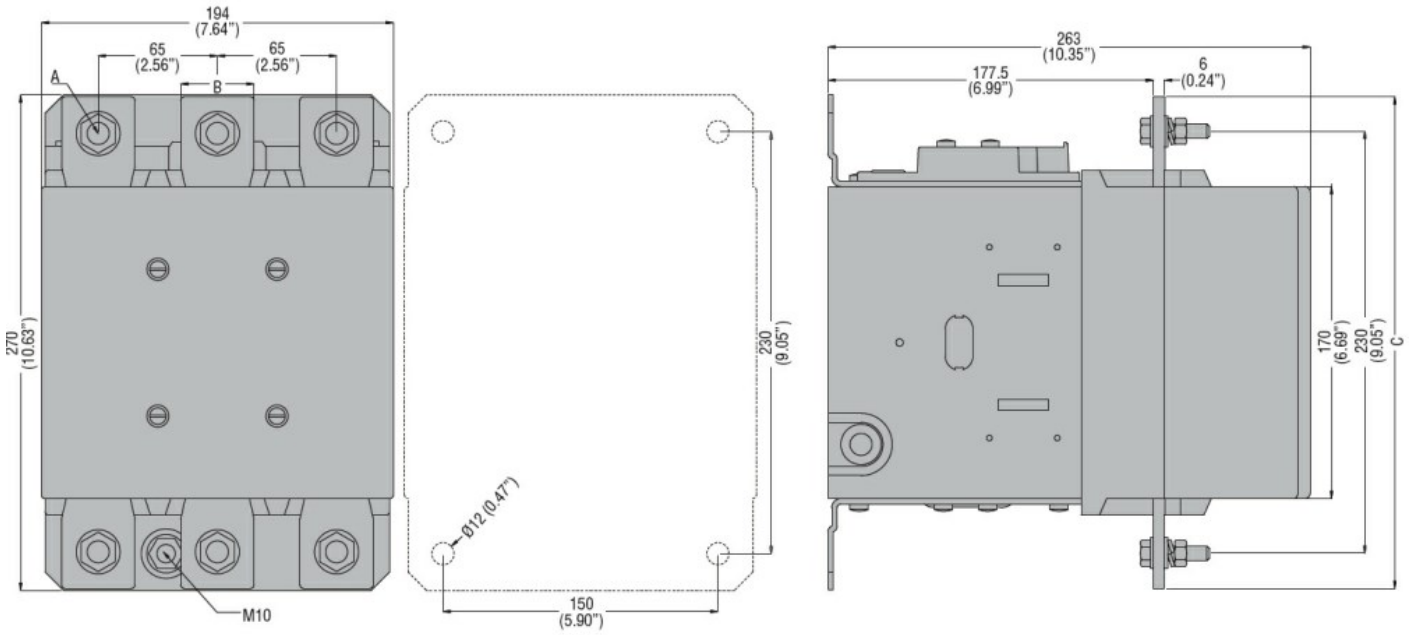




Product designation				Power contactor
Product type designation				B630
<b>Contact characteristics</b>				
Number of poles	nr.	3		
Rated insulation voltage $U_i$	V	1000		
Rated impulse withstand voltage $U_{imp}$	kV	8		
Operating frequency	Operational frequency min	Hz	25	
	Operational frequency max	Hz	400	
	Conventional free air thermal current $I_{th}$	A	800	
Operating current	Operational current AC1 ( $\leq 40^\circ\text{C}$ )	A	800	
	Operational current AC3 ( $\leq 440\text{V} \leq 55^\circ\text{C}$ )	A	630	
	Operational current AC4 (400V)	A	210	
Rated operational power AC1 ( $T \leq 40^\circ\text{C}$ )	230V	kW	288	
	400V	kW	500	
	500V	kW	655	
	690V	kW	860	
Rated operational power AC3 ( $T \leq 55^\circ\text{C}$ )	230V	kW	198	
	400V	kW	335	
	415V	kW	368	
	440V	kW	368	
	500V	kW	368	
	690V	kW	440	
	1000V	kW	360	
Short-time allowable current for 10s (IEC/EN60947-1)	A	5040		
Protection fuse	gG (IEC)	A	1000	
	aM (IEC)	A	630	
Making capacity (RMS value)	A	6300		
Breaking capacity at voltage	Breaking capacity 440V	A	6300	
	Breaking capacity 500V	A	5600	
	Breaking capacity 690V	A	5000	
Resistance per pole (average value)	m $\Omega$	0.14		
Power dissipation per pole (average value)	Power dissipation pole (average value) $I_{th}$	W	90	
	AC3	W	56	
Tightening torque for terminals	min	Nm	55	
	max	Nm	55	
	min	lbft	40.6	
	max	lbft	40.6	

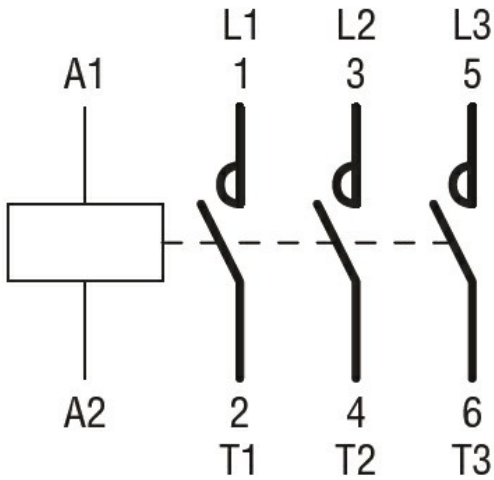
max number of wires simultaneously connectable		nr.	2
Conductor section	AWG		
		max	2x 600 kcmil
Power terminal protection according to IEC/EN 60529			IP00
<b>Auxiliary contact characteristics</b>			
Operational current AC1 ( $\leq 40^{\circ}\text{C}$ )		A	800
Operating current DC13		110V	A Screw
<b>Ambient conditions</b>			
Temperature	Operating temperature		
		min	$^{\circ}\text{C}$ -50
		max	$^{\circ}\text{C}$ 70
	Storage temperature		
		min	$^{\circ}\text{C}$ -60
		max	$^{\circ}\text{C}$ 80
Max altitude		m	3000
Operating position		normal allowable	Vertical plan $\pm 30^{\circ}$
Mounting			Screw
Weight		g	18.62
<b>Operations</b>			
Mechanical life		Cycles	5000000
Electrical life		Cycles	700000
<b>Safety related data</b>			
Performance level B10d according to EN/ISO 13489-1		rated load mechanical load	Cicli 700000 Cicli 5000000
Mirror contacts according to IEC/EN 60947-4-1			yes
EMC compatibility			yes
<b>AC coil operating</b>			
AC operating voltage	of 50/60Hz coil powered at 50Hz		
	pick-up	min	%Us 0.8
		max	%Us 1.1
	drop-out	min	%Us 0.2
		max	%Us 0.6
	of 50/60Hz coil powered at 60Hz		
	pick-up	min	%Us 0.8
		max	%Us 1.1
	drop-out	min	%Us 0.2
		max	%Us 0.6
AC operating voltage	of 50/60Hz coil powered at 50Hz		
		in-rush holding	VA 400 VA 18
	of 50/60Hz coil powered at 60Hz		

		in-rush	VA	400
		holding	VA	18
Dissipation at holding $\leq 20^{\circ}\text{C}$ 50Hz				W 18
<b>DC coil operating</b>				
DC rated control voltage				min V 24
<b>DC operating voltage</b>				
	pick-up			
		min	%Us	0.8
		max	%Us	1.10
	drop-out			
		min	%Us	0.2
		max	%Us	0.60
Average coil consumption $\leq 20^{\circ}\text{C}$				
		in-rush	W	400
		holding	W	18
<b>Max cycles frequency</b>				
Mechanical operations				Cycles/h 1200
<b>Operating times</b>				
Average time for Us control				
	in AC			
		Closing NO		
		min	ms	110
		max	ms	180
		Opening NO		
		min	ms	60
		max	ms	100
	in DC			
		Closing NO		
		min	ms	110
		max	ms	180
		Opening NO		
		min	ms	60
		max	ms	100
<b>UL technical data</b>				
General USE				
	Contactor			
		AC current	A	800
<b>Other features</b>				
Pollution degree				3
<b>Dimensions</b>				



CONTACTOR TYPE	A	B	C
B500	M10	35 (1.38")	265 (10.43")
B630	M12	40 (1.57")	270 (10.63")

### 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