electric CONTACTOR 4 POLI, IEC CURENT OPERARE ITH (AC1) = 350A, AC/DC BOBINA, 24...60VAC -20...60VDC ENERGY AND AUTOMATION



			de co
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			
Operational frequency	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current Ith	IIIdA	A	350
Operational current le		^	330
Operational current le	AC 1 (<10°C)	۸	250
	AC-1 (≤40°C)	A	350
	AC-1 (≤55°C)	A	290
	AC-1 (≤70°C)	A	250
	AC-3 (≤440V ≤55°C)	A	230
	AC-4 (400V)	A	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	A	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
	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			
p	≤24V	Α	350
	48V	Α	350
	75V	Α	350
	. 3 v	- •	200



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	110V	Α	270
	220V	Α	270
	330V	Α	225
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series			
120 man same m 20 man 2, n = ma man n person n semes	≤24V	Α	350
	48V	Α	350
	75V	A	350
	110V	A	350
	220V	A	350
IFC may current to in DC2 DC5 with L/D < 15mg with 1 notes in series	220 V	A	330
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series	<0.417	۸	250
	≤24V	A	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	A	250
	110V	A	250
	220V	A	225
150 DOO DOO 111 L/D 445 111 4 1 1 1 1	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	250
Making capacity (RMS value)	()	A	2300
Breaking capacity at voltage			
	440V	Α	1840
	500V	A	1472
	690V		1296
Pacietanea par pala (avaraga valua)	0907	A mO	
Resistance per pole (average value)		mΩ	0.18
Power dissipation per pole (average value)	141	147	24
	Ith	W	21
	AC-3	W	9.3
Tightening torque for terminals			
	min	Nm	18
	max	Nm	18
	min	lbin	159
	max	lbin	159

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Tightening torque for c	oil terminal			
		min	Nm	0.8
		max	Nm	1
	tion 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 B10	Od according to EN/ISO 13489-1			
		rated load	cycles	1000000
EMC compatibility				yes
AC coil operating				
Rated AC voltage at 50	0/60Hz, 60Hz			
-		min	V	24
		max	V	60
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 consu	imption at 20°C			
Ü	of 50/60Hz coil powered at 50Hz			
	•	in-rush	VA	160230
		holding	VA	1.53.0
	of 50/60Hz coil powered at 60Hz	<u>_</u>		
	r	in-rush	VA	160230
		holding	VA	1.53.0
	of 60Hz coil powered at 60Hz			
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	in-rush	VA	160230
		holding	VA	1.53.0
Dissipation at holding :	≤20°C 50Hz	9	W	1.53.0
DC coil operating				2 2.0
DC rated control voltage	ne			
	, -	min	V	20
		max	V	60
DC operating voltage		IIIdX	v	
Do operating voltage	pick-up			
	ριοκ-αμ	min	%Us	85 Us min
		max	%Us	110 Us max
		IIIAX	/003	110 03 max



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CONTACTOR 4 POLI, IEC CURENT OPERARE ITH (AC1) = 350A, AC/DC BOBINA, 24...60VAC -20...60VDC

drop-out max %Us ≤70 Us min Average coil consumption ≤20°C in-rush W 160...230 holding W 1.5...3.0 Max cycles frequency Mechanical operation 1000 cycles/h Operating times Average time for Us control in AC Closing NO 50 min ms 100 max ms Opening NO min ms 30 75 max ms UL technical data Yielded mechanical performance for three-phase AC motor 200/208V HP 75 220/230V HP 75 460/480V ΗP 150 575/600V HP 200 General USE Contactor AC current 350 Short-circuit protection fuse, 600V High fault Short circuit current kΑ 100 Fuse rating Α 400 Fuse class J Standard fault Short circuit current 10 kΑ 400 Fuse rating Α

A 1			
$1\Delta m$	niani	condi	itione :
-		. cona	เมษาอ

Temperature

Operating temperature

	HIIII	C	-40	
	max	°C	70	
Storage temperature				
	min	°C	-50	
	max	°C	80	
altitude		m	3000	
istance & Protection				

Fuse class

RK5

Δ٨.

3

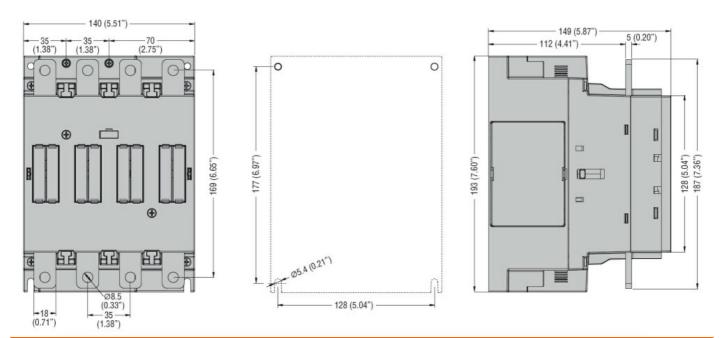
Pollution degree

Dimensions

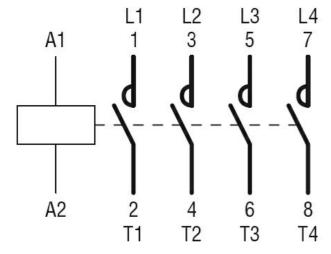
Max

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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