



Product designation			Auxiliary
Draduct type decignation			contactor BG09
Product type designation Contact characteristics			DG09
Number of poles		Nr.	4
Rated insulation voltage Ui IEC/EN		V	690
Rated impulse withstand voltage Uimp		kV	6
Operational frequency			
operation and question	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current Ith		Α	20
Operational current le			·
	AC-1 (≤40°C)	Α	20
	AC-1 (≤55°C)	Α	18
	AC-1 (≤70°C)	Α	15
	AC-3 (≤440V ≤55°C)	Α	9
	AC-4 (400V)	Α	4
Rated operational power AC-1 (T≤40°C)			
	230V	kW	8
	400V	kW	14
	500V	kW	16
	690V	kW	22
IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series		_	
	≤24V	Α	12
	48V	Α	10
	75V	A	4
	110V	A	3
IEC may ourrent to in DC1 with L/B < 1mg with 2 poles in series	220V	A	
IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series	≤24V	Α	15
	48V	A	14
	75V	A	9
	110V	A	8
	220V	A	_
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series		- , ,	_
	≤24V	Α	16
	48V	Α	16
	75V	Α	10
	110V	Α	10
	220V	Α	2
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series			
	≤24V	Α	16
	48V	Α	16
	75V	Α	10
	110V	Α	10
	220V	Α	2



IEC max current le in DC3-DC5 with L/R < 15ms with 1 poles in series

IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series			
	≤24V	Α	7
	48V	Α	6
	75V	Α	2
	110V	A	1
	220V	Α	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series			
	≤24V	Α	8
	48V	Α	8
	75V	Α	5
	110V	Α	4
	220V	Α	· _
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series	220 V		
ILC max current le in DC3-DC3 with L/N = 13ms with 3 poles in series	2041 /	^	4.0
	≤24V	Α	10
	48V	Α	10
	75V	Α	6
	110V	Α	5
	220V	Α	0,8
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series			<u> </u>
	≤24V	Α	10
	48V	A	10
	75V	Α	6
	110V	Α	5
	220V	Α	0,8
Short-time allowable current for 10s (IEC/EN60947-1)		Α	96
Protection fuse			
	gG (IEC)	Α	20
	aM (IEC)	Α	10
Making capacity (RMS value)	aivi (ILO)	A	92
			<u> </u>
Breaking capacity at voltage	4.401.4		
	440V	Α	72
	500V	Α	72
	690V	Α	72
Resistance per pole (average value)		$m\Omega$	10
Power dissipation per pole (average value)			
	Ith	W	4
	AC-3	W	0.8
Tightening torque for terminals	,,,,,		
rightening torque for terminals		Nime	0.0
	min	Nm	0.8
	max	Nm	1
	min	lbin	9
	max	Ibin	9
Tightening torque for coil terminal			_
	min	Nm	0.8
	max	Nm	1
	min	lbin	9
		lbin	9
May number of wires simultaneously segments le	max		
Max number of wires simultaneously connectable		Nr.	2
Conductor section			
AWG/Kcmil			
	max		12
Flexible w/o lug conductor section			
-	min	mm²	0.8



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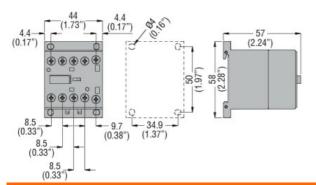
	max	mm²	2.5
	Flexible c/w lug conductor section		_
	min	mm²	1.5
	Elevible with insulated apade lug conductor section	mm²	2.5
	Flexible with insulated spade lug conductor section	mm²	1.5
	max	mm²	2.5
Power terminal protect	ion according to IEC/EN 60529		IP20
Mechanical features			
Operating position			
	normal		Vertical plan
	allowable		±30°
Fixing			Screw / DIN rail 35mm
Weight		g	200
Auxiliary contact chara	cteristics		
Thermal current Ith		Α	10
IEC/EN 60947-5-1 des	signation		Q600
Operations			
Mechanical life		cycles	20000000
Electrical life		cycles	500000
Safety related data	0d according to FN/ISO 12490 1		
Periormance level bit	Od according to EN/ISO 13489-1 rated load	cycles	500000
	mechanical load	cycles	2000000
EMC compatibility	mechanical load	Сустез	YES
DC coil operating			120
	ge	V	220
DC rated control voltage DC operating voltage	ge	V	220
DC rated control voltage	pick-up	V	220
DC rated control voltage		V %Us	220 75
DC rated control voltage	pick-up min max		
DC rated control voltage	pick-up min max drop-out	%Us %Us	75 115
DC rated control voltage	pick-up min max drop-out min	%Us %Us %Us	75 115
DC rated control voltage DC operating voltage	pick-up min max drop-out min max	%Us %Us	75 115
DC rated control voltage	pick-up min max drop-out min max tion ≤20°C	%Us %Us %Us %Us	75 115 10 25
DC rated control voltage DC operating voltage	pick-up min max drop-out min max tion ≤20°C	%Us %Us %Us %Us W	75 115 10 25 3.2
DC rated control voltage DC operating voltage Average coil consumption	pick-up min max drop-out min max tion ≤20°C	%Us %Us %Us %Us	75 115 10 25
DC rated control voltage DC operating voltage Average coil consumpt Max cycles frequency	pick-up min max drop-out min max tion ≤20°C	%Us %Us %Us %Us W W	75 115 10 25 3.2 3.2
DC rated control voltage DC operating voltage Average coil consumpt Max cycles frequency Mechanical operation	pick-up min max drop-out min max tion ≤20°C	%Us %Us %Us %Us W	75 115 10 25 3.2 3.2
DC rated control voltage DC operating voltage Average coil consumpt Max cycles frequency Mechanical operation Operating times	pick-up min max drop-out min max tion ≤20°C in-rush holding	%Us %Us %Us %Us W W	75 115 10 25 3.2 3.2
DC rated control voltage DC operating voltage Average coil consumpt Max cycles frequency Mechanical operation	pick-up min max drop-out min max tion ≤20°C in-rush holding	%Us %Us %Us %Us W W	75 115 10 25 3.2 3.2
DC rated control voltage DC operating voltage Average coil consumpt Max cycles frequency Mechanical operation Operating times	pick-up min max drop-out min max tion ≤20°C in-rush holding	%Us %Us %Us %Us W W	75 115 10 25 3.2 3.2
DC rated control voltage DC operating voltage Average coil consumpt Max cycles frequency Mechanical operation Operating times	pick-up min max drop-out min max tion ≤20°C in-rush holding ontrol in AC	%Us %Us %Us %Us W W	75 115 10 25 3.2 3.2
DC rated control voltage DC operating voltage Average coil consumpt Max cycles frequency Mechanical operation Operating times	pick-up min max drop-out min max tion ≤20°C in-rush holding ontrol in AC Closing NO min max	%Us %Us %Us %Us W W	75 115 10 25 3.2 3.2 3600
DC rated control voltage DC operating voltage Average coil consumpt Max cycles frequency Mechanical operation Operating times	pick-up min max drop-out min max tion ≤20°C in-rush holding ontrol in AC Closing NO min max Opening NO	%Us %Us %Us %Us W W cycles/h	75 115 10 25 3.2 3.2 3600
DC rated control voltage DC operating voltage Average coil consumpt Max cycles frequency Mechanical operation Operating times	pick-up min max drop-out min max tion ≤20°C in-rush holding ontrol in AC Closing NO min max Opening NO min	%Us %Us %Us %Us W W cycles/h	75 115 10 25 3.2 3.2 3600
DC rated control voltage DC operating voltage Average coil consumpt Max cycles frequency Mechanical operation Operating times	pick-up min max drop-out min max tion ≤20°C in-rush holding ontrol in AC Closing NO min max Opening NO min max	%Us %Us %Us %Us W W cycles/h	75 115 10 25 3.2 3.2 3600
DC rated control voltage DC operating voltage Average coil consumpt Max cycles frequency Mechanical operation Operating times	pick-up min max drop-out min max tion ≤20°C in-rush holding ontrol in AC Closing NO min max Opening NO min max Closing NC	%Us %Us %Us W W cycles/h	75 115 10 25 3.2 3.2 3600
DC rated control voltage DC operating voltage Average coil consumpt Max cycles frequency Mechanical operation Operating times	pick-up min max drop-out min max tion ≤20°C in-rush holding ontrol in AC Closing NO min max Opening NO min max Closing NC min	%Us %Us %Us %Us W W cycles/h	75 115 10 25 3.2 3.2 3600
DC rated control voltage DC operating voltage Average coil consumpt Max cycles frequency Mechanical operation Operating times	pick-up min max drop-out min max tion ≤20°C in-rush holding ontrol in AC Closing NO min max Opening NO min max Closing NC min max	%Us %Us %Us W W cycles/h	75 115 10 25 3.2 3.2 3600
DC rated control voltage DC operating voltage Average coil consumpt Max cycles frequency Mechanical operation Operating times	pick-up min max drop-out min max tion ≤20°C in-rush holding ontrol in AC Closing NO min max Opening NO min max Closing NC min	%Us %Us %Us %Us W W cycles/h	75 115 10 25 3.2 3.2 3600

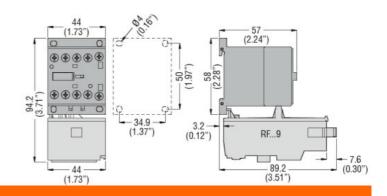


		max	ms	17
	in DC			
	Closing NO			
		min	ms	18
		max	ms	25
	Opening NO			
		min	ms	2
		max	ms	3
	Closing NC			•
		min	ms	3
	On anima NC	max	ms	5
	Opening NC	main	122.0	44
		min	ms ms	11 17
UL technical data		max	ms	17
Rated operational volta	age AC (III)		V	600
	for three-phase AC motor		v	000
i an load callellt (i LA)	Tot till de pliade Ae Motor	at 480V	Α	7.6
		at 600V	A	6.1
Yielded mechanical pe	rformance	at 000 V	- / \	<u> </u>
	for single-phase AC motor			
	Tor origin pridate the motor	110/120V	HP	0.5
		230V	HP	1.5
	for three-phase AC motor			
		200/208V	HP	2
		220/230V	HP	3
		460/480V	HP	5
		575/600V	HP	5
General USE				
	Contactor			
		AC current	Α	20
Short-circuit protection	fuse, 600V			
	High fault			
		Short circuit current	kA	100
		Fuse rating	Α	30
		Fuse class		J
	Standard fault			
		Short circuit current	kA	5
		Fuse rating	Α	30
And the Control Pitters		Fuse class		RK5
Ambient conditions				
Temperature	Operating temperature			
	Operating temperature		°C	50
		min may	°C	-50 +70
	Storage temperature	max		TIU
	Otorage temperature	min	°C	-60
		max	°C	+80
Max altitude		IIIdX	m	3000
Resistance & Protection			111	
Pollution degree				3
Dimensions				

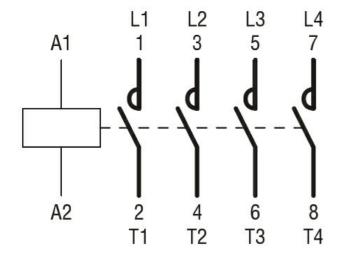


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Wiring diagrams



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