



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	lbin	40.6
max	lbin	40.6

Tightening torque for coil terminal

min	Nm	1
max	Nm	1
min	lbin	0.74
max	lbin	0.74

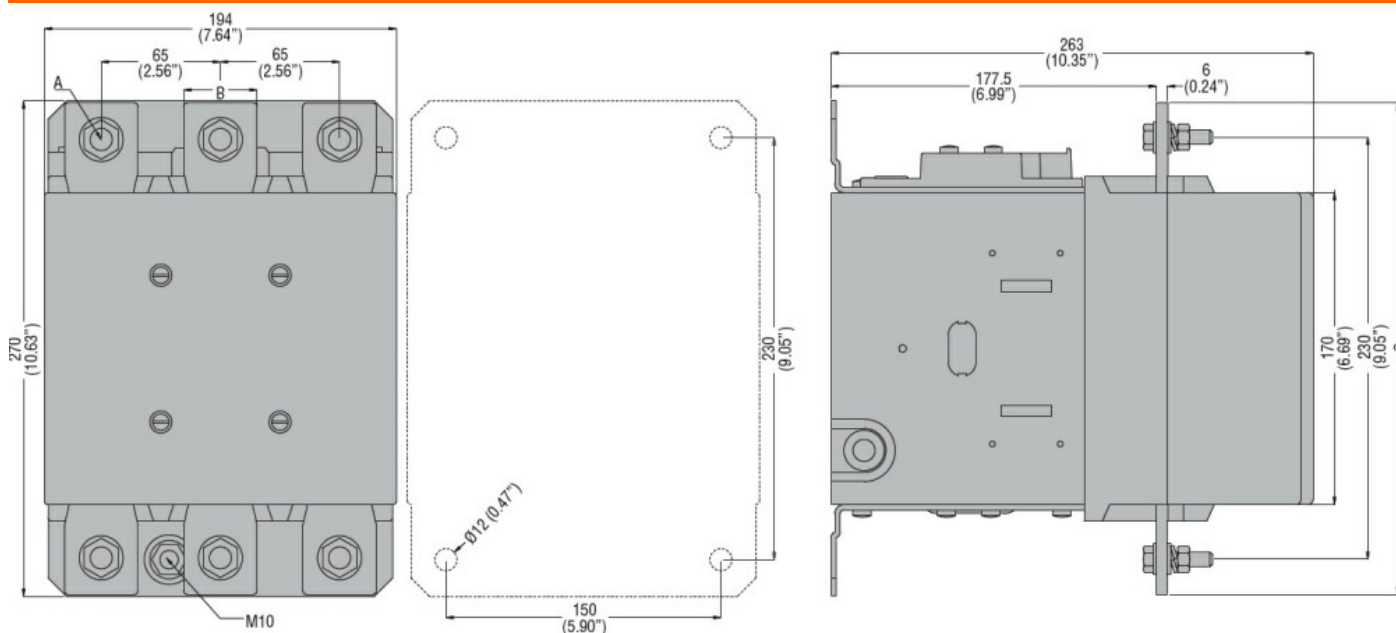
Max number of wires simultaneously connectable	Nr.	2
Conductor section	AWG/Kcmil	
	max	2x 600 kcmil
Power terminal protection according to IEC/EN 60529		IP00
Mechanical features		
Operating position	normal allowable	Vertical plan $\pm 30^\circ$
Fixing		Screw
Weight	g	1862
Operations		
Mechanical life	cycles	5000000
Electrical life	cycles	700000
Safety related data		
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
AC coil operating		
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 ≤20°C 50Hz			W	18
DC coil operating				
DC rated control voltage			min	V 110
			max	V 125
max			V	125
DC operating voltage				
pick-up			min	%Us 80
			max	%Us 110
drop-out			min	%Us 20
			max	%Us 60
Average coil consumption ≤20°C				
			in-rush	W 400
			holding	W 18
Max cycles frequency				
Mechanical operation			cycles/h	1200
Operating times				
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
UL technical data				
Rated operational voltage AC (UL)			V	600
General USE				
Contactor				
			AC current	A 800
Short-circuit protection fuse, 600V				
Standard fault				
			Short circuit current	kA 18
			Fuse rating	A 1500
			Fuse class	L
Ambient conditions				
Temperature				
Operating temperature			min	°C -50
			max	°C 70
Storage temperature			min	°C -60
			max	°C 80
Max altitude			m	3000
Resistance & Protection				

Pollution degree

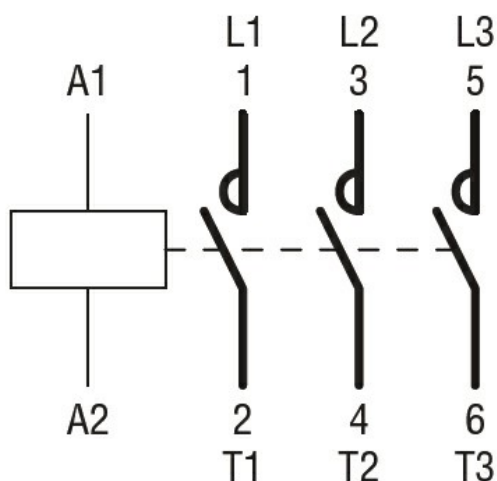
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Dimensions



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