

THREE-POLE CONTACTOR, WITH MAGNETIC LATCHING, OPERATING CURRENT ITH (AC1) 350A, COIL 230VAC/DC



Product designation Product type designation			Power contactor BF230
Contact characteristics			
Number of poles		Nr.	3
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)	A	110
Rated operational power AC-3 (T≤55°C)			
	230V	kW	55
	400V	kW	110
	415V	kW	110
	440V	kW	132
	500V	kW	132
	690V	kW	160
	1000V	kW	132
Rated operational current AC-3 (T≤55°C)			
	230V	Α	230
	400V	Α	230
	415V	Α	230
	440V	Α	230
	500V	Α	184
	690V	Α	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 ≤ 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



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	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
	75V	Α	350
	110V	Α	350
	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	Α	250
	220V	Α	225
	330V	Α	180
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series			
·	≤24V	Α	350
	48V	Α	350
	75V	Α	250
	110V	Α	250
	220V	Α	225
	330V	Α	210
	460V	Α	180
Short-time allowable current for 10s (IEC/EN60947-1)		Α	1840
Protection fuse			
	gG (IEC)	Α	400
	aM (IEC)	Α	315
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



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Power dissipation per pole (average value)			
	Ith	W	21
	AC-3	W	9.3
Tightening torque for terminals			
	min	Nm	18
	max	Nm	18
	min	lbin	159
	max	lbin	159
Tightening torque for coil terminal		N. I	0.0
	min	Nm	0.8
	max	Nm	1
	min	lbin Ibin	7,1 8,8
Power terminal protection according to IEC/EN 60529	max	IDIII	IP00
Mechanical features			11-00
Operating position			
	normal		Vertical plan
	allowable		±30°
Fixing	anovidato		Screw
Weight		g	3000
Operations		9	
Mechanical life		cycles	1000000
Electrical life		cycles	1000000
Safety related data			
Performance level B10d according to EN/ISO 13489-1			
-	rated load	cycles	1000000
	mechanical load	cycles	1000000
EMC compatibility			yes
AC coil operating			
Rated AC voltage at 50/60Hz, 60Hz			
	min	V	230
	max	V	230
AC operating voltage			
of 50/60Hz coil powered at 50Hz			
pick-up			
	min	%Us	80 Us
don a sud	max	%Us	110 Us
drop-out	me:	0/110	<70 Ha
of En/EnHz soil navered at EnHz	max	%Us	≤70 Us
of 50/60Hz coil powered at 60Hz			
pick-up	min	%Us	80 Us
	max	%Us	110 Us
drop-out	IIIdA	/0 U 3	110 03
diop out	max	%Us	≤70 Us
AC average coil consumption at 20°C	max	,,,,,	
of 50/60Hz coil powered at 50Hz			240 along 425
of 50/60Hz coil powered at 50Hz			240 CIOSE - 175
of 50/60Hz coil powered at 50Hz	in-rush	VA	240 close - 125 open
of 50/60Hz coil powered at 50Hz			open
	in-rush holding	VA VA	
of 50/60Hz coil powered at 50Hz	holding	VA	
			open -



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	of 60Hz coil powered a	t 60Hz			
			in-rush	VA	240 close - 125
					open
Dissipation at holding:	<20°C 50∐-7		holding	W VA	-
DC coil operating	≥20 C 30HZ			VV	-
DC rated control voltage	ne				
Do ratou control voltas	90		min	V	230
			max	V	230
DC operating voltage					
	pick-up				
			min	%Us	85 Us
			max	%Us	110 Us
	drop-out				
			max	%Us	≤70 Us
Average coil consump	tion ≤20°C				
			in-rush	W	240 close - 125
			holding	۱۸/	open
Max cycles frequency			holding	W	-
Mechanical operation				cycles/h	500
Operating times				Cycles/11	300
Average time for Us co	ontrol				
,	in AC				
		Closing NO			
		3	min	ms	37
			max	ms	47
		Opening NO			
			min	ms	41
			max	ms	51
UL technical data					
Rated operational volta				V	600
Yielded mechanical pe					
	for three-phase AC mo	tor	200/2001	LID	7.5
			200/208V 220/240V	HP HD	75 75
			220/240V 460/480V	HP HP	75 150
			575/600V	HP	200
General USE			373/0001	111	200
Conordi COL	Contactor				
	5050.01		AC current	Α	350
Short-circuit protection	n fuse, 600V		2 333		
,	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	0				
	Operating temperature		٠.٠	°C	40
			min	°C	-40



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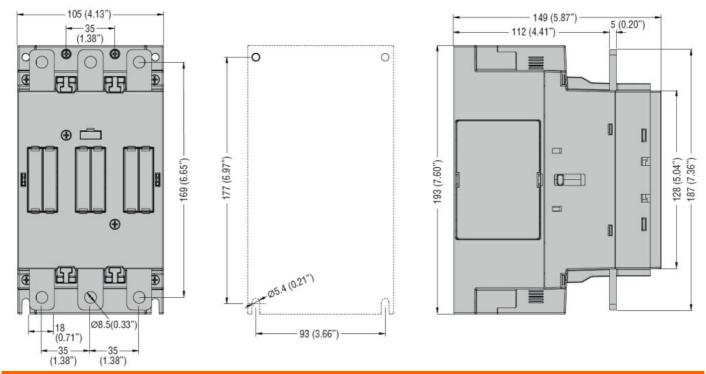
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	max	°C	70
Storage temperature			
	min	°C	-50
	max	°C	80
Max altitude		m	3000

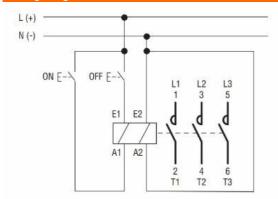
Resistance & Protection

Pollution degree

Dimensions



Wiring diagrams



Certifications and compliance

Compliance

IEC/EN/BS 60947-1

IEC/EN/BS 60947-4-1

ETIM classification

ETIM 8.0

EC000066 -Power contactor, AC switching