THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 400A, AC/DC COIL, 250... 500VAC/DC **ENERGY AND AUTOMATION**



Product designation Product type designation			Power contactor BF400
Contact characteristics			DI 400
Number of poles		Nr.	3
Rated insulation voltage Ui IEC/EN		V	1000
Rated impulse withstand voltage Uimp		kV	8
Operational frequency			
operational moduloney	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current Ith	max	A	600
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)	Α	190
Rated operational power AC-3 (T≤55°C)	- (/		
1 1 (230V	kW	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	Α	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
	110V	Α	400
	220V	Α	350
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series			



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	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°



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Operations				
Mechanical life			cycles	5000000
Electrical life			cycles	600000
Safety related data			.,	
	d according to EN/ISO 13489-1			
	· ·	rated load	cycles	1000000
EMC compatibility			<u> </u>	yes
AC coil operating				
Rated AC voltage at 50	/60Hz, 60Hz			
		min	V	250
		max	V	500
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 consur				
	of 50/60Hz coil powered at 50Hz			400 000
		in-rush	VA	160320
	(50/0011 "	holding	VA	3.58.0
	of 50/60Hz coil powered at 60Hz			400 000
		in-rush	VA	160320
	of COLLE and provinced at COLLE	holding	VA	3.58.0
	of 60Hz coil powered at 60Hz	in ruch	VA	160320
		in-rush holding	VA VA	3.58.0
Dissipation at holding ≤	20°C €0H-	Holding	W	3.58.0
DC coil operating	20 C 301 IZ		VV	3.36.0
DC rated control voltage	Δ			
DO Taled control voltage	C	min	V	250
		max	V	500
DC operating voltage		IIIdx	v	
20 operating voltage	pick-up			
	F.~ ∾k	min	%Us	85 Us min
		max	%Us	110 Us max
	drop-out		,,,,,,	
	1	max	%Us	≤70 Us min
Average coil consumpti	ion ≤20°C			
g		in-rush	W	160230
		holding	W	3.58.0
Max cycles frequency				
Mechanical operation			cycles/h	1000
Operating times				
Average time for Us con	ntrol			

Average time for Us control

in AC



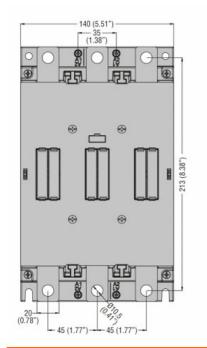
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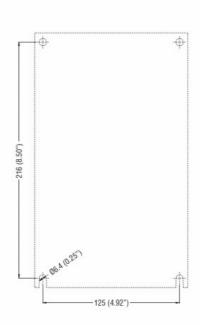
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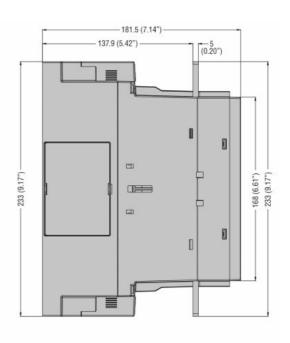
	Closing NO			
	•	min	ms	80
		max	ms	120
	Opening NO			
	· v	min	ms	30
		max	ms	75
UL technical data				
Yielded mechanical pe	rformance			
•	for three-phase AC motor			
	•	200/208V	HP	125
		220/230V	HP	150
		460/480V	HP	350
		575/600V	HP	400
General USE		J. 5, 5 5 1		
00.10.0	Contactor			
	Contactor	AC current	Α	600
Short-circuit protection	fuse 600V	710 darrone	- , ,	
Chort direalt protection	High fault			
	riigiriadit	Short circuit current	kA	100
		Fuse rating	A	600
		Fuse class	^	J
	Standard fault	ruse ciass		J
	Standard fault	Short circuit current	kA	18
			A	600
		Fuse rating	А	
Analaine to a serialities a		Fuse class		RK5
Ambient conditions				
Temperature	O control to a control			
	Operating temperature		0.0	4.0
		min	°C	-40
	-	max	°C	70
	Storage temperature			
		min	°C	-50
		max	°C	80
Max altitude			m	3000
Resistance & Protection				
Pollution degree				3
Dimensions				

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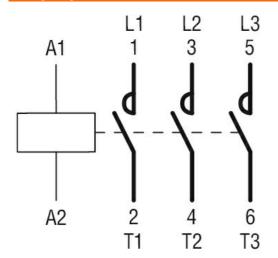
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Wiring diagrams



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