



Product designation Product type designation			Power contactor BF80
Contact characteristics			2.00
Number of poles		Nr.	4
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		А	115
Operational current le			
	AC-1 (≤40°C)	А	115
	AC-1 (≤55°C)	А	95
	AC-1 (≤70°C)	А	80
	AC-3 (≤440V ≤55°C)	А	80
	AC-4 (400V)	Α	38
Rated operational current AC-3 (T≤55°C)			
	230V	А	80
	400V	А	80
	415V	А	80
	440V	А	80
	500V	А	78
	690V	А	57
	1000V	A	28
Rated operational power AC-1 (T≤40°C)			
	230V	kW	43
	400V	kW	76
	500V	kW	95
	690V	kW	120
IEC max current le in DC1 with $L/R \le 1$ ms with 1 poles in series		-	
	≤24V	A	70
	48V	A	60
	75V	A	60
	110V	A	8
$\frac{1}{100}$ may assume the in DO4 with $\frac{1}{100}$ dues with 0 makes in coving	220V	A	_
IEC max current le in DC1 with $L/R \le 1$ ms with 2 poles in series	<2417	^	100
	≤24V	A	100
	48V	A	100
	75V 110V	A	100
	220V	A	80 0
IEC max current le in DC1 with $L/R \le 1$ ms with 3 poles in series	2200	A	9
	≤24V	۸	100
	≤24∨ 48V	A A	100
	48 V 75 V	A	
	707	A	100

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	110V	А	85
	220V	А	95
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series			
	≤24V	А	100
	48V	А	100
	75V	А	100
	110V	А	100
	220V	А	115
IEC max current le in DC3-DC5 with L/R $\leq$ 15ms with 1 poles in series			
	≤24V	А	40
	48V	А	30
	75V	А	30
	110V	А	3
	220V	Α	_
IEC max current le in DC3-DC5 with L/R $\leq$ 15ms with 2 poles in series			
	≤24V	А	60
	48V	А	50
	75V	А	50
	110V	А	40
	220V	А	5
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series			
	≤24V	А	80
	48V	А	70
	75V	А	70
	110V	А	60
	220V	А	64
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series			
	≤24V	А	90
	48V	А	90
	75V	А	90
	110V	А	75
	220V	А	80
Short-time allowable current for 10s (IEC/EN60947-1)		А	640
Protection fuse			
	gG (IEC)	А	125
	aM (IEC)	А	80
Making capacity (RMS value)		А	800
Breaking capacity at voltage			
	440V	А	640
	500V	А	625
	690V	А	456
Resistance per pole (average value)		mΩ	0.6
Power dissipation per pole (average value)			
	Ith	W	7.9
	AC-3	W	3.8
Tightening torque for terminals			
	min	Nm	4
	max	Nm	5
	min	lbin	2.95
	max	Ibin	3.69
Tightening torque for coil terminal			
	min	Nm	0.8
	max	Nm	1

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0 50

		min	lbin	0.59
		max	lbin	0.74
Max number of wires	s 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			
		min	mm²	1.5
		max	mm²	35
	ection according to IEC/EN 60529			IP20 front
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN rail
				35mm
Weight			g	1280
Conductor section				
	AWG/kcmil conductor section			
		max		2
Operations				
Mechanical life			cycles	15000000
Electrical life			cycles	1300000
Cofety related data				

Safety related data Performance level B10d according to EN/ISO 13489-1

mechanical load min max	cycles V	15000000 yes yes 60
	-	yes
	-	
	-	60
	-	60
	-	60
max	× /	
	V	110
min	%Us	80 Us min
max	%Us	110 Us max
max	%Us	≤70 Us min
min		80 Us min
max	%Us	110 Us max
max	%Us	≤70 Us min
in-rush	VA	35120
holding	VA	1.53.7
	min max max min max max max	min %Us max %Us max %Us min %Us max %Us max %Us max %Us

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of 50/60Hz coil powered at 60Hz

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			in-rush	VA	35120
			holding	VA	1.53.7
	of 60Hz coil pov	wered at 60Hz			
			in-rush	VA	210
			holding	VA	15
Dissipation at holding	a ≤20°C 50Hz			W	12.5
DC coil operating	g =20 0 00112				1
C rated control volt	200				
	aye		min	V	60
			min	V	60
			max	V	110
C operating voltage					
	pick-up				
			min	%Us	80 Us min
			max	%Us	110 Us max
	drop-out				
			max	%Us	≤70 Us min
verage coil consun	nption ≤20°C				
<b>.</b>	•		in-rush	W	2368
			holding	W	1.21.9
lax cycles frequenc	V			vv	1.21.0
lechanical operation				cycles/h	1500
perating times	I			cycles/I	1300
	eentrel				
verage time for Us					
	in AC				
		Closing NO			
			min	ms	40
			max	ms	85
		Opening NO			
			min	ms	20
			max	ms	55
	in DC				
		Closing NO			
		0.00g	min	ms	40
			max	ms	85
		Opening NO	Шах	1113	00
		Opening NO	min	<b>m</b> o	20
			min	ms	20
			max	ms	55
L technical data					
ull-load current (FL	A) for three-phase /	AC motor			
			at 480V	A	77
			at 600V	А	77
ielded mechanical	performance				
	for three-phase	AC motor			
	-		200/208V	HP	25
			220/230V	HP	30
			460/480V	HP	60
			575/600V	HP	75
eneral USE			010/000V	111	
	Contactor				
	Contactor				445
			AC current	A	115
Short-circuit protecti					
	High fault				
			Short circuit current	kA	100

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ENERGY AND AUTOMATION					
		Fuse rating Fuse class	А	200 J	
	Standard fault	Short circuit current Fuse rating Fuse class	kA A	10 200 RK5	
Ambient conditions					
Temperature	Operating temperature	min max	℃ ℃	-40 70	
	Storage temperature	min max	2° 2° 2°	-50 80	
Max altitude		IIIdA	 	3000	
Resistance & Protection	n			0000	
Pollution degree Dimensions				3	
		136 (5.35") 125 (4.92")	]		
Wiring diagrams					

## Certifications and compliance

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## 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	
Certificates		
	CCC	
	cULus	
ETIM classification		
		EC000066 -

**ETIM 8.0** 

EC000066 -Power contactor, AC switching