



Product designation Power contactor Product type designation BF400 Contact characteristics Nr. 4 Number of poles Rated insulation voltage Ui IEC/EN ٧ 1000 Rated impulse withstand voltage Uimp kV 8 Operational frequency Нъ 25 min Hz 400 max IEC Conventional free air thermal current Ith 600 Α Operational current le AC-1 (≤40°C) Α 600 AC-1 (≤55°C) Α 500 AC-1 (≤70°C) Α 435 AC-3 (≤440V ≤55°C) Α 400 AC-4 (400V) 190 Rated operational power AC-3 (T≤55°C) kW 230V 110 400V kW 200 415V kW 200 440V kW 200 500V kW 250 690V kW 315 1000V kW 200 Rated operational current AC-3 (T≤55°C) 230V Α 400 400V Α 400 415V Α 400 440V Α 400 500V 350 690V Α 350 1000V Α 155 Rated operational power AC-1 (T≤40°C) 230V kW 227 400V kW 395 500V kW 434 690V kW 681 IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series 75V Α 400 110V Α 250 IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series 75V Α 400 Α 400 110V 220V 350

IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series



	75V	Α	400
	110V	Α	400
	220V	Α	400
	330V	Α	350
EC max current le in DC1 with L/R ≤ 1ms with 4 poles in series			
'	75V	Α	400
	110V	Α	400
	220V	Α	400
EC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series			
20 max can only to in 200 200 may 2/10 - 10 me may 1 period in control	75V	Α	350
	110V	A	200
EC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series	1101		200
EG max current le in DG3-DG3 with E/N = 13ms with 2 poles in series	75V	۸	350
	110V	A	
		A	350
FO	220V	Α	280
EC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series	75)	•	0.50
	75V	A	350
	110V	A	350
	220V	Α	350
	330V	A	280
EC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series			
	75V	Α	350
	110V	Α	350
	220V	Α	350
	330V	Α	350
	460V	Α	280
Short-time allowable current for 10s (IEC/EN60947-1)		Α	3200
Protection fuse			
	gG (IEC)	Α	800
	aM (IEC)	Α	500
Making capacity (RMS value)		Α	4000
Breaking capacity at voltage			
	440V	Α	3200
	500V	Α	2752
	690V	Α	2504
Resistance per pole (average value)		mΩ	0.12
Power dissipation per pole (average value)			0.12
ower dissipation per pole (average value)	lth	W	43.2
	AC-3	W	19
ightening torque for terminals	AO-3	V V	13
ignitering torque for terminals		Nine	25
	min	Nm Nm	35 35
	max	Nm	35
	min	lbin	310
	max	Ibin	310
ightening 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
	Homai		
	allowable		±30°



Operations			
Mechanical life		cycles	5000000
Electrical life		cycles	600000
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	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 consumption at 20°C			
of 50/60Hz coil powered at 50Hz			
·	in-rush	VA	160320
	holding	VA	3.58.0
of 50/60Hz coil powered at 60Hz			
·	in-rush	VA	160320
	holding	VA	3.58.0
of 60Hz coil powered at 60Hz			
·	in-rush	VA	160320
	holding	VA	3.58.0
Dissipation at holding ≤20°C 50Hz		W	3.58.0
DC coil operating			
DC rated control voltage			
-	min	V	20
	max	V	60
DC operating voltage			
pick-up			
	min	%Us	85 Us min
	max	%Us	110 Us max
drop-out			
·	max	%Us	≤70 Us min
Average coil consumption ≤20°C			
·	in-rush	W	160230
	holding	W	3.58.0
Max cycles frequency			
Mechanical operation		cycles/h	1000
Operating times		- , - · · · ·	
Average time for Us control			

in AC

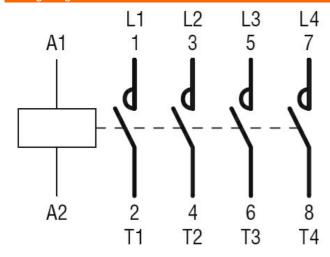


		Closing NO	min	ms	80
		Opening NO	max	ms	120
		, ,	min max	ms ms	30 75
UL technical data					
Yielded mechanical pe					
	for three-phase AC mo	otor	200/2001	HP	125
			200/208V 220/230V	пР HP	150
			460/480V	HP	350
			575/600V	HP	400
General USE					_
	Contactor				
			AC current	Α	600
Short-circuit protection					
	High fault				400
			Short circuit current	kA	100
			Fuse rating Fuse class	Α	600 J
	Standard fault		i use class		<u> </u>
	Otanaara raan		Short circuit current	kA	18
			Fuse rating	Α	600
			Fuse class		RK5
Ambient conditions					
Temperature					
	Operating temperature	;		0.0	40
			min	°C	-40 70
	Storage temperature		max		70
	Storage temperature		min	°C	-50
			max	°C	80
Max altitude				m	3000
Resistance & Protection	on				
Pollution degree Dimensions					3
10,00			•	181.5	
57.5 35	92.5			137.9	5
			•		
⊕	⊗			\neg	n 0
	218-		- 533		168
•	⊕				0 0
	S. Oak	170			

ENERGY AND AUTOMATION

FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 600A, AC/DC COIL, 24...60VAC - 20...60VDC

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