



**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 $I_{th} \leq 40^\circ\text{C}$	A	800
Operational current $I_e$	AC-1 ( $\leq 40^\circ\text{C}$ )	A 800
	AC-1 ( $\leq 55^\circ\text{C}$ )	A 640
	AC-1 ( $\leq 70^\circ\text{C}$ )	A 540
	AC-3 ( $\leq 440\text{V} \leq 55^\circ\text{C}$ )	A 630
	AC-4 (400V)	A 260
Rated operational power AC-3 ( $T \leq 55^\circ\text{C}$ )	230V	kW 198
	400V	kW 355
	415V	kW 368
	440V	kW 368
	500V	kW 368
	690V	kW 440
	1000V	kW 368
Rated operational power AC-1 ( $T \leq 40^\circ\text{C}$ )	230V	kW 288
	400V	kW 500
	500V	kW 655
	690V	kW 860
IEC max current $I_e$ in DC1 with $L/R \leq 1\text{ms}$ with 1 poles in series	75V	A 800
	110V	A 460
	220V	A --
	330V	A --
	460V	A --
IEC max current $I_e$ in DC1 with $L/R \leq 1\text{ms}$ with 2 poles in series	75V	A 800
	110V	A 800
	220V	A 700
	330V	A --
	460V	A --
IEC max current $I_e$ in DC1 with $L/R \leq 1\text{ms}$ with 3 poles in series	75V	A 800
	110V	A 800
	220V	A 800
	330V	A 700
	460V	A --

IEC max current  $I_e$  in DC1 with  $L/R \leq 1\text{ms}$  with 4 poles in series

75V	A	800
110V	A	800
220V	A	800
330V	A	750
460V	A	700

IEC max current  $I_e$  in DC3-DC5 with  $L/R \leq 15\text{ms}$  with 1 poles in series

75V	A	800
110V	A	460
220V	A	--
330V	A	--
460V	A	--

IEC max current  $I_e$  in DC3-DC5 with  $L/R \leq 15\text{ms}$  with 2 poles in series

75V	A	800
110V	A	800
220V	A	700
330V	A	--
460V	A	--

IEC max current  $I_e$  in DC3-DC5 with  $L/R \leq 15\text{ms}$  with 3 poles in series

75V	A	800
110V	A	800
220V	A	800
330V	A	650
460V	A	--

IEC max current  $I_e$  in DC3-DC5 with  $L/R \leq 15\text{ms}$  with 4 poles in series

75V	A	800
110V	A	800
220V	A	800
330V	A	650
460V	A	700

Short-time allowable current for 10s (IEC/EN60947-1)

A	5040
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Protection fuse

gG (IEC)	A	1000
aM (IEC)	A	630

Making capacity (RMS value)

A	6300
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Breaking capacity at voltage

440V	A	6300
500V	A	5600
690V	A	5000

Resistance per pole (average value)

mΩ	0.14
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Power dissipation per pole (average value)

$I_{th}$	W	90
AC-3	W	56

Tightening torque for terminals

min	Nm	55
max	Nm	55
min	$I_{bin}$	40.6
max	$I_{bin}$	40.6

Tightening torque for coil terminal

min	Nm	1
max	Nm	1
min	$I_{bin}$	0.74
max	$I_{bin}$	0.74

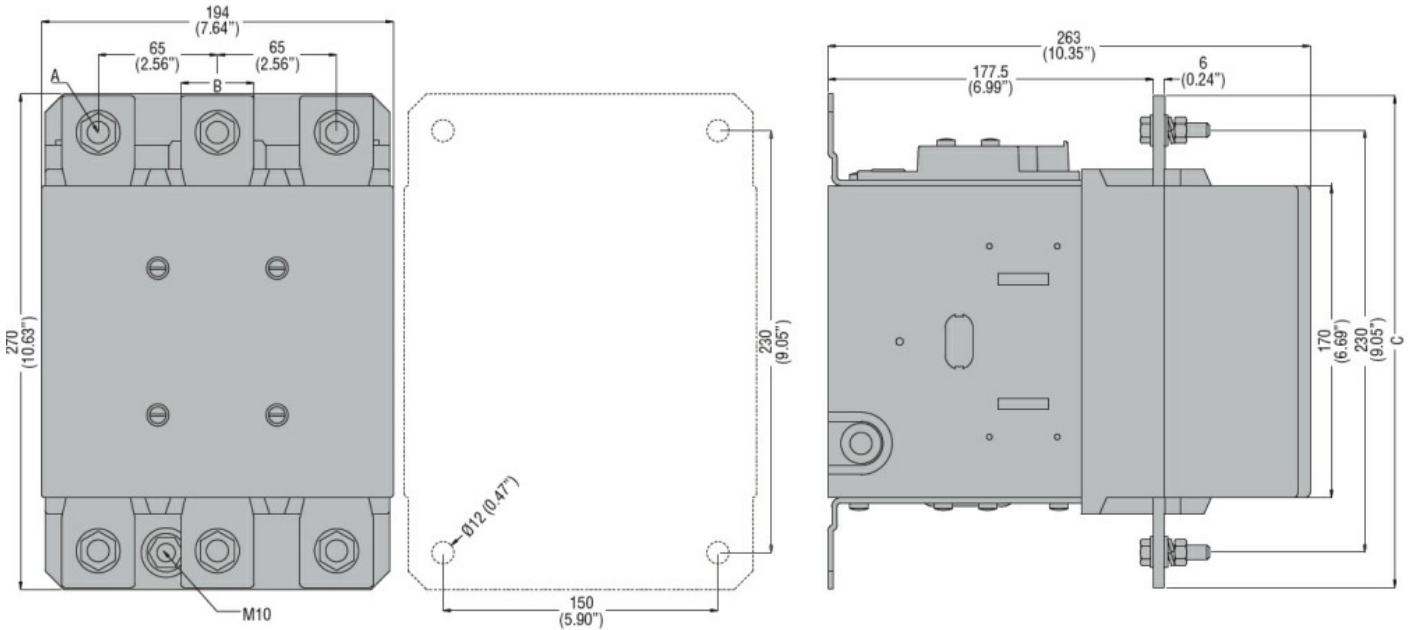
Max number of wires simultaneously connectable	Nr.	2	
Conductor section	AWG/Kcmil	max	2x 600 kcmil
Power terminal protection according to IEC/EN 60529			IP00
<b>Mechanical features</b>			
Operating position		normal allowable	Vertical plan ±30°
Fixing			Screw
Weight		g	1862
<b>Operations</b>			
Mechanical 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	cycles cycles 700000 5000000
Mirror contacts according to IEC/EN 60947-4-1 annex F			Yes
EMC compatibility			yes
<b>AC coil operating</b>			
Rated AC voltage at 50/60Hz, 60Hz		min max	V V 110 125
AC operating voltage	of 50/60Hz coil powered at 50Hz		
	pick-up	min max	%Us %Us 80 110
	drop-out	min max	%Us %Us 20 60
	of 50/60Hz coil powered at 60Hz		
	pick-up	min max	%Us %Us 80 110
	drop-out	min max	%Us %Us 20 60
	of 60Hz coil powered at 60Hz		
	pick-up	min max	%Us %Us 80 110
	drop-out	min max	%Us %Us 20 60
AC average coil consumption at 20°C	of 50/60Hz coil powered at 50Hz	in-rush holding	VA VA 400 18
	of 50/60Hz coil powered at 60Hz	in-rush holding	VA VA 400 18

Dissipation at holding $\leq 20^{\circ}\text{C}$ 50Hz		W	18
<b>DC coil operating</b>			
DC rated control voltage		min	V 110
		max	V 125
max			V 125
<b>DC operating voltage</b>			
pick-up		min	%Us 80
		max	%Us 110
drop-out		min	%Us 20
		max	%Us 60
<b>Average coil consumption <math>\leq 20^{\circ}\text{C}</math></b>			
		in-rush	W 400
		holding	W 18
<b>Max cycles frequency</b>			
Mechanical operation		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>			
Rated operational voltage AC (UL)		V	600
<b>General USE</b>			
Contactor		AC current	A 800
<b>Short-circuit protection fuse, 600V</b>			
Standard fault		Short circuit current	kA 18
		Fuse rating	A 1500
		Fuse class	L
<b>Ambient conditions</b>			
<b>Temperature</b>			
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
<b>Resistance &amp; Protection</b>			

Pollution degree

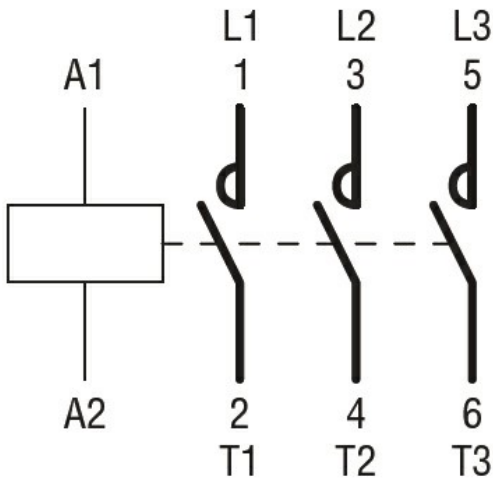
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**Dimensions**



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**

**Compliance**

- 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

**Certificates**

- CCC
- cULus
- EAC

**ETIM classification**

ETIM 8.0

EC000066 -  
Power contactor,  
AC switching