



Product designation			Power contactor
Product type designation			BFD80
Contact characteristics			
Number of poles		Nr.	4
Rated insulation voltage Ui IEC/EN		V	1000
Rated impulse withstand voltage Uimp		kV	8
Operational frequency			
op aramana,	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current Ith	THOX	A	115
Operational current le			
Operational outlett to	AC-1 (≤40°C)	Α	160
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series	A0-1 (=40 0)		100
ILO max current le in DOT with L/IV 3 mis with 4 poles in series	400V	۸	115
	600V	A	100
	800V	A	
		A	90
Object (See all and Leaves) (4.40) (15.0/5N00047.4)	1000V	A	80
Short-time allowable current for 10s (IEC/EN60947-1)		Α	640
Protection fuse	0 (150)		4.0.
	gG (IEC)	Α	125
	aM (IEC)	A	80
Resistance per pole (average value)		mΩ	0.6
Power dissipation per pole (average value)			
	Ith	W	7.9
Tightening torque for terminals			
	min	Nm	4
	max	Nm	5
	min	lbin	2.95
	max	lbin	3.69
Tightening torque for coil terminal			
	min	Nm	0.8
	max	Nm	1
	min	lbin	0.59
	max	lbin	0.74
Max number of wires simultaneously connectable		Nr.	2
Conductor section			
AWG/Kcmil			
	max		2
Flexible w/o lug conductor section			
•	min	mm²	1.5
	max	mm²	35
Flexible c/w lug conductor section			-
c c. ii lag conductor cocaton	min	mm²	1.5
	max	mm²	35
Power terminal protection according to IEC/EN 60529	max		IP20 front
1 5 Hor tominal proteodion according to 120/214 00025			11 20 110111



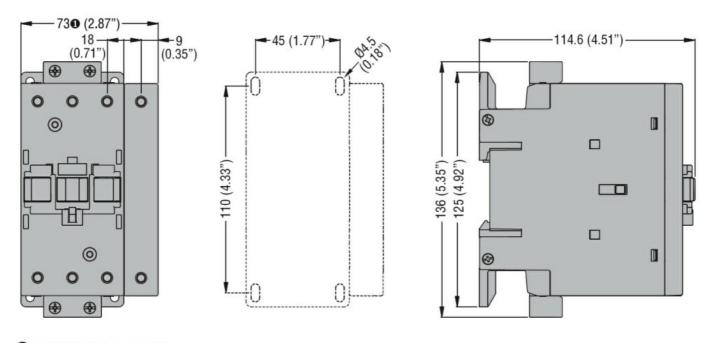
Mechanical features			
Operating position			
	normal allowable		Vertical plan ±30°
Fixing			Screw / DIN rail 35mm
Weight		g	1280
Conductor section			
AWG/kcmil conductor section			
	max		2
Operations			
Mechanical life		cycles	15000000
Safety related data			
Performance level B10d according to EN/ISO 13489-1	manahanian land	مامام	4500000
TMC compatibility	mechanical load	cycles	15000000
EMC conjugation			yes
AC coil operating Rated AC voltage at 50/60Hz, 60Hz			
1. Ca. Ca 7. Co Voltago at 00/001 12, 001 12	min	V	100
	max	V	250
AC operating voltage	.nex		
of 50/60Hz coil powered at 50Hz			
pick-up			
	min	%Us	80 Us min
	max	%Us	110 Us max
drop-out			
	max	%Us	≤70 Us min
of 50/60Hz coil powered at 60Hz			
pick-up		0/11-	00.11
	min	%Us %Us	80 Us min 110 Us max
drop-out	max	%08	110 US Max
αιορ-οαι	max	%Us	≤70 Us min
AC average coil consumption at 20°C	тих	7000	=70 00 111111
of 50/60Hz coil powered at 50Hz			
o. oo, oo, 12 oo, po, 10 oo 12	in-rush	VA	35120
	holding	VA	1.53.7
of 50/60Hz coil powered at 60Hz			
•	in-rush	VA	35120
	holding	VA	1.53.7
of 60Hz coil powered at 60Hz			
	in-rush	VA	210
D: : : :: : : : : : : : : : : : : : : :	holding	VA	15
Dissipation at holding ≤20°C 50Hz		W	12.5
DC coil operating			
DC rated control voltage	min	\/	100
	min may	V V	100 250
DC operating voltage	max	V	200
pick-up			
ριοίτ αρ	min	%Us	≤80 Us min
	max	%Us	≤110 Us max
drop-out		-	



DÖRT-KUTUP KONTAKTÖR, 80A/1000V DC1, AC/DC BOBİN, 100-250VAC/DC

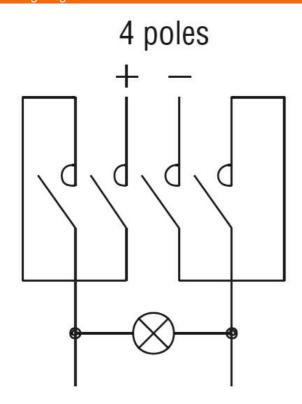
			max	%Us	≤70 Us min
Average coil consumption ≤20°C					
			in-rush	W	2368
			holding	W	1.21.9
Max cycles frequency					
Mechanical operation				cycles/h	1500
Operating times					
Average time for Us co					
	in AC				
		Closing NO			4.0
			min	ms	40
		0	max	ms	85
		Opening NO			00
			min	ms	20
	DO		max	ms	55
	in DC	Clasias NO			
		Closing NO	min	m.a	40
			min	ms	40
		Opening NO	max	ms	85
		Opening NO	min	ms	20
			max	ms	55
UL technical data			IIIdx	1113	33
General USE					
	Contactor				
	Contactor		AC current	Α	115
	4 poles in series DC1				
	. po.00 0000 2 0 .		600V	Α	100
Ambient conditions					
Temperature					
•	Operating temperature				
	. 5		min	°C	-40
			max	°C	70
	Storage temperature				
			min	°C	-50
			max	°C	80
Max altitude				m	3000
Resistance & Protection	on				
Pollution degree					3
Dimensions					

ENERGY AND AUTOMATION



BF80T2 82mm/3.23"

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





DÖRT-KUTUP KONTAKTÖR, 80A/1000V DC1, AC/DC BOBİN, 100-250VAC/DC

Certificates

cULus

ETIM classification

ETIM 8.0

EC002552 -Power contactor, DC switching