤20°C 50Hz Max cycles frequency			VV	5
Mechanical operation			cycles/h	3600
Operating times			Cycles/11	3000
Average time for Us control				
in AC				
117.0	Closing NO			
	2.209	min	ms	12
		max	ms	28
	Opening NO			
	, 3 -	min	ms	8
		max	ms	22
		IIIdA	1113	22

115

3

AC current



C	osing	NO
_	comig	

	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

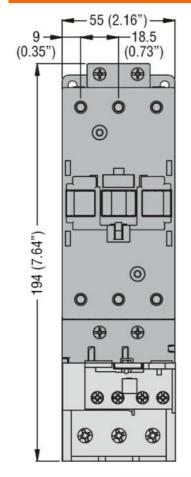
- p				
	min	°C	-50	
	max	°C	70	
Storage temperature				
	min	°C	-60	
	max	°C	80	
		m	3000	

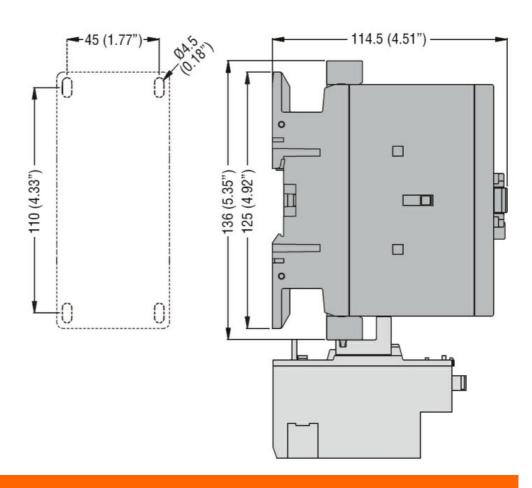
Resistance & Protection

Pollution degree

Dimensions

Max altitude

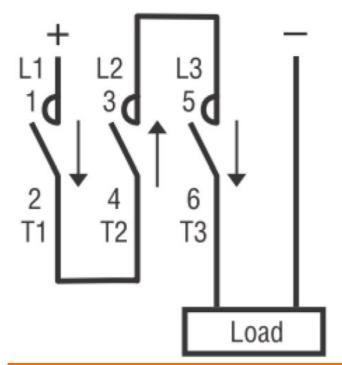


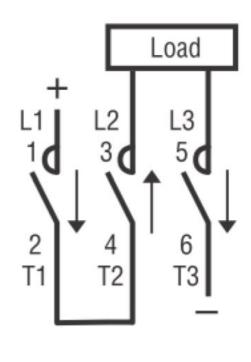


Wiring diagrams









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