

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 ($\leq 40^\circ\text{C}$)	A	1000	
	AC-1 ($\leq 55^\circ\text{C}$)	A	850	
	AC-1 ($\leq 70^\circ\text{C}$)	A	700	
Rated operational power AC-1 ($T \leq 40^\circ\text{C}$)	230V	kW	350	
	400V	kW	600	
	500V	kW	750	
	690V	kW	1000	
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 ≤ 15ms 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 ≤ 15ms 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)		mΩ	0.14
Power dissipation per pole (average value)			
	I _{th}	W	140
	AC3	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
Max number of wires simultaneously connectable		Nr.	2
Power terminal protection according to IEC/EN 60529			IP00
Mechanical features			
Operating position		normal allowable	Vertical plan ±30°
Fixing			Screw
Weight		g	2142
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 60947-4-1			Yes
EMC compatibility			Yes
AC coil operating			
Rated AC voltage at 50/60Hz, 60Hz			

		min	V	440	
		max	V	415	
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	
			W	18	
Dissipation at holding ≤20°C 50Hz					
DC coil operating					
DC rated control voltage					
		min	V	440	
		max	V	415	
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

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