



Product designation Product type designation			Power contactor 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			
	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current Ith		Α	350
Operational current le			
	AC-1 (≤40°C)	Α	350
	AC-1 (≤55°C)	Α	290
	AC-1 (≤70°C)	Α	250
	AC-3 (≤440V ≤55°C)	Α	230
	AC-4 (400V)	Α	110
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 ≤ 1ms with 1 poles in series			
	≤24V	Α	350
	48V	Α	350
	75V	Α	350
	110V	Α	145
	220V	Α	_
IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series			
	≤24V	Α	350
	48V	Α	350
	75V	Α	350
	110V	Α	270
	220V	Α	225
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series			
	≤24V	Α	350
	48V	Α	350
	75V	Α	350
	110V	Α	270
	220V	Α	270
	330V	Α	225
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series			
	≤24V	Α	350
	48V	Α	350
	751		050
	75V 110V	Α	350



BF230T4E110

	220V	Α	350
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series			
	≤24V	Α	350
	48V	Α	350
	75V	Α	250
	110V	Α	135
	220V	Α	_
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series			
	≤24V	Α	350
	48V	Α	350
	75V	Α	250
	110V	Α	225
	220V	Α	180
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series			
	≤24V	Α	350
	48V	Α	350
	75V	Α	250
	110V	A	250
	220V	A	225
	330V	A	180
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series	330 V		100
TEC max current le in DC3-DC3 with L/R \(\) 13ms with 4 poles in series	<24)/	۸	250
	≤24V 48V	A	350
		A	350
	75V	A	250
	110V	A	250
	220V	A	225
	330V	A	210
01 47 11 11 40 (150/51)000 (7.4)	460V	A	180
Short-time allowable current for 10s (IEC/EN60947-1)		Α	1840
Protection fuse	a (1= a)	_	
	gG (IEC)	Α	400
	aM (IEC)	Α	250
Making capacity (RMS value)		Α	2300
Breaking capacity at voltage			
	440V	Α	1840
	500V	Α	1472
	690V	Α	1296
Resistance per pole (average value)		mΩ	0.18
Power dissipation per pole (average value)			
	Ith	W	21
	AC3	W	9.3
Tightening torque for terminals			
	min	Nm	18
	max	Nm	18
	min	lbin	159
	max	Ibin	159
Tightening torque for coil terminal	11102		
g	min	Nm	0.8
	max	Nm	1
Power terminal protection according to IEC/EN 60529	Παλ	CNLLL	IP00
Mechanical features			IF UU
Operating position			\/
	normal		Vertical plan



BF230T4E110

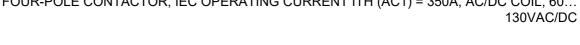
		allowable		±30°
Fixing				Screw
Weight			g	4000
Operations				
Mechanical life			cycles	10000000
Electrical life			cycles	1000000
Safety related data				
Performance level B10	Od according to EN/ISO 13489-1			
	-	rated load	cycles	1000000
EMC compatibility				yes
AC coil operating				
Rated AC voltage at 5	0/60Hz, 60Hz			
J	,	min	V	60
		max	V	130
AC operating voltage				
re speraming remage	of 50/60Hz coil powered at 50Hz			
	pick-up			
	γιον αρ	min	%Us	80 Us min
		max	%Us	110 Us max
	drop-out	max	7000	110 00 max
	diop out	max	%Us	≤70 Us min
	of 50/60Hz coil powered at 60Hz	Пах	7000	=70 00 111111
	pick-up			
	ριοίτ αρ	min	%Us	80 Us min
		max	%Us	110 Us max
	drop-out	Hax	7003	110 03 max
	diop out	max	%Us	≤70 Us min
AC average coil consu	umntion at 20°C	παλ	7003	270 03 11111
Ac average con consc	of 50/60Hz coil powered at 50Hz			
	of 30/00112 con powered at 30112	in-rush	VA	160230
		holding	VA	1.53.0
	of 50/60Hz coil powered at 60Hz	riolaling	VA	1.55.0
	of 30/00112 con powered at 00112	in-rush	VA	160230
		holding	VA	1.53.0
	of 60Hz coil powered at 60Hz	riolality	VA	1.55.0
	or our iz our powered at our iz	in-rush	VA	160230
		holding	VA VA	1.53.0
Discipation at holding	<20°C 50H ₇	noiding	W	1.53.0
Dissipation at holding: DC coil operating	<u></u> 20 ∪ JUI IZ		V V	1.JJ.U
DC rated control voltage	70			
יסר ומופט מסווווסו volta(y c	ma!m	V	60
		min	V V	130
DC operating valtage		max	V	130
DC operating voltage	niak un			
	pick-up		0/11-	OE I lo min
		min	%Us	85 Us min
	dana and	max	%Us	110 Us max
	drop-out		0/11-	<70 H
A	L. 400°O	max	%Us	≤70 Us min
Average coil consump	tion ≤20°C			400 000
		in-rush	W	160230
		holding	W	1.53.0
Max cycles frequency				
Mechanical operation			cycles/h	1000

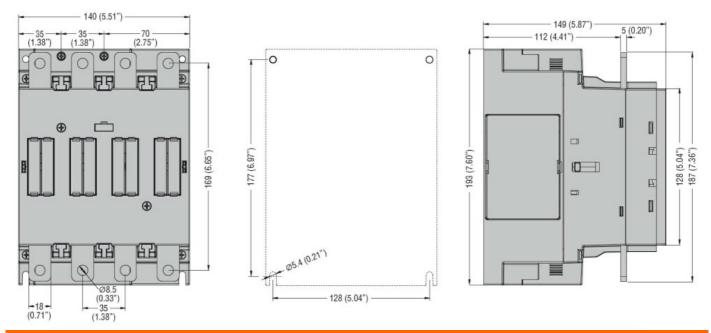


Operating times				
Average time for Us of	ontrol			
-	in AC			
	Closing NO			
	Ţ.	min	ms	50
		max	ms	100
	Opening NO			
		min	ms	30
		max	ms	75
UL technical data				
Yielded mechanical pe	erformance			
	for three-phase AC motor			
		200/208V	HP	75
		220/230V	HP	75
		460/480V	HP	150
		575/600V	HP	200
General USE				
	Contactor			
		AC current	Α	350
Short-circuit protection	n fuse, 600V			
	High fault			
		Short circuit current	kA	100
		Fuse rating	Α	400
		Fuse class		J
	Standard fault			
		Short circuit current	kA	10
		Fuse rating	Α	400
		Fuse class		RK5
Ambient conditions				
Temperature				
	Operating temperature			
		min	°C	-40
		max	°C	70
	Storage temperature			
		min	°C	-50
		max	°C	80
Max altitude			m	3000
Resistance & Protecti	on			
Pollution degree				3
Dimensions				

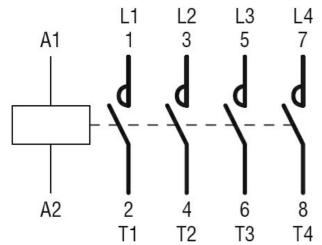
ENERGY AND AUTOMATION

FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 350A, AC/DC COIL, 60...





Wiring diagrams



Certifications and compliance

Certificates

cULus

ETIM classification

ETIM 8.0

EC000066 -Power contactor, AC switching