



Product designation				Power contactor
Product type designation				BG09
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	
Conventional free air thermal current I _{th} IEC/EN	A			20
Operational current I _e	AC-1 (≤40°C)	A	20	
	AC-3 (≤440V ≤55°C)	A	9	
	AC-4 (400V)	A	4	
Rated operational power AC-3 (T≤55°C)	230V	kW	2.2	
	400V	kW	4	
	415V	kW	4.3	
	440V	kW	4.5	
	500V	kW	5	
	690V	kW	5	
Rated operational power AC-1 (T≤40°C)	230V	kW	8	
	400V	kW	14	
	500V	kW	16	
	690V	kW	22	
Short-time allowable current for 10s (IEC/EN60947-1)	A			96
Protection fuse	gG (IEC)	A	20	
	aM (IEC)	A	10	
Making capacity (RMS value)	A			92
Breaking capacity at voltage	440V	A	72	
	500V	A	72	
	690V	A	72	
Resistance per pole (average value)	mΩ			10
Power dissipation per pole (average value)	I _{th}	W	4	
	AC3	W	0.81	
Tightening torque for terminals	min	Nm	0.8	
	max	Nm	1	
	min	lbin	0.59	
	max	lbin	0.74	
Tightening torque for coil terminal				

	min	Nm	0.8
	max	Nm	1
	min	lbft	0.8
	max	lbft	0.74
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	177
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	cycles	500000
	mechanical load	cycles	20000000
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	12