



Product designation				Power contactor
Product type designation				BG06
Contact characteristics				
Number of poles	nr.	3		
Rated insulation voltage U _i IEC/EN	V	690		
Rated impulse withstand voltage U _{imp}	kV	6		
Operational frequency	min	Hz	25	
	max	Hz	400	
IEC Conventional free air thermal current I _{th}	A	16		
Operational current I _e	AC-1 (≤40°C)	A	16	
	AC-3 (≤440V ≤55°C)	A	6	
	AC-4 (400V)	A	3.3	
Rated operational power AC-3 (T≤55°C)	230V	kW	1.5	
	400V	kW	2.2	
	415V	kW	2.4	
	440V	kW	2.5	
	500V	kW	3	
	690V	kW	3	
Rated operational power AC-1 (T≤40°C)	230V	kW	6	
	400V	kW	10	
	500V	kW	13	
	690V	kW	18	
IEC max current I _e in DC1 with L/R ≤ 1ms with 1 poles in series	≤24V	A	9	
	48V	A	8	
	75V	A	4	
	110V	A	3	
	220V	A	-	
	IEC max current I _e in DC1 with L/R ≤ 1ms with 2 poles in series	≤24V	A	12
48V		A	11	
75V		A	7	
110V		A	6	
220V		A	-	
IEC max current I _e in DC1 with L/R ≤ 1ms with 3 poles in series		≤24V	A	14
	48V	A	14	
	75V	A	8	
	110V	A	8	
	220V	A	1	
	IEC max current I _e in DC1 with L/R ≤ 1ms with 4 poles in series			

	≤24V	A	–
	48V	A	–
	75V	A	–
	110V	A	–
	220V	A	–
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IEC max current Ie in DC3-DC5 with L/R ≤ 15ms with 1 poles in series	≤24V	A	6
	48V	A	5
	75V	A	2
	110V	A	1
	220V	A	–
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IEC max current Ie in DC3-DC5 with L/R ≤ 15ms with 2 poles in series	≤24V	A	7
	48V	A	7
	75V	A	4
	110V	A	3
	220V	A	–
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IEC max current Ie in DC3-DC5 with L/R ≤ 15ms with 3 poles in series	≤24V	A	9
	48V	A	9
	75V	A	5
	110V	A	4
	220V	A	0,5
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IEC max current Ie in DC3-DC5 with L/R ≤ 15ms with 4 poles in series	≤24V	A	–
	48V	A	–
	75V	A	–
	110V	A	–
	220V	A	–
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Short-time allowable current for 10s (IEC/EN60947-1)		A	96
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Protection fuse	gG (IEC)	A	16
	aM (IEC)	A	6
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Making capacity (RMS value)		A	92
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Breaking capacity at voltage	440V	A	72
	500V	A	72
	690V	A	72
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Resistance per pole (average value)		mΩ	10
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Power dissipation per pole (average value)	Ith	W	2.6
	AC3	W	0.36
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Tightening torque for terminals	min	Nm	0.8
	max	Nm	1
	min	Ibin	0.59
	max	Ibin	0.74
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Tightening torque for coil terminal	min	Nm	0.8
	max	Nm	1
	min	Ibft	0.8
	max	Ibft	0.74
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Max number of wires simultaneously connectable		nr.	2

Conductor section			
Flexible w/o lug conductor section	min	mm ²	0.75
	max	mm ²	2.5
Flexible c/w lug conductor section			
	min	mm ²	1.5
	max	mm ²	2.5
Flexible with insulated spade lug conductor section			
	min	mm ²	1.5
	max	mm ²	2.5
Power terminal protection according to IEC/EN 60529			IP20 when wired
Mechanical features			
Operating position			
	normal allowable		Vertical plan ±30°
Fixing			Screw / DIN rail 35mm
Weight		g	185
Auxiliary contact characteristics			
Type of contact			1 NO
Thermal current I _{th}		A	10
IEC/EN 60947-5-1 designation			A600 - Q600
Operating current AC15			
	230V	A	3
	400V	A	1.9
	500V	A	1.4
Operating current DC12			
	110V	A	2.9
Operating current DC13			
	24V	A	2.9
	48V	A	1.4
	60V	A	1.2
	110V	A	0.6
	125V	A	0.55
	220V	A	0.3
	600V	A	0.1
Operations			
Mechanical life		cycles	20000000
Electrical life		cycles	500000
Safety related data			
Performance level B10d according to EN/ISO 13489-1			
	rated load mechanical load	cycles	500000
		cycles	20000000
Mirror contacts according to IEC/EN 60947-4-1			yes
EMC compatibility			Yes
Rated AC voltage at 60Hz		V	220
AC coil operating			
AC operating voltage			
of 60Hz coil powered at 60Hz			
pick-up			
	min	%Us	75
	max	%Us	115
drop-out			

	min	%Us	20
	max	%Us	55
AC average coil consumption at 20°C			
of 50/60Hz coil powered at 50Hz			
	in-rush	VA	30
	holding	VA	4
of 50/60Hz coil powered at 60Hz			
	in-rush	VA	25
	holding	VA	3
of 60Hz coil powered at 60Hz			
	in-rush	VA	30
	holding	VA	4
Dissipation at holding ≤20°C 50Hz		W	0.95
Max cycles frequency			
Mechanical operation		cycles/h	3600
Operating times			
Average time for Us control			
in AC			
Closing NO			
	min	ms	12
	max	ms	21
Opening NO			
	min	ms	9
	max	ms	18
Closing NC			
	min	ms	17
	max	ms	26
Opening NC			
	min	ms	7
	max	ms	17
in DC			
Closing NO			
	min	ms	18
	max	ms	25
Opening NO			
	min	ms	2
	max	ms	3
Closing NC			
	min	ms	3
	max	ms	5
Opening NC			
	min	ms	11
	max	ms	17
UL technical data			
Full-load current (FLA) for three-phase AC motor			
	at 480V	A	4.8
	at 600V	A	3.9
Yielded mechanical performance			
for single-phase AC motor			
	110/120V	HP	0.3
	230V	HP	1
for three-phase AC motor			
	200/208V	HP	1.5
	220/230V	HP	2

460/480V	HP	3
575/600V	HP	3

General USE

Contactor

AC current A 16

Short-circuit protection fuse, 600V
High fault

Short circuit current	kA	100
Fuse rating	A	30
Fuse class		J

Standard fault

Short circuit current	kA	5
Fuse rating	A	30

Contact rating of auxiliary contacts according to UL

A600 - Q600

Ambient conditions

Temperature

Operating temperature

min	°C	-40
max	°C	60

Storage temperature

min	°C	-55
max	°C	70

Max altitude

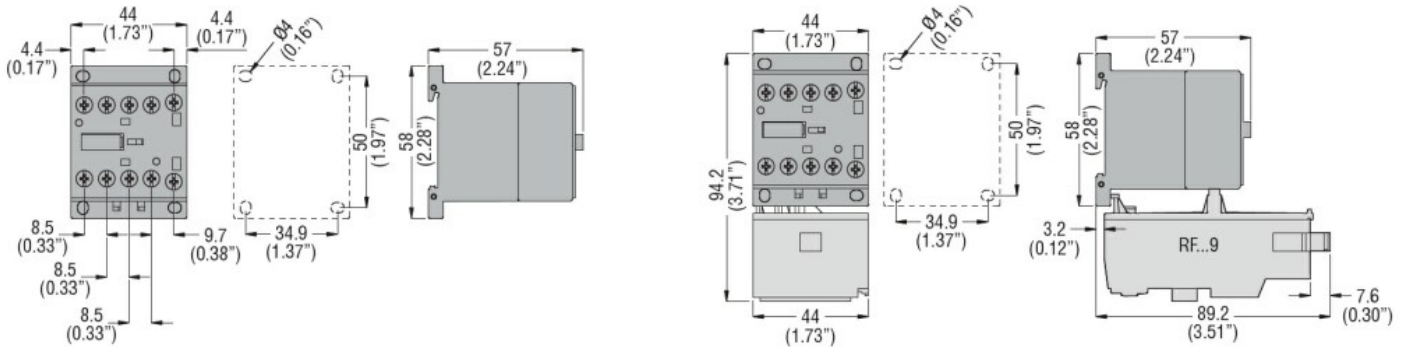
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Resistance & Protection

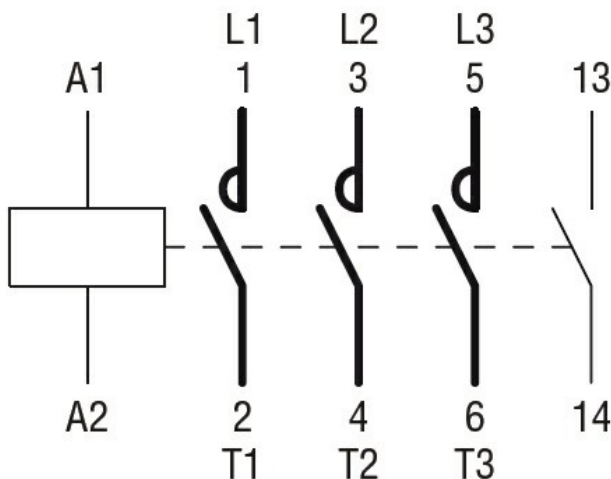
Pollution degree

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