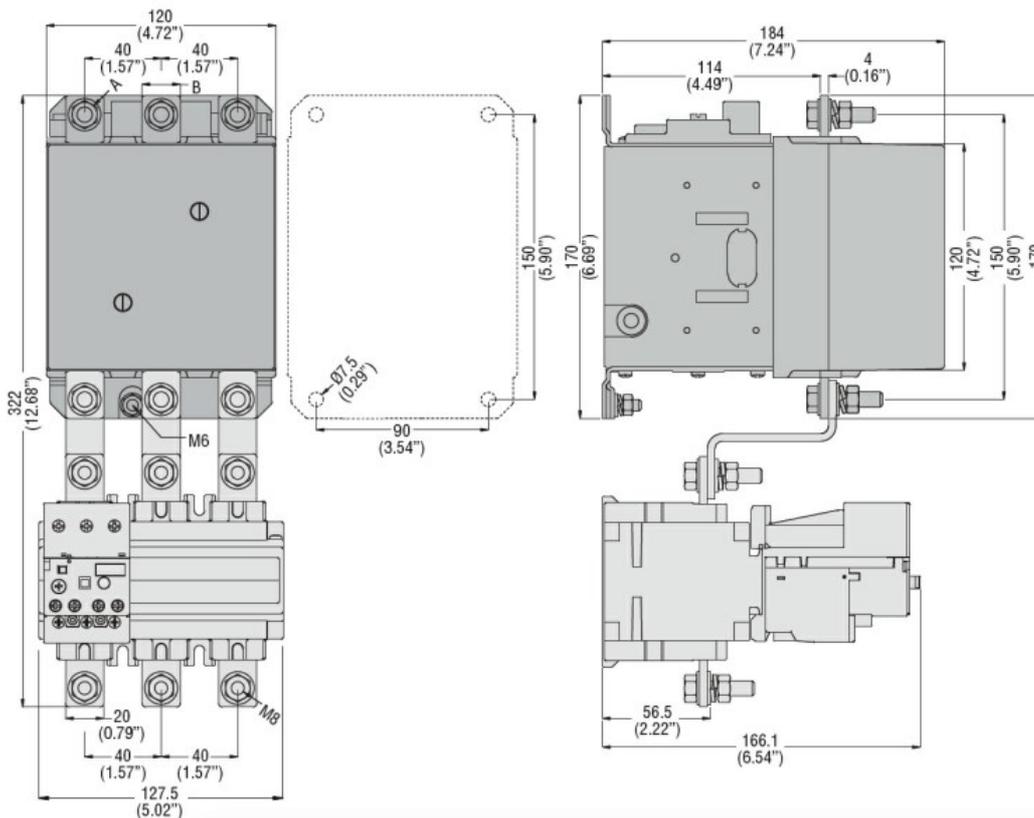




Product type designation	B180		
<b>Contact characteristics</b>			
Number of poles	nr.	3	
Rated insulation voltage $U_i$	V	1000	
Rated impulse withstand voltage $U_{imp}$	kV	8	
Operating frequency	Operational frequency min	Hz	25
	Operational frequency max	Hz	400
Conventional free air thermal current $I_{th}$	A	275	
Operating current	Operational current AC3 ( $\leq 440V \leq 55^\circ C$ )	A	185
	Operational current AC4 (400V)	A	65
Short-time allowable current for 10s (IEC/EN60947-1)	A	1500	
Protection fuse	gG (IEC)	A	315
	aM (IEC)	A	200
Making capacity (RMS value)	A	1850	
Breaking capacity at voltage	Breaking capacity 440V	A	1850
	Breaking capacity 500V	A	1600
	Breaking capacity 690V	A	1480
Resistance per pole (average value)	m $\Omega$	0.3	
Power dissipation per pole (average value)	Power dissipation pole (average value) $I_{th}$	W	20.3
	AC3	W	9.7
Tightening torque for terminals	min	Nm	18
	max	Nm	18
	min	lbft	13.3
	max	lbft	13.3
Tightening torque for coil terminal	min	Nm	1
	max	Nm	1
	min	lbft	0.74
	max	lbft	0.74
<b>Ambient conditions</b>			
Temperature	Operating temperature		
	min	$^\circ C$	-50
	max	$^\circ C$	70
	Storage temperature		
	min	$^\circ C$	-60
	max	$^\circ C$	80
Max altitude	m	3,000	
Operating position			

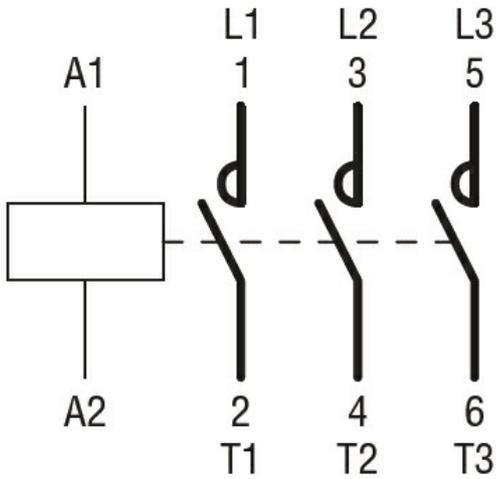
	normal allowable	Vertical plan ±30°
Mounting		Screw / DIN rail 35mm
Weight	g	5.4
<b>Operations</b>		
Mechanical life	Cycles	10,000,000
Electrical life	Cycles	1000000
<b>Safety related data</b>		
Mirror contacts according to IEC/EN 609474-4-1		Yes
EMC compatibility		Yes
<b>AC coil operating</b>		
Rated AC voltage at 50/60Hz, 60Hz	min V	24
	max V	480
AC operating voltage of 50/60Hz coil powered at 50Hz pick-up	min %Us	80
	max %Us	110
Dissipation at holding ≤20°C 50Hz	W	10
<b>DC coil operating</b>		
DC operating voltage		
Average coil consumption ≤20°C	in-rush W	300
	holding W	10
<b>Max cycles frequency</b>		
Mechanical operations	Cycles/h	3,600

**Dimensions**



CONTACTOR TYPE	A	B
B115	M6	15 (0.59")
B145	M8	20 (0.79")
B180	M8	20 (0.79")

**Wiring diagrams**



### Certifications and compliance

#### Certifications

CSA C22.2 n° 60947-1

CSA C22.2 n° 60947-4-1

IEC/EN 60947-1

IEC/EN 60947-4-1

UL 60947-1

UL 60947-4-1

#### Compliance

CCC

cULus

EAC

### ETIM 6 classification

EC000066 - Power contactor, AC switching