



Product designation

Power contactor

Product type designation

BF265

**Contact characteristics**

Number of poles	Nr.	3
Rated insulation voltage $U_i$ IEC/EN	V	1000
Rated impulse withstand voltage $U_{imp}$	kV	8
Operational frequency	min	Hz 25
	max	Hz 400
IEC Conventional free air thermal current $I_{th} \leq 40^\circ C$	A	450
Operational current $I_e$	AC-1 ( $\leq 40^\circ C$ )	A 450
	AC-1 ( $\leq 55^\circ C$ )	A 375
	AC-1 ( $\leq 70^\circ C$ )	A 325
	AC-3 ( $\leq 440V \leq 55^\circ C$ )	A 265
	AC-4 (400V)	A 125
Rated operational power AC-3 ( $T \leq 55^\circ C$ )	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 ( $T \leq 55^\circ C$ )	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 ( $T \leq 40^\circ C$ )	230V	kW 170
	400V	kW 296
	500V	kW 326
	690V	kW 511
IEC max current $I_e$ in DC1 with $L/R \leq 1ms$ with 1 poles in series	75V	A 350
	110V	A 160
IEC max current $I_e$ in DC1 with $L/R \leq 1ms$ with 2 poles in series	75V	A 350
	110V	A 300
	220V	A 250
IEC max current $I_e$ in DC1 with $L/R \leq 1ms$ 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	Ibin	310
	max	Ibin	310
Tightening torque for coil terminal			
	min	Nm	0.8
	max	Nm	1
Conductor section			
Flexible with insulated spade lug conductor section			
	max	mm <sup>2</sup>	16
Power terminal protection according to IEC/EN 60529			IP00

### Mechanical features

Operating position

	normal allowable		Vertical plan ±30°
Fixing			Screw
<b>Operations</b>			
Mechanical life		cycles	5000000
Electrical life		cycles	900000
<b>Safety related data</b>			
Performance level B10d according to EN/ISO 13489-1			
	rated load	cycles	900000
	mechanical load	cycles	5000000
EMC compatibility			yes
<b>AC coil operating</b>			
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
<b>DC coil operating</b>			
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
<b>Max cycles frequency</b>			

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

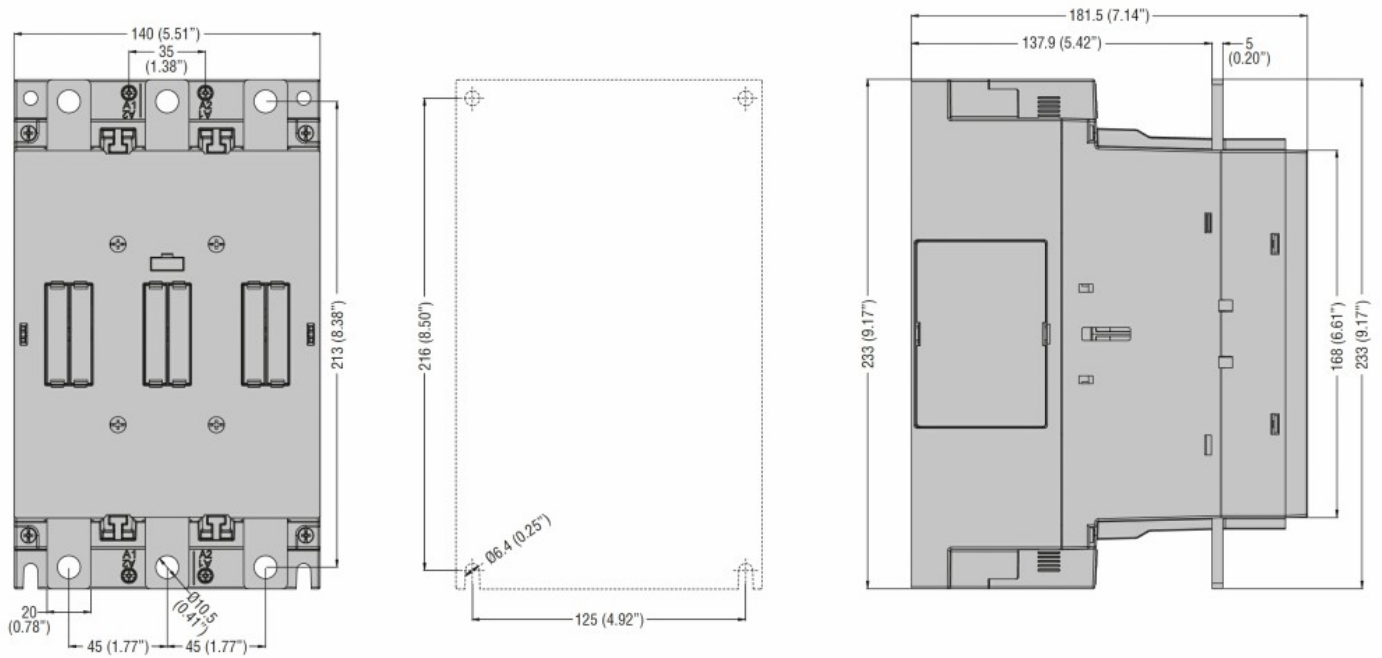
Storage temperature min °C -50  
max °C 80

Max altitude m 3000

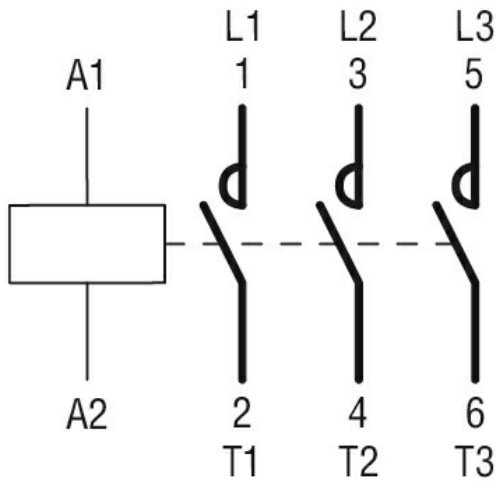
**Resistance & Protection**

Pollution degree 3

**Dimensions**



### 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