electric FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 250A, AC/DC COIL, 250... 500VAC/DC **ENERGY AND AUTOMATION**



			(45)
Product designation			Power contactor
Product type designation Contact characteristics			BF160
		Nle	1
Number of poles		Nr.	1000
Rated insulation voltage Ui IEC/EN			
Rated impulse withstand voltage Uimp		kV	8
Operational frequency			0.5
	min	Hz	25
1500	max	Hz	400
IEC Conventional free air thermal current Ith		Α	250
Operational current le			
	AC-1 (≤40°C)	Α	250
	AC-1 (≤55°C)	Α	210
	AC-1 (≤70°C)	Α	180
	AC-3 (≤440V ≤55°C)	Α	160
	AC-4 (400V)	Α	75
Rated operational power AC-1 (T≤40°C)			
	230V	kW	95
	400V	kW	165
	500V	kW	181
	690V	kW	284
IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series			
·	≤24V	Α	250
	48V	Α	250
	75V	Α	250
	110V	Α	110
	220V	Α	_
IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series			
The max surrounce in Bot man give a mic man 2 police in control	≤24V	Α	250
	48V	Α	250
	75V	A	250
	110V	A	150
	220V	A	130
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series	220 V		100
TEC max current le in DC1 with E/N 3 mis with 5 poles in series	≤24V	Α	250
	48V	A	250
	46 V 75 V	A	250 250
	110V		160
	220V	A	150
		A	
IFC many assument to in DC4 with 1/D < 4 are with 4 are to 1	330V	A	130
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series	.0.07		050
	≤24V	Α	250
	48V	Α	250
		Λ.	
	75V 110V	A A	250 250



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	220V	Α	275
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series			
	≤24V	Α	250
	48V	Α	250
	75V	Α	160
	110V	Α	80
	220V	Α	_
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series			
	≤24V	Α	250
	48V	Α	250
	75V	Α	160
	110V	Α	120
	220V	Α	90
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series			
	≤24V	Α	250
	48V	Α	250
	75V	Α	160
	110V	Α	140
	220V	Α	120
	330V	Α	90
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series			
	≤24V	Α	250
	48V	Α	250
	75V	A	160
	110V	Α	140
	220V	A	140
	330V	Α	140
	460V	A	90
Short-time allowable current for 10s (IEC/EN60947-1)	+00 V	A	1280
Protection fuse			.200
1 Totalion Tube	gG (IEC)	Α	315
	aM (IEC)	_	200
Making capacity (RMS value)	aivi (ILC)	A 	1360
Breaking capacity (Kind Value)			1300
breaking capacity at voltage	440\/	٨	1260
	440V	A	1360
	500V	A	1326
Desigtance normale (everges value)	690V	A	1139
Resistance per pole (average value)		mΩ	0.18
Power dissipation per pole (average value)	1.1		
	Ith	W	11
	AC3	W	4.5
Tightening torque for terminals			
	min	Nm	18
	max	Nm	18
	min	lbin	159
	max	Ibin	159
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

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		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	250
		max	V	500
Rated AC voltage at 50	0/60Hz		V	24
AC operating voltage				
·	of 50/60Hz coil powered at 50Hz			
	pick-up			
		min	%Us	80 Us min
		max	%Us	110 Us max
	drop-out			
	·	min	%Us	20
		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			
		min	%Us	20
		max	%Us	≤70 Us min
AC average coil consu	mption at 20°C			
	of 50/60Hz coil powered at 50Hz			
		in-rush	VA	160230
		holding	VA	1.53.0
	of 50/60Hz coil powered at 60Hz			
		in-rush	VA	160230
		holding	VA	1.53.0
	of 60Hz coil powered at 60Hz			
		in-rush	VA	160230
		holding	VA	1.53.0
Dissipation at holding:	≤20°C 50Hz		W	1.53.0
DC coil operating				
DC rated control voltage	ge			
		min	V	250
		max	V	500
DC operating voltage				
	pick-up			
		min	%Us	85 Us min
		max	%Us	110 Us max
	drop-out			
		max	%Us	≤70 Us min
Average coil consump	tion ≤20°C			
·		in-rush	W	160230

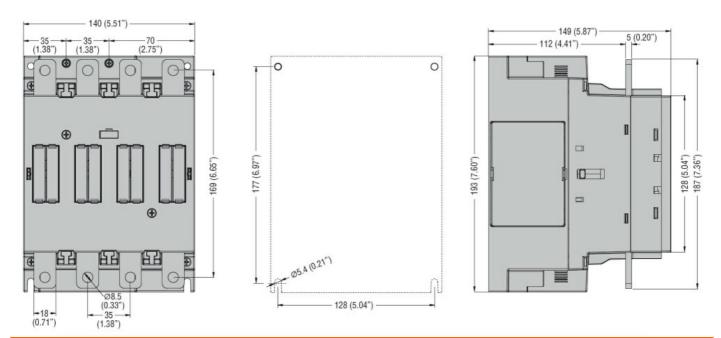


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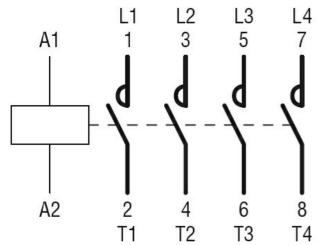
	holding	W	1.53.0
Max cycles frequency			
Mechanical operation		cycles/h	1000
Operating times			
Average time for Us control			
in AC			
Closing			
	min	ms	50
On anim	max	ms	100
Openin	_	 0	25
	min max	ms ms	35 75
UL technical data	Illax	1115	75
Yielded mechanical performance			
for three-phase AC motor			
tor tiree pridee /to motor	200/208V	HP	50
	220/230V	HP	60
	460/480V	HP	125
	575/600V	HP	150
General USE			
Contactor			
	AC current	Α	250
Short-circuit protection fuse, 600V			
High fault			
	Short circuit current	kA	100
	Fuse rating	Α	400
-	Fuse class		J
Standard fault			
	Short circuit current	kA	10
	Fuse rating Fuse class	Α	400
Ambient conditions	Fuse class		RK5
Temperature			
Operating temperature			
Operating temperature	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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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