



			alles .
Product designation			Power contactor
Product type designation			BF230
Contact characteristics			
Number of poles		Nr.	4
Rated insulation voltage Ui IEC/EN		V	1000
Rated impulse withstand voltage Uimp		kV	8
Operational frequency			0
operational nequency	min	Hz	25
		Hz	400
IEC Conventional free air thermal current Ith	max		
		A	350
Operational current le			050
	AC-1 (≤40°C)	A	350
	AC-1 (≤55°C)	A	290
	AC-1 (≤70°C)	A	250
	AC-3 (≤440V ≤55°C)	Α	230
	AC-4 (400V)	A	110
Rated operational current AC-3 (T≤55°C)			
	230V	А	230
	400V	А	230
	415V	А	230
	440V	А	230
	500V	А	184
	690V	А	165
	1000V	Α	100
Rated operational power AC-1 (T≤40°C)			
	230V	kW	132
	400V	kW	230
	500V	kW	253
	690V	kW	397
IEC max current le in DC1 with $L/R \le 1$ ms with 1 poles in series			
	≤24V	А	350
	48V	А	350
	75V	А	350
	110V	А	145
	220V	А	_
IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series			
	≤24V	А	350
	48V	A	350
	75V	A	350
	110V	A	270
	220V	A	225
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series	2201	Л	220
	≤24V	۸	350
	≤24∨ 48V	A	
		A	350 350
	75V	A	350

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4-POLIGES SCHÜTZ, IEC BETRIEBSSTROM LTH (AC1) = 350A, AC/DC-SPULE, 100... 250VAC/DC

	110V	Α	270
	220V	А	270
	330V	А	225
IEC max current le in DC1 with L/R $\leq$ 1ms with 4 poles in series			
	≤24V	۸	350
		A	
	48V	Α	350
	75V	A	350
	110V	Α	350
	220V	Α	350
IEC max current le in DC3-DC5 with L/R $\leq$ 15ms with 1 poles in series			
	≤24V	А	350
	48V	А	350
	75V	А	250
	110V	A	135
	220V	A	100
IFC may summant to in DC2 DC5 with 1/D < 15 may with 2 males in parise	220 V	A	_
IEC max current le in DC3-DC5 with L/R $\leq$ 15ms with 2 poles in series			
	≤24V	A	350
	48V	A	350
	75V	Α	250
	110V	А	225
	220V	А	180
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series			
	≤24V	А	350
	48V	A	350
	48V 75V		
		A	250
	110V	A	250
	220V	A	225
	330V	A	180
IEC max current le in DC3-DC5 with L/R $\leq$ 15ms with 4 poles in series			
	≤24V	Α	350
	48V	А	350
	75V	А	250
	110V	А	250
	220V	A	225
	330V	A	210
	460V	A	180
Short-time allowable current for 10s (IEC/EN60947-1)		Α	1840
Protection fuse	-		
	gG (IEC)	A	400
	aM (IEC)	Α	250
Making capacity (RMS value)		А	2300
Breaking capacity at voltage			
	440V	А	1840
	500V	A	1472
	690V	A	1296
Resistance per pole (average value)	0001	mΩ	0.18
Power dissipation per pole (average value)		11122	0.10
rower ussipation per pole (average value)	141	1.4.7	04
	Ith	W	21
	AC-3	W	9.3
Tightening torque for terminals			
	min	Nm	18
	max	Nm	18
	min	lbin	159
	max	Ibin	159
	max		

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Tightening torque for c				
rightening torque for d		min	Nm	0.8
		max	Nm	1
Power terminal protect	tion according to IEC/EN 60529	Пах		IP00
Mechanical features				11 00
Operating position				
operating peerion		normal		Vertical plan
		allowable		±30°
Fixing				Screw
Weight			g	4000
Operations			9	1000
Mechanical life			cycles	10000000
Electrical life			cycles	1000000
Safety related data			0,0100	1000000
-	0d according to EN/ISO 13489-1			
		rated load	cycles	1000000
EMC compatibility			0,0100	yes
AC coil operating				,
Rated AC voltage at 5	0/60Hz, 60Hz			
		min	V	100
		max	v	250
AC operating voltage		Пах	•	200
rie operating reliage	of 50/60Hz coil powered at 50Hz			
	pick-up			
	piere op	min	%Us	80 Us min
		max	%Us	110 Us max
	drop-out	Шах	/000	110 03 114
		max	%Us	≤70 Us min
	of 50/60Hz coil powered at 60Hz		,	
	pick-up			
	P 6P	min	%Us	80 Us min
		max	%Us	110 Us max
	drop-out		,	
		max	%Us	≤70 Us min
AC average coil consu	Imption at 20°C		,	
	of 50/60Hz coil powered at 50Hz			
		in-rush	VA	160230
		holding	VA	1.53.0
	of 50/60Hz coil powered at 60Hz			
	····	in-rush	VA	160230
		holding	VA	1.53.0
	of 60Hz coil powered at 60Hz	g_		
	· · · · · · · · · · · · · · · · · · ·	in-rush	VA	160230
		holding	VA	1.53.0
Dissipation at holding:	≤20°C 50Hz	lioioing	W	1.53.0
DC coil operating				
DC rated control voltage				
		min	V	100
		max	v	250
DC operating voltage		Пах	•	
operating rollage	pick-up			
	how ab	min	%Us	85 Us min
		max	%Us	110 Us max
		max	,000	110 00 110

BF230T4E230

OVE electric ENERGY AND AUTOMATION

BF230T4E230 4-POLIGES SCHÜTZ, IEC BETRIEBSSTROM LTH (AC1) = 350A, AC/DC-SPULE, 100... 250VAC/DC

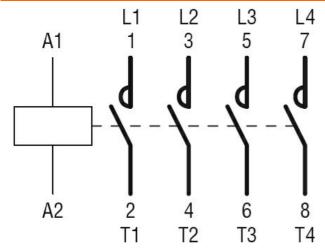
	drop-out		0/110	<70 110 min
Average coil consumpt	on <20°C	max	%Us	≤70 Us min
Average con consumpt		in-rush	W	160230
		holding	Ŵ	1.53.0
Max cycles frequency				
Mechanical operation			cycles/h	1000
Operating times				
Average time for Us co	ntrol			
	in AC			
	Closing No	2		
		min	ms	50
		max	ms	100
	Opening N			0.0
		min	ms	30
		max	ms	75
UL technical data Yielded mechanical per	formance			
neided mechanical per	for three-phase AC motor			
	tor three-phase AC motor	200/208V	HP	75
		220/230V	HP	75
		460/480V	HP	150
		575/600V	HP	200
General USE				
	Contactor			
		AC current	А	350
Short-circuit protection	fuse, 600V			
	High fault			
		Short circuit current	kA	100
		Fuse rating	А	400
		Fuse class		J
	Standard fault			
		Short circuit current	kA	10
		Fuse rating	А	400 DK5
Ambient conditions		Fuse class		RK5
Temperature				
remperature	Operating temperature			
		min	°C	-40
		max	°C	70
	Storage temperature	max	~	
		min	°C	-50
		max	°Č	80
Max altitude			m	3000
Resistance & Protectio	n			
Pollution degree				3
Dimensions				

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140 (5.51") 149 (5.87") 5 (0.20") (1.38") (1.38") (2.75") 112 (4.41") 0 0 0 0 b O 0 G Œ 民 四 四 Ð 0 0 ⊕ Г 177 (6.97") Ē 128 (5.04") 187 (7.36") 169 (6.65") 193 (7.60") €0—□ E • 0 . \$5.4 (0.21") 昭 日日 Œ C 0 0 Ø8.5 (0.33") 128 (5.04") --18-(0.71") \_\_\_\_35 \_\_\_ (1.38\*)

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	
Certificates		
	cULus	
ETIM classification		
		EC000066 -
		Dower contector

Power contactor, AC switching

**ETIM 8.0**