BF265T4E230

FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 450A, AC/DC COIL, 100...250VAC/DC



Product designation			Power contactor
Product type designation			BF265
Contact characteristics			
Number of poles		Nr.	4
Rated insulation voltage Ui IEC/EN		V	1000
Rated impulse withstand voltage Uimp		kV	8
Operational frequency			
	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current Ith ≤ 40°C		A	450
Operational current Ie			
	AC-1 (≤40°C)	A	450
	AC-1 (≤55°C)	A	375
	AC-1 (≤70°C)	A	325
	AC-3 (≤440V ≤55°C)	A	265
	AC-4 (400V)	A	125
Rated operational power AC-3 (T≤55°C)			
	230V	kW	75
	400V	kW	132
	415V	kW	132
	440V	kW	160
	500V	kW	160
	690V	kW	200
	1000V	kW	160
Rated operational current AC-3 (T≤55°C)			
	230V	A	265
	400V	A	265
	415V	A	265
	440V	A	265
	500V	A	250
	690V	A	250
	1000V	A	115
Rated operational power AC-1 (T≤40°C)			
	230V	kW	170
	400V	kW	296
	500V	kW	326
	690V	kW	511
IEC max current Ie in DC1 with L/R ≤ 1ms with 1 poles in series			
	75V	A	350
	110V	A	160
IEC max current Ie in DC1 with L/R ≤ 1ms with 2 poles in series			
	75V	A	350
	110V	A	300
	220V	A	250
IEC max current Ie in DC1 with L/R ≤ 1ms with 3 poles in series			

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	75V	A	350
	110V	A	300
	220V	A	300
	330V	A	250
IEC max current Ie in DC1 with L/R ≤ 1ms with 4 poles in series			
	75V	A	350
	110V	A	300
	220V	A	300
IEC max current Ie in DC3-DC5 with L/R ≤ 15ms with 1 poles in series			
	75V	A	280
	110V	A	150
IEC max current Ie in DC3-DC5 with L/R ≤ 15ms with 2 poles in series			
	75V	A	280
	110V	A	250
	220V	A	200
IEC max current Ie in DC3-DC5 with L/R ≤ 15ms with 3 poles in series			
	75V	A	280
	110V	A	280
	220V	A	250
	330V	A	200
IEC max current Ie in DC3-DC5 with L/R ≤ 15ms with 4 poles in series			
	75V	A	280
	110V	A	280
	220V	A	280
	330V	A	280
	460V	A	200
Short-time allowable current for 10s (IEC/EN60947-1)		A	2120
Protection fuse			
	gG (IEC)	A	630
	aM (IEC)	A	400
Making capacity (RMS value)		A	2650
Breaking capacity at voltage			
	440V	A	2120
	500V	A	1792
	690V	A	1624
Resistance per pole (average value)		mΩ	0.12
Power dissipation per pole (average value)			
	Ith	W	24.3
	AC-3	W	8.4
Tightening torque for terminals			
	min	Nm	35
	max	Nm	35
	min	lbin	310
	max	lbin	310
Tightening torque for coil terminal			
	min	Nm	0.8
	max	Nm	1
Power terminal protection according to IEC/EN 60529			IP00
Cable stripping lenght			
	main circuit	mm	10
	command circuit	mm	8

Mechanical features

Operating position

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	normal allowable		Vertical plan ±30°
Fixing			Screw
Operations			
Mechanical life		cycles	5000000
Electrical life		cycles	900000 (Ie AC-3 400V)
Safety related data			
Performance level B10d according to EN/ISO 13489-1			
	rated load	cycles	900000
	mechanical load	cycles	5000000
EMC compatibility			yes
AC coil operating			
Rated AC voltage at 50/60Hz, 60Hz			
	min	V	100
	max	V	250
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	≤75 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	≤75 Us min
AC average coil consumption at 20°C			
of 50/60Hz coil powered at 50Hz			
	in-rush	VA	300
	holding	VA	6.4
of 50/60Hz coil powered at 60Hz			
	in-rush	VA	300
	holding	VA	6.4
of 60Hz coil powered at 60Hz			
	in-rush	VA	300
	holding	VA	6.4
Dissipation at holding ≤20°C 50Hz		W	3.5…8.0
DC coil operating			
DC rated control voltage			
	min	V	100
	max	V	250
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	220
	holding	W	2.7
Max cycles frequency			

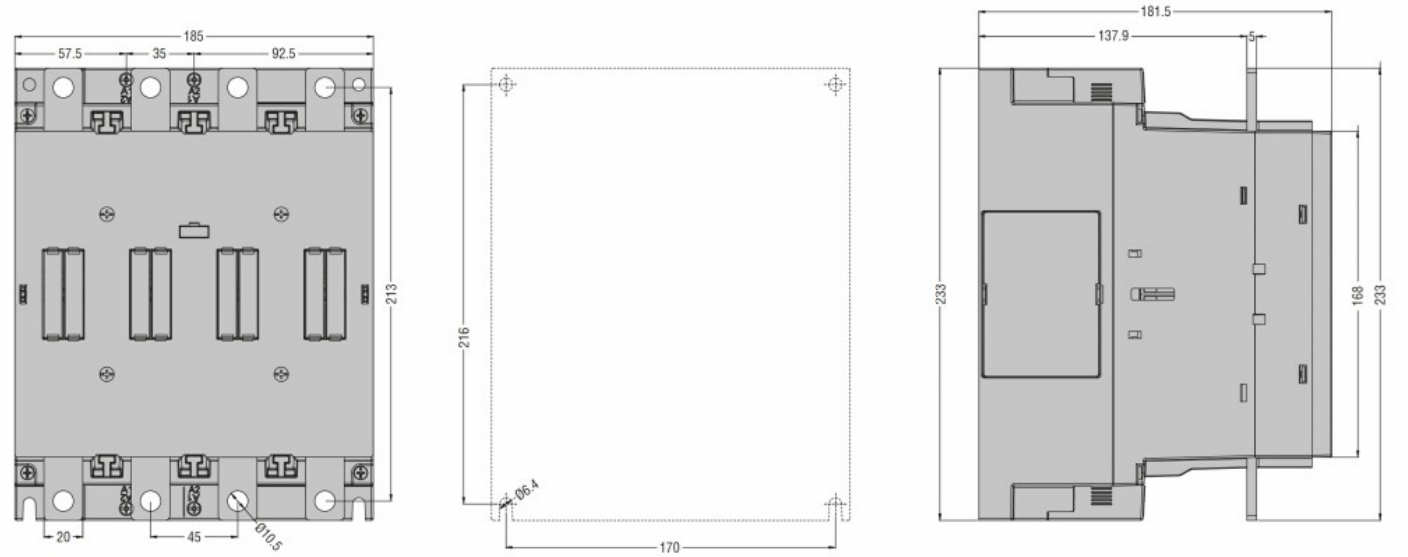
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Mechanical operation				cycles/h	1000
Operating times					
Average time for Us control					
	in AC				
		Closing NO			
			min	ms	80
			max	ms	120
		Opening NO			
			min	ms	30
			max	ms	75
UL technical data					
Rated operational voltage AC (UL)				V	600
Yielded mechanical performance					
	for three-phase AC motor				
			200/208V	HP	75
			220/240V	HP	100
			460/480V	HP	200
			575/600V	HP	250
General USE					
	Contactor				
			AC current	A	450
Short-circuit protection fuse, 600V					
	High fault				
			Short circuit current	kA	100
			Fuse rating	A	600
			Fuse class		J
	Standard fault				
			Short circuit current	kA	18
			Fuse rating	A	600
			Fuse class		RK5
Ambient conditions					
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					

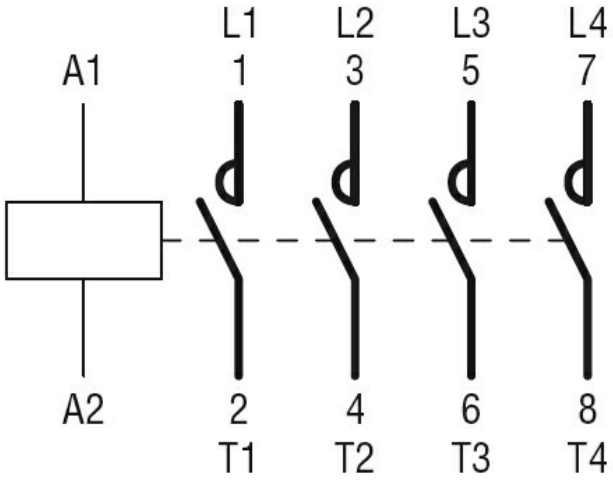
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Wiring diagrams



Certifications and compliance

Compliance

CSA C22.2 n° 60947-1
CSA C22.2 n° 60947-4-1
IEC/EN 60335-2-89
IEC/EN/BS 60947-1
IEC/EN/BS 60947-4-1
UL 60947-1
UL 60947-4-1

Certificates

CSA C22.2 n. 60335-2-40:22 LZGH A2L
CSA C22.2 No. 60335-2-89:21 LZGH A2L
cULus
UL 60335-2-40 LZGH A2L
UL 60335-2-89 LZGH A2L

ETIM classification

ETIM 8.0	EC000066 - Power contactor, AC switching

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