



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}		A	450
Operational current I_e			
	AC-1 ($\leq 40^\circ\text{C}$)	A	450
	AC-1 ($\leq 55^\circ\text{C}$)	A	375
	AC-1 ($\leq 70^\circ\text{C}$)	A	325
	AC-3 ($\leq 440\text{V} \leq 55^\circ\text{C}$)	A	265
	AC-4 (400V)	A	125
Rated operational power AC-3 ($T \leq 55^\circ\text{C}$)	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 ($T \leq 55^\circ\text{C}$)	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 ($T \leq 40^\circ\text{C}$)	230V	kW	170
	400V	kW	296
	500V	kW	326
	690V	kW	511
IEC max current I_e in DC1 with $L/R \leq 1\text{ms}$ with 1 poles in series	75V	A	350
	110V	A	160
IEC max current I_e in DC1 with $L/R \leq 1\text{ms}$ with 2 poles in series	75V	A	350
	110V	A	300
	220V	A	250
IEC max current I_e in DC1 with $L/R \leq 1\text{ms}$ with 3 poles in series			

	75V	A	350
	110V	A	300
	220V	A	300
	330V	A	250
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series			
	75V	A	350
	110V	A	300
	220V	A	300
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series			
	75V	A	280
	110V	A	150
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series			
	75V	A	280
	110V	A	250
	220V	A	200
IEC max current le 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 le 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)			
Protection fuse		A	2120
	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)			
	I _{th}	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
Power terminal protection according to IEC/EN 60529			IP00
Mechanical features			
Operating position		normal allowable	Vertical plan ±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	900000
mechanical load cycles	5000000

EMC compatibility yes

AC coil operating

Rated AC voltage at 50/60Hz, 60Hz

min V	24
max V	60

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
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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
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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	20
max V	60

DC operating voltage

pick-up	min %Us	85 Us min
	max %Us	110 Us max

drop-out	max %Us	≤70 Us min
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Average coil consumption ≤20°C

in-rush W	160...230
holding W	3.5...8.0

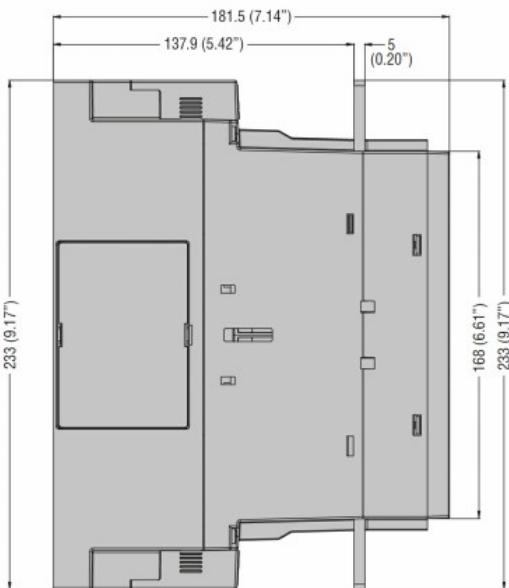
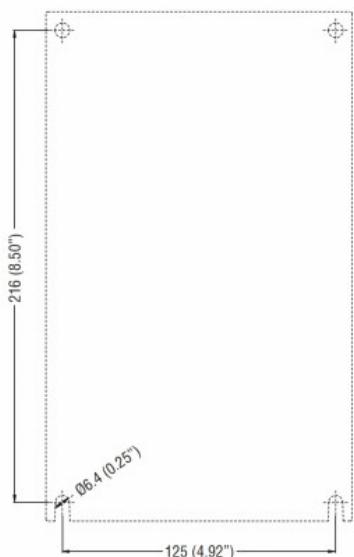
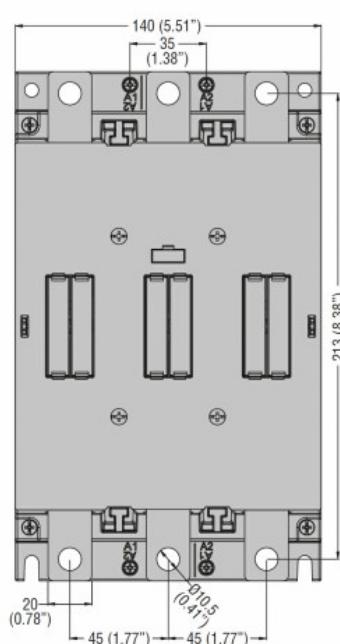
Max cycles frequency

Mechanical operation cycles/h 1000

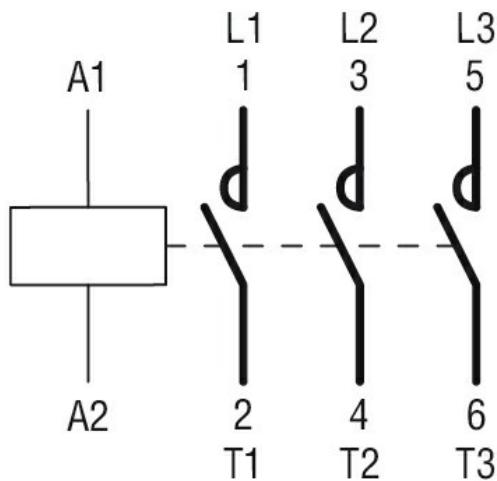
Operating times

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			
Rated operational voltage AC (UL)		V	600
Yielded mechanical performance for three-phase AC motor			
200/208V	HP	75	
	HP	100	
	HP	200	
	HP	250	
General USE			
Contactor	AC current	A	450
Short-circuit protection fuse, 600V High fault	Short circuit current Fuse rating Fuse class	kA A J	100 600
Standard fault	Short circuit current Fuse rating Fuse class	kA A RK5	18 600
Ambient conditions			
Temperature Operating temperature	min max	°C	-40 70
Storage temperature	min max	°C	-50 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