



Power contactor  
BF230

Product designation

Product type designation

**Contact characteristics**

Number of poles	Nr.	3
Rated insulation voltage U <sub>i</sub> IEC/EN	V	1000
Rated impulse withstand voltage U <sub>imp</sub>	kV	8
Operational frequency	min	Hz 25
	max	Hz 400
IEC Conventional free air thermal current I <sub>th</sub>	A	350
Operational current I <sub>e</sub>	AC-1 (≤40°C)	A 350
	AC-1 (≤55°C)	A 290
	AC-1 (≤70°C)	A 250
	AC-3 (≤440V ≤55°C)	A 230
	AC-4 (400V)	A 110
Rated operational power AC-3 (T≤55°C)	230V	kW 55
	400V	kW 110
	415V	kW 110
	440V	kW 132
	500V	kW 132
	690V	kW 160
	1000V	kW 110
Rated operational power AC-1 (T≤40°C)	230V	kW 132
	400V	kW 230
	500V	kW 253
	690V	kW 397
IEC max current I <sub>e</sub> in DC1 with L/R ≤ 1ms with 1 poles in series	≤24V	A 350
	48V	A 350
	75V	A 350
	110V	A 145
	220V	A –
IEC max current I <sub>e</sub> in DC1 with L/R ≤ 1ms with 2 poles in series	≤24V	A 350
	48V	A 350
	75V	A 350
	110V	A 270
	220V	A 225
IEC max current I <sub>e</sub> in DC1 with L/R ≤ 1ms with 3 poles in series	≤24V	A 350
	48V	A 350
	75V	A 350

	110V	A	270
	220V	A	270
	330V	A	225
<hr/>			
IEC max current I <sub>e</sub> in DC1 with L/R ≤ 1ms with 4 poles in series			
	≤24V	A	350
	48V	A	350
	75V	A	350
	110V	A	350
	220V	A	350
<hr/>			
IEC max current I <sub>e</sub> in DC3-DC5 with L/R ≤ 15ms with 1 poles in series			
	≤24V	A	350
	48V	A	350
	75V	A	250
	110V	A	135
	220V	A	–
<hr/>			
IEC max current I <sub>e</sub> in DC3-DC5 with L/R ≤ 15ms with 2 poles in series			
	≤24V	A	350
	48V	A	350
	75V	A	250
	110V	A	225
	220V	A	180
<hr/>			
IEC max current I <sub>e</sub> in DC3-DC5 with L/R ≤ 15ms with 3 poles in series			
	≤24V	A	350
	48V	A	350
	75V	A	250
	110V	A	250
	220V	A	225
	330V	A	180
<hr/>			
IEC max current I <sub>e</sub> in DC3-DC5 with L/R ≤ 15ms with 4 poles in series			
	≤24V	A	350
	48V	A	350
	75V	A	250
	110V	A	250
	220V	A	225
	330V	A	210
	460V	A	180
<hr/>			
Short-time allowable current for 10s (IEC/EN60947-1)		A	1840
<hr/>			
Protection fuse			
	gG (IEC)	A	400
	aM (IEC)	A	250
<hr/>			
Making capacity (RMS value)		A	2300
<hr/>			
Breaking capacity at voltage			
	440V	A	1840
	500V	A	1472
	690V	A	1296
<hr/>			
Resistance per pole (average value)		mΩ	0.18
<hr/>			
Power dissipation per pole (average value)			
	I <sub>th</sub>	W	21
	AC3	W	9.3
<hr/>			
Tightening torque for terminals			
	min	Nm	18
	max	Nm	18
	min	I <sub>bin</sub>	159
	max	I <sub>bin</sub>	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
allowable	±30°

Fixing

Screw

Weight

g 3000

**Operations**

Mechanical life

cycles 10000000

Electrical life

cycles 1000000

**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	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

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...230
holding	VA	1.5...3.0

of 50/60Hz coil powered at 60Hz

in-rush	VA	160...230
holding	VA	1.5...3.0

of 60Hz coil powered at 60Hz

in-rush	VA	160...230
holding	VA	1.5...3.0

Dissipation at holding ≤20°C 50Hz

W 1.5...3.0

**DC coil operating**

DC rated control voltage

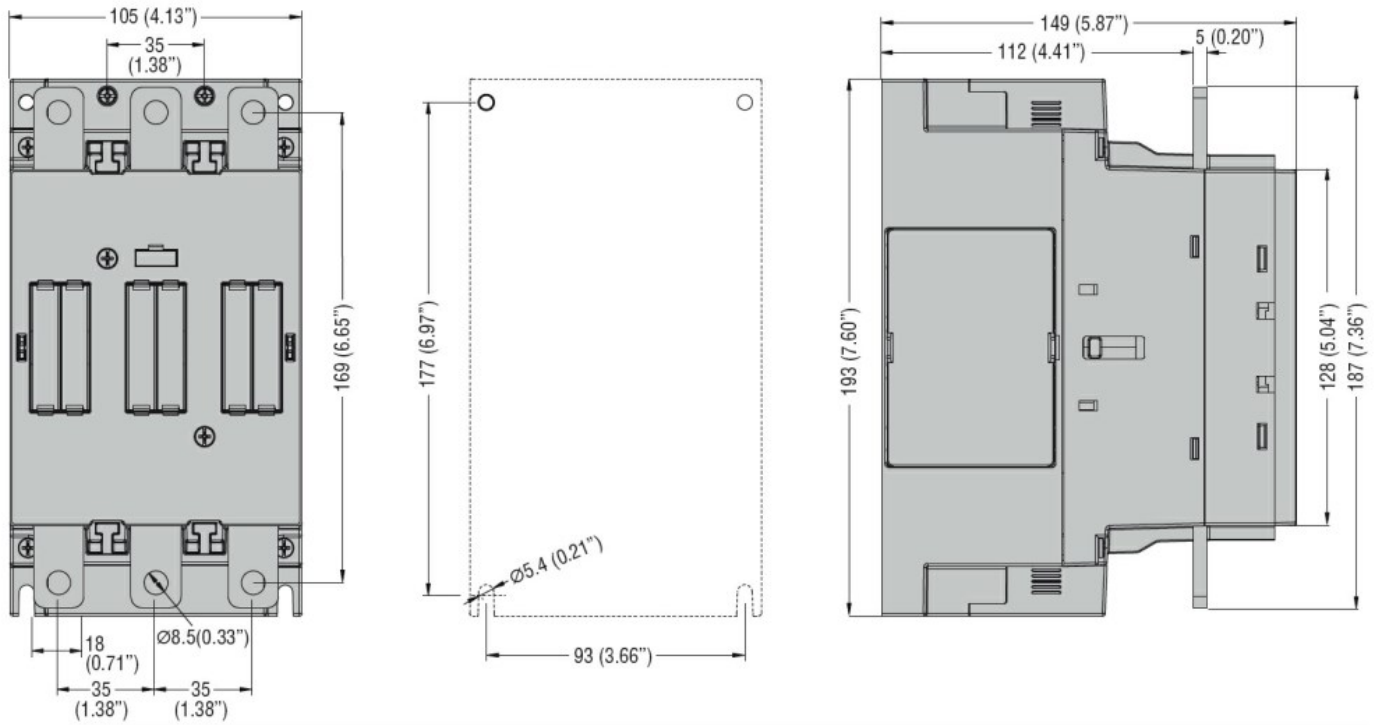
min	V	20
max	V	60

DC operating voltage

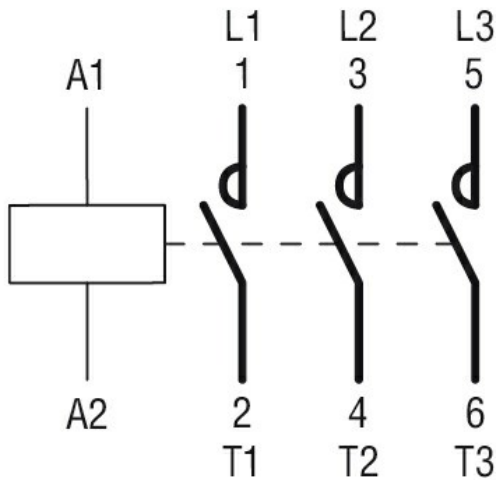
pick-up

min	%Us	85 Us min
max	%Us	110 Us max

drop-out			
		max	%Us ≤70 Us min
Average coil consumption ≤20°C			
	in-rush	W	160...230
	holding	W	1.5...3.0
<b>Max cycles frequency</b>			
Mechanical operation		cycles/h	1000
<b>Operating times</b>			
Average time for Us control			
in AC			
Closing NO			
		min	ms 50
		max	ms 100
Opening NO			
		min	ms 30
		max	ms 75
<b>UL technical data</b>			
Yielded mechanical performance			
for three-phase AC motor			
	200/208V	HP	75
	220/230V	HP	75
	460/480V	HP	150
	575/600V	HP	200
General USE			
Contactor			
	AC current	A	350
Short-circuit protection fuse, 600V			
High fault			
	Short circuit current	kA	100
	Fuse rating	A	400
	Fuse class		J
Standard fault			
	Short circuit current	kA	10
	Fuse rating	A	400
	Fuse class		RK5
<b>Ambient conditions</b>			
Temperature			
Operating temperature			
	min	°C	-40
	max	°C	70
Storage temperature			
	min	°C	-50
	max	°C	80
Max altitude			
		m	3000
<b>Resistance &amp; Protection</b>			
Pollution degree			
			3
<b>Dimensions [mm (in)]</b>			



### 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



Power contactor  
BF230

Product designation

Product type designation

**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	350
Operational current $I_e$	AC-1 ( $\leq 40^\circ\text{C}$ )	A 350
	AC-1 ( $\leq 55^\circ\text{C}$ )	A 290
	AC-1 ( $\leq 70^\circ\text{C}$ )	A 250
	AC-3 ( $\leq 440\text{V} \leq 55^\circ\text{C}$ )	A 230
	AC-4 (400V)	A 110
Rated operational power AC-3 ( $T \leq 55^\circ\text{C}$ )	230V	kW 55
	400V	kW 110
	415V	kW 110
	440V	kW 132
	500V	kW 132
	690V	kW 160
	1000V	kW 110
Rated operational power AC-1 ( $T \leq 40^\circ\text{C}$ )	230V	kW 132
	400V	kW 230
	500V	kW 253
	690V	kW 397
IEC max current $I_e$ in DC1 with $L/R \leq 1\text{ms}$ with 1 poles in series	$\leq 24\text{V}$	A 350
	48V	A 350
	75V	A 350
	110V	A 145
	220V	A -
IEC max current $I_e$ in DC1 with $L/R \leq 1\text{ms}$ with 2 poles in series	$\leq 24\text{V}$	A 350
	48V	A 350
	75V	A 350
	110V	A 270
	220V	A 225
IEC max current $I_e$ in DC1 with $L/R \leq 1\text{ms}$ with 3 poles in series	$\leq 24\text{V}$	A 350
	48V	A 350
	75V	A 350

	110V	A	270
	220V	A	270
	330V	A	225
<hr/>			
IEC max current Ie in DC1 with L/R ≤ 1ms with 4 poles in series	≤24V	A	350
	48V	A	350
	75V	A	350
	110V	A	350
	220V	A	350
<hr/>			
IEC max current Ie in DC3-DC5 with L/R ≤ 15ms with 1 poles in series	≤24V	A	350
	48V	A	350
	75V	A	250
	110V	A	135
	220V	A	–
<hr/>			
IEC max current Ie in DC3-DC5 with L/R ≤ 15ms with 2 poles in series	≤24V	A	350
	48V	A	350
	75V	A	250
	110V	A	225
	220V	A	180
<hr/>			
IEC max current Ie in DC3-DC5 with L/R ≤ 15ms with 3 poles in series	≤24V	A	350
	48V	A	350
	75V	A	250
	110V	A	250
	220V	A	225
	330V	A	180
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IEC max current Ie in DC3-DC5 with L/R ≤ 15ms with 4 poles in series	≤24V	A	350
	48V	A	350
	75V	A	250
	110V	A	250
	220V	A	225
	330V	A	210
	460V	A	180
<hr/>			
Short-time allowable current for 10s (IEC/EN60947-1)		A	1840
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Protection fuse	gG (IEC)	A	400
	aM (IEC)	A	250
<hr/>			
Making capacity (RMS value)		A	2300
<hr/>			
Breaking capacity at voltage	440V	A	1840
	500V	A	1472
	690V	A	1296
<hr/>			
Resistance per pole (average value)		mΩ	0.18
<hr/>			
Power dissipation per pole (average value)	Ith	W	21
	AC3	W	9.3
<hr/>			
Tightening torque for terminals	min	Nm	18
	max	Nm	18
	min	Ibin	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
allowable	±30°

Fixing

Screw

Weight

g 3000

**Operations**

Mechanical life

cycles 10000000

Electrical life

cycles 1000000

**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...230
holding	VA	1.5...3.0

of 50/60Hz coil powered at 60Hz

in-rush	VA	160...230
holding	VA	1.5...3.0

of 60Hz coil powered at 60Hz

in-rush	VA	160...230
holding	VA	1.5...3.0

Dissipation at holding ≤20°C 50Hz

W 1.5...3.0

**DC coil operating**

DC rated control voltage

min	V	60
max	V	130

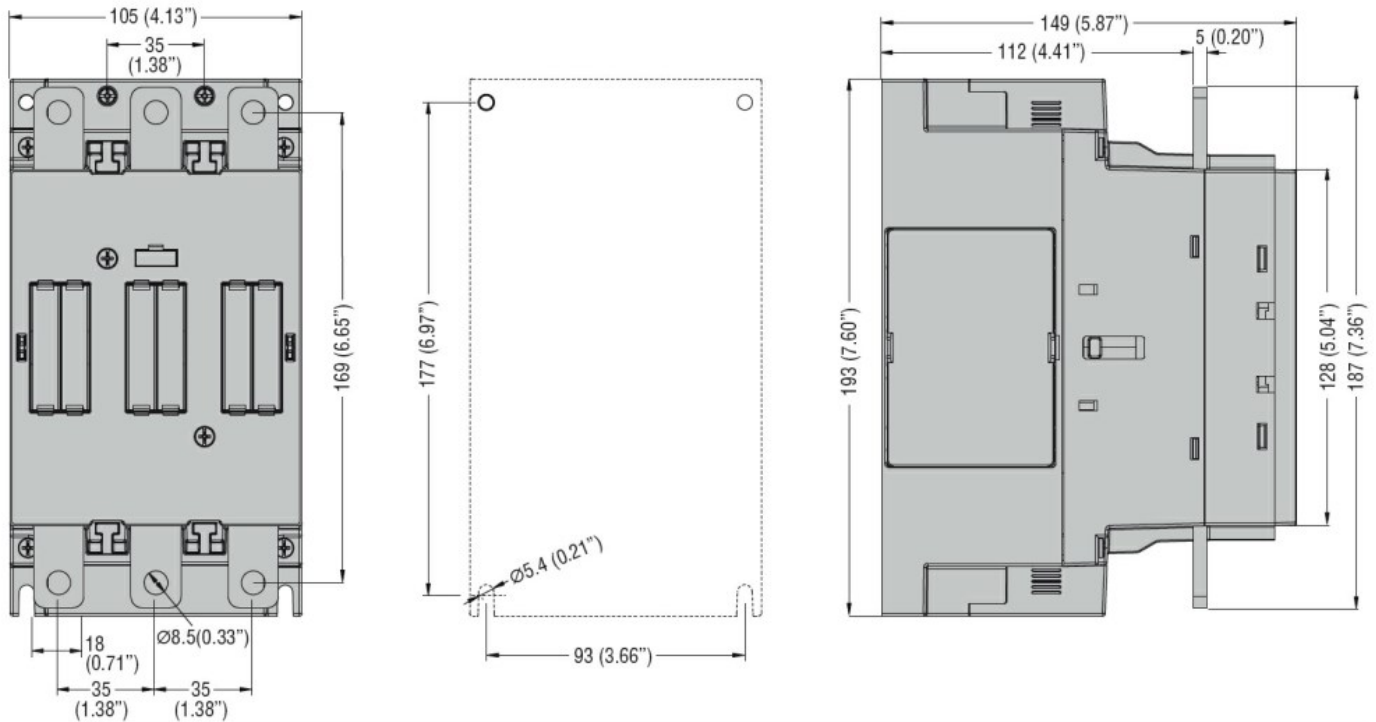
DC operating voltage

pick-up

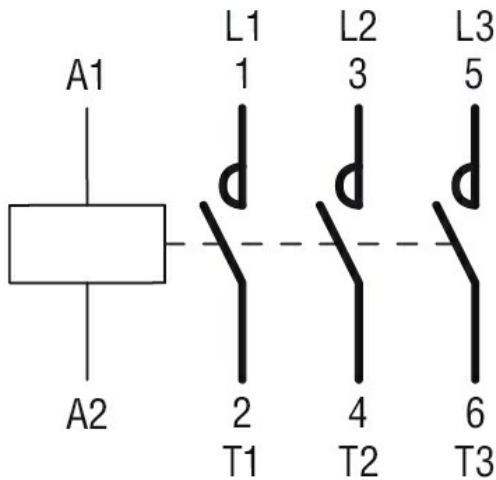
min	%Us	85 Us min
max	%Us	110 Us max



drop-out			
		max	%Us ≤70 Us min
Average coil consumption ≤20°C			
	in-rush	W	160...230
	holding	W	1.5...3.0
<b>Max cycles frequency</b>			
Mechanical operation			cycles/h 1000
<b>Operating times</b>			
Average time for Us control			
in AC			
Closing NO			
	min	ms	50
	max	ms	100
Opening NO			
	min	ms	30
	max	ms	75
<b>UL technical data</b>			
Yielded mechanical performance			
for three-phase AC motor			
	200/208V	HP	75
	220/230V	HP	75
	460/480V	HP	150
	575/600V	HP	200
General USE			
Contactor			
	AC current	A	350
Short-circuit protection fuse, 600V			
High fault			
	Short circuit current	kA	100
	Fuse rating	A	400
	Fuse class		J
Standard fault			
	Short circuit current	kA	10
	Fuse rating	A	400
	Fuse class		RK5
<b>Ambient conditions</b>			
Temperature			
Operating temperature			
	min	°C	-40
	max	°C	70
Storage temperature			
	min	°C	-50
	max	°C	80
Max altitude			
		m	3000
<b>Resistance &amp; Protection</b>			
Pollution degree			3
<b>Dimensions [mm (in)]</b>			



### 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



Power contactor  
BF230

Product designation

Product type designation

**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	350
Operational current $I_e$	AC-1 ( $\leq 40^\circ\text{C}$ )	A 350
	AC-1 ( $\leq 55^\circ\text{C}$ )	A 290
	AC-1 ( $\leq 70^\circ\text{C}$ )	A 250
	AC-3 ( $\leq 440\text{V} \leq 55^\circ\text{C}$ )	A 230
	AC-4 (400V)	A 110
Rated operational power AC-3 ( $T \leq 55^\circ\text{C}$ )	230V	kW 55
	400V	kW 110
	415V	kW 110
	440V	kW 132
	500V	kW 132
	690V	kW 160
	1000V	kW 110
Rated operational power AC-1 ( $T \leq 40^\circ\text{C}$ )	230V	kW 132
	400V	kW 230
	500V	kW 253
	690V	kW 397
IEC max current $I_e$ in DC1 with $L/R \leq 1\text{ms}$ with 1 poles in series	$\leq 24\text{V}$	A 350
	48V	A 350
	75V	A 350
	110V	A 145
	220V	A -
IEC max current $I_e$ in DC1 with $L/R \leq 1\text{ms}$ with 2 poles in series	$\leq 24\text{V}$	A 350
	48V	A 350
	75V	A 350
	110V	A 270
	220V	A 225
IEC max current $I_e$ in DC1 with $L/R \leq 1\text{ms}$ with 3 poles in series	$\leq 24\text{V}$	A 350
	48V	A 350
	75V	A 350

	110V	A	270
	220V	A	270
	330V	A	225
<hr/>			
IEC max current Ie in DC1 with L/R ≤ 1ms with 4 poles in series			
	≤24V	A	350
	48V	A	350
	75V	A	350
	110V	A	350
	220V	A	350
<hr/>			
IEC max current Ie in DC3-DC5 with L/R ≤ 15ms with 1 poles in series			
	≤24V	A	350
	48V	A	350
	75V	A	250
	110V	A	135
	220V	A	–
<hr/>			
IEC max current Ie in DC3-DC5 with L/R ≤ 15ms with 2 poles in series			
	≤24V	A	350
	48V	A	350
	75V	A	250
	110V	A	225
	220V	A	180
<hr/>			
IEC max current Ie in DC3-DC5 with L/R ≤ 15ms with 3 poles in series			
	≤24V	A	350
	48V	A	350
	75V	A	250
	110V	A	250
	220V	A	225
	330V	A	180
<hr/>			
IEC max current Ie in DC3-DC5 with L/R ≤ 15ms with 4 poles in series			
	≤24V	A	350
	48V	A	350
	75V	A	250
	110V	A	250
	220V	A	225
	330V	A	210
	460V	A	180
<hr/>			
Short-time allowable current for 10s (IEC/EN60947-1)		A	1840
<hr/>			
Protection fuse			
	gG (IEC)	A	400
	aM (IEC)	A	250
<hr/>			
Making capacity (RMS value)		A	2300
<hr/>			
Breaking capacity at voltage			
	440V	A	1840
	500V	A	1472
	690V	A	1296
<hr/>			
Resistance per pole (average value)		mΩ	0.18
<hr/>			
Power dissipation per pole (average value)			
	Ith	W	21
	AC3	W	9.3
<hr/>			
Tightening torque for terminals			
	min	Nm	18
	max	Nm	18
	min	Ibin	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 allowable	Vertical plan ±30°
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Fixing

Screw

Weight

g	3000
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**Operations**

Mechanical life

cycles	10000000
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Electrical life

cycles	1000000
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**Safety related data**

Performance level B10d according to EN/ISO 13489-1

rated load	cycles	1000000
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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	≤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...230
holding	VA	1.5...3.0

of 50/60Hz coil powered at 60Hz

in-rush	VA	160...230
holding	VA	1.5...3.0

of 60Hz coil powered at 60Hz

in-rush	VA	160...230
holding	VA	1.5...3.0

Dissipation at holding ≤20°C 50Hz

W	1.5...3.0
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**DC coil operating**

DC rated control voltage

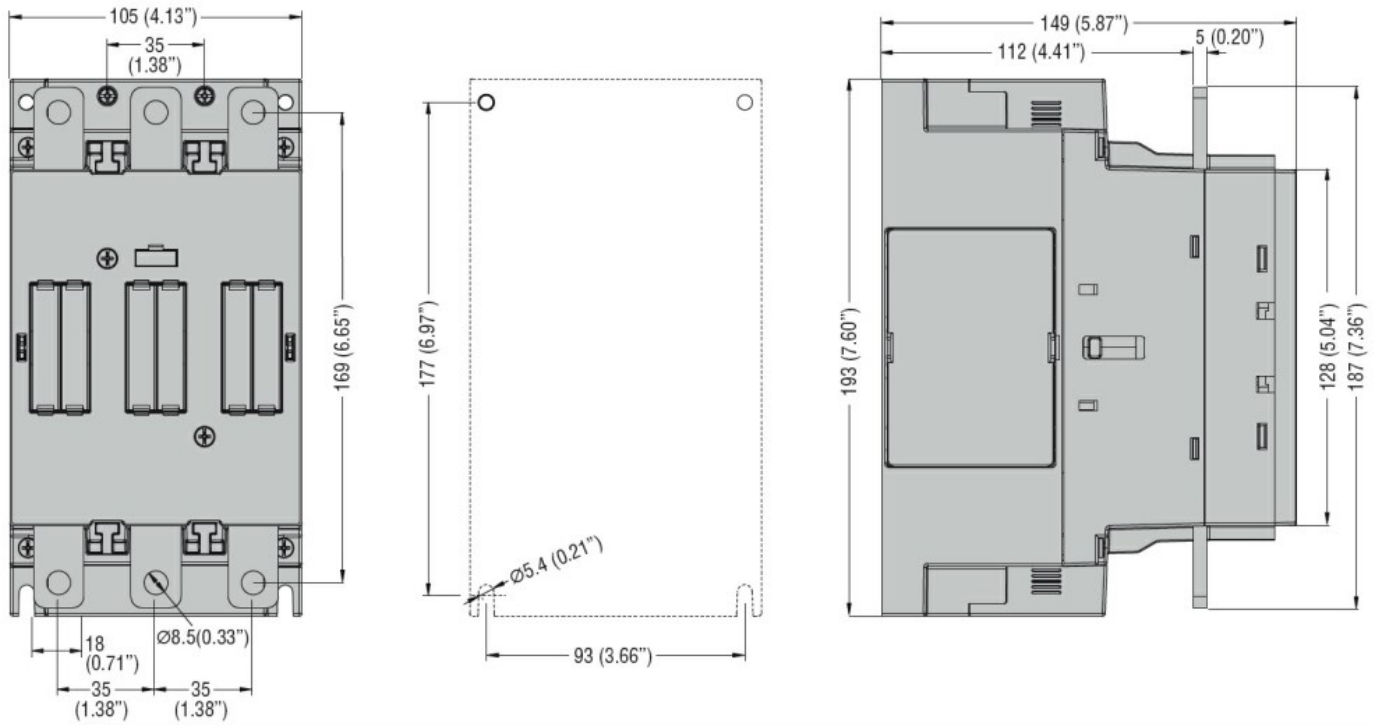
min	V	100
max	V	250

DC operating voltage

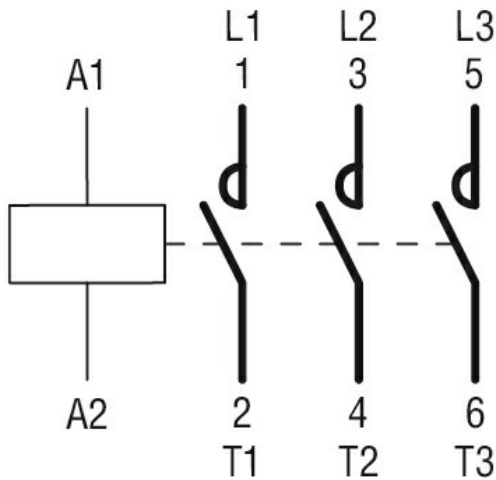
pick-up

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	160...230
	holding	W	1.5...3.0
<b>Max cycles frequency</b>			
Mechanical operation		cycles/h	1000
<b>Operating times</b>			
Average time for Us control			
in AC			
Closing NO			
		min	ms 50
		max	ms 100
Opening NO			
		min	ms 30
		max	ms 75
<b>UL technical data</b>			
Yielded mechanical performance			
for three-phase AC motor			
	200/208V	HP	75
	220/230V	HP	75
	460/480V	HP	150
	575/600V	HP	200
General USE			
Contactor			
	AC current	A	350
Short-circuit protection fuse, 600V			
High fault			
	Short circuit current	kA	100
	Fuse rating	A	400
	Fuse class		J
Standard fault			
	Short circuit current	kA	10
	Fuse rating	A	400
	Fuse class		RK5
<b>Ambient conditions</b>			
Temperature			
Operating temperature			
	min	°C	-40
	max	°C	70
Storage temperature			
	min	°C	-50
	max	°C	80
Max altitude			
		m	3000
<b>Resistance &amp; Protection</b>			
Pollution degree			
			3
<b>Dimensions [mm (in)]</b>			



### Wiring diagrams



### Certifications and compliance

#### Compliance

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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



Power contactor  
BF230

Product designation

Product type designation

**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	350
Operational current $I_e$	AC-1 ( $\leq 40^\circ\text{C}$ )	A 350
	AC-1 ( $\leq 55^\circ\text{C}$ )	A 290
	AC-1 ( $\leq 70^\circ\text{C}$ )	A 250
	AC-3 ( $\leq 440\text{V} \leq 55^\circ\text{C}$ )	A 230
	AC-4 (400V)	A 110
Rated operational power AC-3 ( $T \leq 55^\circ\text{C}$ )	230V	kW 55
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	415V	kW 110
	440V	kW 132
	500V	kW 132
	690V	kW 160
	1000V	kW 110
Rated operational power AC-1 ( $T \leq 40^\circ\text{C}$ )	230V	kW 132
	400V	kW 230
	500V	kW 253
	690V	kW 397
IEC max current $I_e$ in DC1 with $L/R \leq 1\text{ms}$ with 1 poles in series	$\leq 24\text{V}$	A 350
	48V	A 350
	75V	A 350
	110V	A 145
	220V	A -
IEC max current $I_e$ in DC1 with $L/R \leq 1\text{ms}$ with 2 poles in series	$\leq 24\text{V}$	A 350
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	75V	A 350
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	220V	A 225
IEC max current $I_e$ in DC1 with $L/R \leq 1\text{ms}$ with 3 poles in series	$\leq 24\text{V}$	A 350
	48V	A 350
	75V	A 350



	110V	A	270
	220V	A	270
	330V	A	225
<hr/>			
IEC max current I <sub>e</sub> in DC1 with L/R ≤ 1ms with 4 poles in series			
	≤24V	A	350
	48V	A	350
	75V	A	350
	110V	A	350
	220V	A	350
<hr/>			
IEC max current I <sub>e</sub> in DC3-DC5 with L/R ≤ 15ms with 1 poles in series			
	≤24V	A	350
	48V	A	350
	75V	A	250
	110V	A	135
	220V	A	–
<hr/>			
IEC max current I <sub>e</sub> in DC3-DC5 with L/R ≤ 15ms with 2 poles in series			
	≤24V	A	350
	48V	A	350
	75V	A	250
	110V	A	225
	220V	A	180
<hr/>			
IEC max current I <sub>e</sub> in DC3-DC5 with L/R ≤ 15ms with 3 poles in series			
	≤24V	A	350
	48V	A	350
	75V	A	250
	110V	A	250
	220V	A	225
	330V	A	180
<hr/>			
IEC max current I <sub>e</sub> in DC3-DC5 with L/R ≤ 15ms with 4 poles in series			
	≤24V	A	350
	48V	A	350
	75V	A	250
	110V	A	250
	220V	A	225
	330V	A	210
	460V	A	180
<hr/>			
Short-time allowable current for 10s (IEC/EN60947-1)		A	1840
<hr/>			
Protection fuse			
	gG (IEC)	A	400
	aM (IEC)	A	250
<hr/>			
Making capacity (RMS value)		A	2300
<hr/>			
Breaking capacity at voltage			
	440V	A	1840
	500V	A	1472
	690V	A	1296
<hr/>			
Resistance per pole (average value)		mΩ	0.18
<hr/>			
Power dissipation per pole (average value)			
	I <sub>th</sub>	W	21
	AC3	W	9.3
<hr/>			
Tightening torque for terminals			
	min	Nm	18
	max	Nm	18
	min	I <sub>bin</sub>	159
	max	I <sub>bin</sub>	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
allowable	±30°

Fixing

Screw

Weight

g 3000

**Operations**

Mechanical life

cycles 10000000

Electrical life

cycles 1000000

**Safety related data**

Performance level B10d according to EN/ISO 13489-1

rated load	cycles	1000000
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EMC compatibility

yes

**AC coil operating**

Rated AC voltage at 50/60Hz, 60Hz

min	V	250
max	V	500

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...230
holding	VA	1.5...3.0

of 50/60Hz coil powered at 60Hz

in-rush	VA	160...230
holding	VA	1.5...3.0

of 60Hz coil powered at 60Hz

in-rush	VA	160...230
holding	VA	1.5...3.0

Dissipation at holding ≤20°C 50Hz

W 1.5...3.0

**DC coil operating**

DC rated control voltage

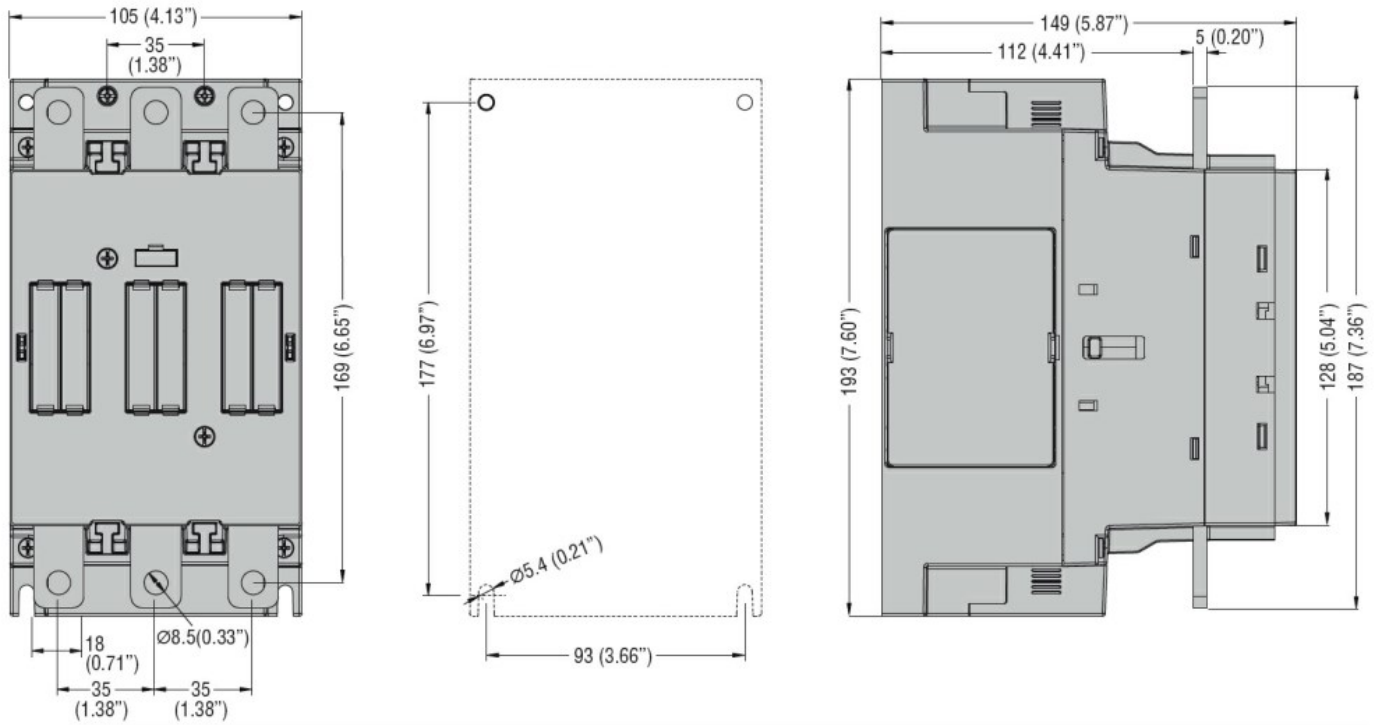
min	V	250
max	V	500

DC operating voltage

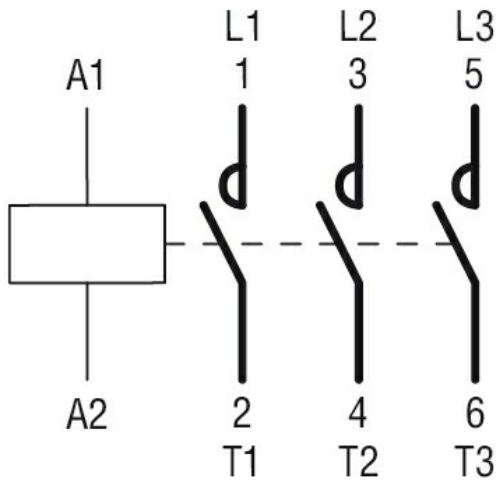
pick-up

min	%Us	85 Us min
max	%Us	110 Us max

drop-out		max	%Us	≤70 Us min
Average coil consumption ≤20°C		in-rush	W	160...230
		holding	W	1.5...3.0
<b>Max cycles frequency</b>				
Mechanical operation			cycles/h	1000
<b>Operating times</b>				
Average time for Us control				
in AC				
Closing NO		min	ms	50
		max	ms	100
Opening NO		min	ms	30
		max	ms	75
<b>UL technical data</b>				
Yielded mechanical performance				
for three-phase AC motor				
		200/208V	HP	75
		220/230V	HP	75
		460/480V	HP	150
		575/600V	HP	200
<b>General USE</b>				
Contactor		AC current	A	350
Short-circuit protection fuse, 600V				
High fault		Short circuit current	kA	100
		Fuse rating	A	400
		Fuse class		J
Standard fault		Short circuit current	kA	10
		Fuse rating	A	400
		Fuse class		RK5
<b>Ambient conditions</b>				
Temperature				
Operating temperature		min	°C	-40
		max	°C	70
Storage temperature		min	°C	-50
		max	°C	80
Max altitude			m	3000
<b>Resistance &amp; Protection</b>				
Pollution degree				3
<b>Dimensions [mm (in)]</b>				



### 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