BF265T4E110

FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 450A, AC/DC COIL, 60… 130VAC/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		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			

	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
Mechanical features			
Operating position			
	normal		Vertical plan
	allowable		±30°
Fixing			Screw

Operations				
Mechanical life			cycles	5000000
Electrical life			cycles	900000
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	60
		max	V	130
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	160…320
		holding	VA	3.5…8.0
	of 50/60Hz coil powered at 60Hz			
		in-rush	VA	160…320
		holding	VA	3.5…8.0
	of 60Hz coil powered at 60Hz			
		in-rush	VA	160…320
		holding	VA	3.5…8.0
Dissipation at holding ≤20°C 50Hz			W	3.5…8.0
DC coil operating				
DC rated control voltage				
		min	V	60
		max	V	130
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	160…230
		holding	W	3.5…8.0
Max cycles frequency				
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

Yielded mechanical performance				
	for three-phase AC motor			
		200/208V	HP	75
		220/230V	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

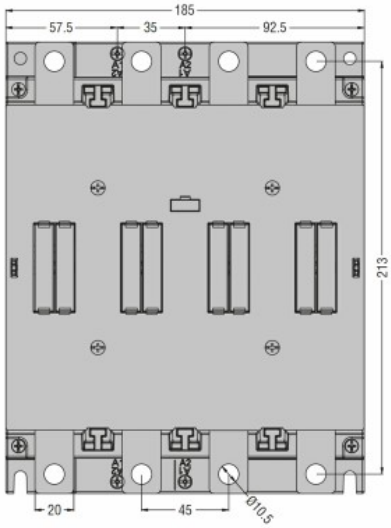
Ambient conditions

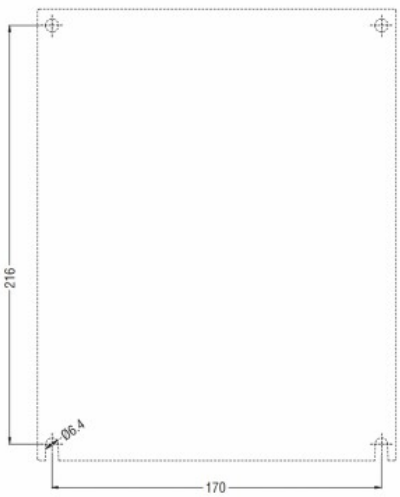
Temperature				
	Operating temperature			
		min	°C	-40
		max	°C	70
	Storage temperature			
		min	°C	-50
		max	°C	80
Max altitude			m	3000

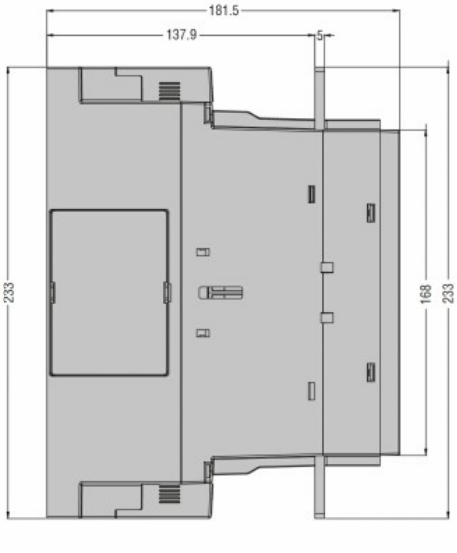
Resistance & Protection

Pollution degree	3

Dimensions



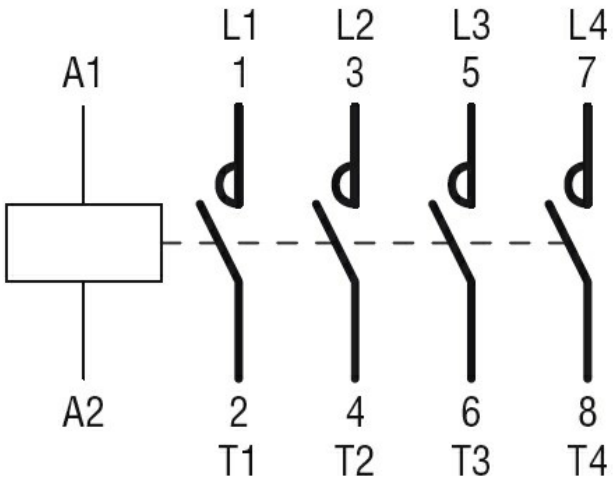




BF265T4E110

FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 450A, AC/DC COIL, 60… 130VAC/DC

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