



Product designation Power contactor Product type designation BF230 Contact characteristics Number of poles Nr. 4 Rated insulation voltage Ui IEC/EN ٧ 1000 k√ Rated impulse withstand voltage Uimp 8 Operational frequency min Ηъ 25 max Hz 400 IEC Conventional free air thermal current Ith 350 Α 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) 110 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 100 Α 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 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	A	250
	110V	A	135
	220V	A	- -
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series	220 V		
ILC max current le in DC3-DC3 with L/N 3 13ms with 2 poles in series	≤24V	Α	350
	≤24 V 48 V	A	350
	48 V 75 V		
		A	250
	110V	A	225
150	220V	A	180
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series	40.4V./	Δ.	050
	≤24V	A	350
	48V	Α	350
	75V	Α	250
	110V	Α	250
	220V	Α	225
	330V	A	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	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
	AC-3	W	9.3
Tightening torque for terminals			
	min	Nm	18
	max	Nm	18
	min	lbin	159
	max	lbin	159
	Παλ	IDIII	100





Tightening torque for coil terminal			
	min	Nm	0.8
	max	Nm	1
Power terminal protection according to IEC/EN 60529			IP00
Mechanical features			
Operating position			
	normal		Vertical plan
	allowable		±30°
Fixing			Screw
Weight		g	4000
Operations			
Mechanical life		cycles	10000000
Electrical life		cycles	1000000
Safety related data			
Performance level B10d according to EN/ISO 13489-1			
	rated load	cycles	1000000
EMC compatibility			yes
AC coil operating			
Rated AC voltage at 50/60Hz, 60Hz			
	min	V	60
	max	V	130
AC operating voltage			
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			
' '	min	%Us	80 Us min
	max	%Us	110 Us max
drop-out			
	max	%Us	≤70 Us min
AC average coil consumption at 20°C		,,,,,	
of 50/60Hz coil powered at 50Hz			
01 00/00112 0011 powered at 00112	in-rush	VA	160230
	holding	VA	1.53.0
of 50/60Hz coil powered at 60Hz	Holding	٧, ١	1.00.0
31 30/001 12 0011 powered at 001 12	in-rush	VA	160230
	holding	VA	1.53.0
of 60Hz coil powered at 60Hz	Tiolding	٧,١	7.00.0
31 001 12 0011 powerou at 001 12	in-rush	VA	160230
	holding	VA	1.53.0
Dissipation at holding ≤20°C 50Hz	Tiolding	W	1.53.0
DC coil operating		V V	1.00.0
DC rated control voltage			
Do rated control voltage	min	V	60
	max	V	130
C aparating valtage			
DC operating voltage pick-up		0/11-	05 He
	min max	%Us %Us	85 Us min 110 Us max

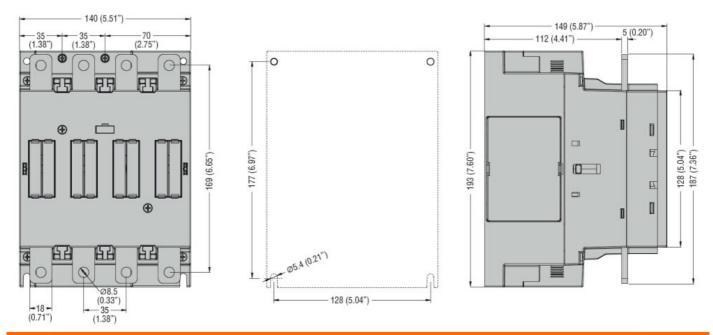




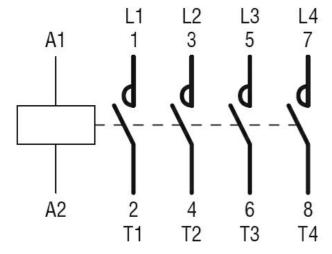
drop-out				
<u> </u>		max	%Us	≤70 Us min
Average coil consumption ≤20°C				
		in-rush	W	160230
		holding	W	1.53.0
Max cycles frequency				
Mechanical operation			cycles/h	1000
Operating times				
Average time for Us control				
in AC	Obstan NO			
	Closing NO			50
		min	ms	50
	Opening NO	max	ms	100
	Opening NO	min	ms	30
		max	ms	75
UL technical data		IIIdA	1110	. 5
Yielded mechanical performance				
-	phase AC motor			
	p. 1000 / 10 111010.	200/208V	HP	75
		220/230V	HP	75
		460/480V	HP	150
		575/600V	HP	200
General USE				
Contacto	r			
		AC current	Α	350
Short-circuit protection fuse, 600\	V			
High fault	t			
		Short circuit current	kA	100
		Fuse rating	Α	400
		Fuse class		J
Standard	fault			4.0
		Short circuit current	kA	10
		Fuse rating	Α	400 BKF
Ambient conditions		Fuse class		RK5
Ambient conditions Temperature				
	g temperature			
Operating	y temperature	min	°C	-40
		max	°C	70
Storage t	emperature	IIIAX		. •
Clorage t		min	°C	-50
		max	°C	80
Max altitude			m	3000
Resistance & Protection				
Pollution degree				3
Dimensions				

ENERGY AND AUTOMATION

CONTACTOR 4 POLI, IEC CURENT OPERARE ITH (AC1) = 350A, AC/DC BOBINA, 60... 130VAC/DC



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

ETIM 8.0

EC000066 -Power contactor, AC switching