

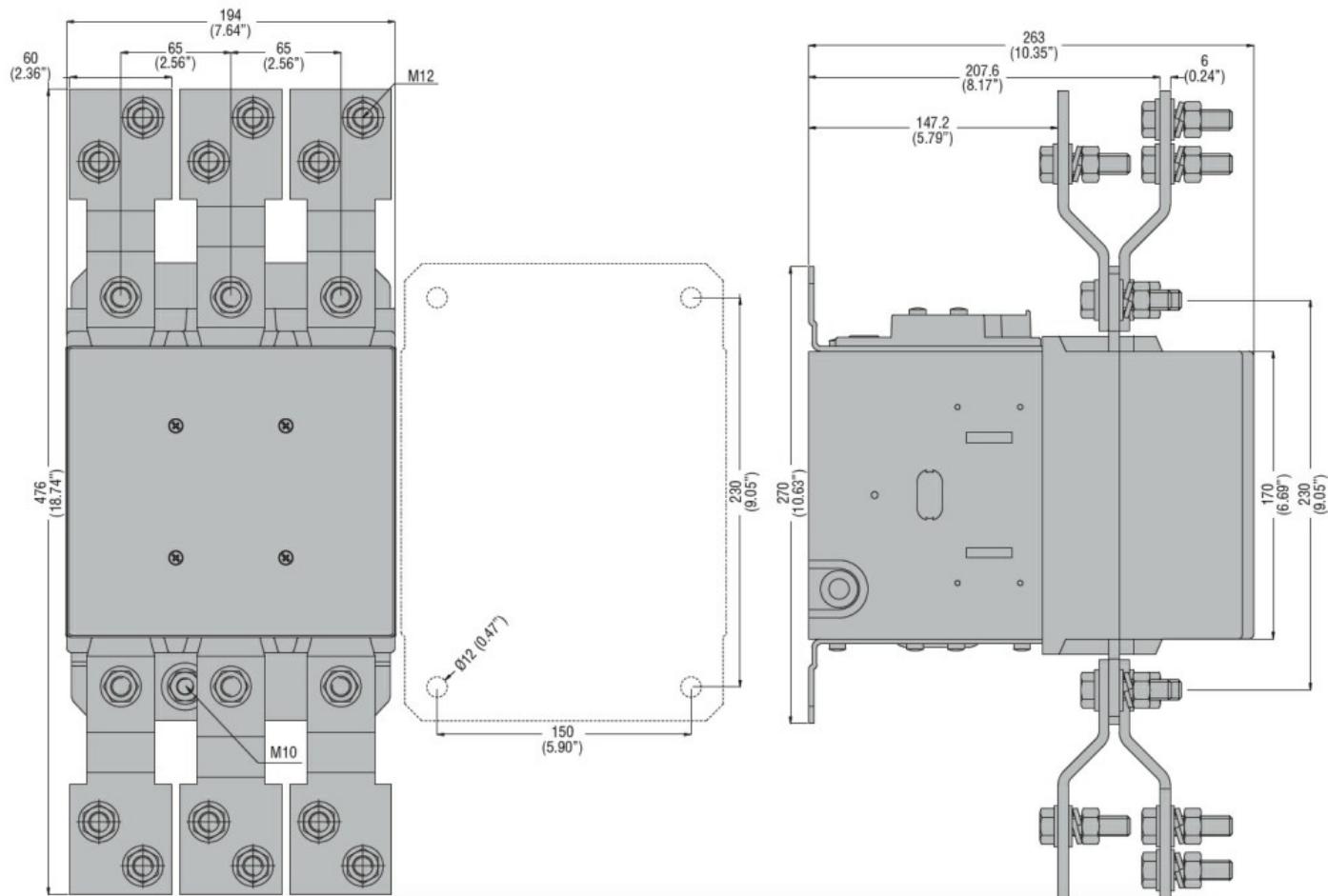


Product designation	Power contactor		
Product type designation	B6301000		
Contact characteristics			
Number of poles	Nr.	3	
Rated insulation voltage U_i IEC/EN	V	1000	
Rated impulse withstand voltage U_{imp}	kV	8	
Operational frequency	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current I_{th}		A	1000
Operational current I_e	AC-1 ($\leq 40^\circ C$) A 1000 AC-1 ($\leq 55^\circ C$) A 850 AC-1 ($\leq 70^\circ C$) A 700 AC-4 (400V) A 260		
Rated operational power AC-1 ($T \leq 40^\circ C$)	230V	kW	350
	400V	kW	600
	500V	kW	750
	690V	kW	1000
IEC max current I_e in DC1 with $L/R \leq 1ms$ 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 $L/R \leq 1ms$ 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 $L/R \leq 1ms$ 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 $L/R \leq 1ms$ 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 $L/R \leq 15ms$ with 1 poles in series			

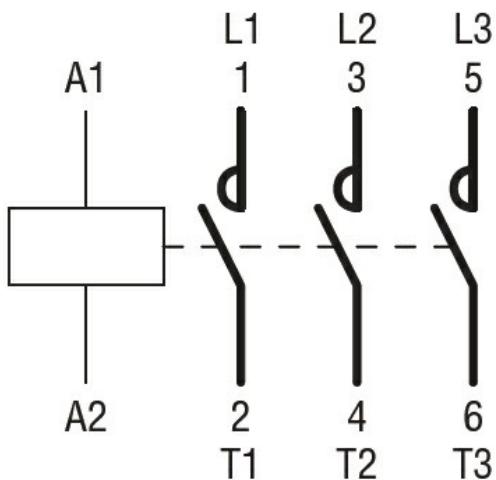
	75V	A	800
	110V	A	460
	220V	A	--
	330V	A	--
	460V	A	--
IEC max current I_e in DC3-DC5 with $L/R \leq 15\text{ms}$ with 2 poles in series	75V	A	800
	110V	A	800
	220V	A	700
	330V	A	--
	460V	A	--
IEC max current I_e in DC3-DC5 with $L/R \leq 15\text{ms}$ with 3 poles in series	75V	A	800
	110V	A	800
	220V	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	5600
Protection fuse	gG (IEC)	A	1000
Making capacity (RMS value)		A	6300
Breaking capacity at voltage			
	440V	A	6300
	500V	A	5600
	690V	A	5000
Resistance per pole (average value)		$\text{m}\Omega$	0.14
Power dissipation per pole (average value)	I_{th}	W	140
	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 900 kcmil
Power terminal protection according to IEC/EN 60529			IP00
Mechanical features			
Operating position	normal		Vertical plan

	allowable	$\pm 30^\circ$	
Fixing	Screw		
Weight	g	2140	
Operations			
Mechanical life	cycles	5000000	
Electrical life	cycles	700000	
Safety related data			
Performance level B10d according to EN/ISO 13489-1			
	rated load	cycles	700000
	mechanical load	cycles	5000000
Mirror contacts according to IEC/EN 609474-4-1	Yes		
EMC compatibility	yes		
AC coil operating			
Rated AC voltage at 50/60Hz, 60Hz	min	V	110
	max	V	125
AC operating voltage			
of 50/60Hz coil powered at 50Hz			
pick-up	min	%Us	80
	max	%Us	110
drop-out	min	%Us	20
	max	%Us	60
of 50/60Hz coil powered at 60Hz			
pick-up	min	%Us	80
	max	%Us	110
drop-out	min	%Us	20
	max	%Us	60
of 60Hz coil powered at 60Hz			
pick-up	min	%Us	80
	max	%Us	110
drop-out	min	%Us	20
	max	%Us	60
AC average coil consumption at 20°C			
of 50/60Hz coil powered at 50Hz	in-rush	VA	400
	holding	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	
DC coil operating			
DC rated control voltage	min	V	110
	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 $\leq 20^{\circ}\text{C}$				
	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	1000	
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			3	
Dimensions				



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