11BG0910A024

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 9A, AC COIL 50/60HZ, 24VAC, 1NO AUXILIARY CONTACT

Product designation			Auxiliary contactor
Product type designation			BG09
Contact characteristics			
Number of poles		nr.	3
Rated insulation voltage Ui		V	690
Rated impulse withstand voltage Uimp		kV	6
Operating frequency			
	Operational frequency min	Hz	25
	Operational frequency max	Hz	400
Conventional free air thermal current Ith		A	20
Operating current			
	Operational current AC3 (≤440V ≤55°C)	A	9
	Operational current AC4 (400V)	A	4
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			
	Breaking capacity 440V	A	72
	Breaking capacity 500V	A	72
	Breaking capacity 690V	A	72
Resistance per pole (average value)		mΩ	10
Power dissipation per pole (average value)			
	Power dissipation pole (average value) Ith	W	4
	AC3	W	0.81
Tightening torque for terminals			
	min	Nm	0.8
	max	Nm	1
	min	lbft	0.59
	max	lbft	0.74
Tightening torque for coil terminal			
	min	Nm	0.8
	max	Nm	1
	min	lbft	0.59
	max	lbft	0.74
max number of wires simultaneously connectable		nr.	2
Conductor section			
AWG			
	min		18
	max		12
Flexible w/o lug conductor section			
	min	mm²	0.75
	max	mm²	2.5

Flexible c/w lug conductor section				
		min	mm²	1.5
		max	mm²	2.5
Flexible with insulated spade lug conductor section				
		min	mm²	1.5
		max	mm²	2.5
Power terminal protection according to IEC/EN 60529				IP20
Auxiliary contact characteristics				
Type of contact				1 NA
Thermal current Ith			A	10
IEC/EN 60947-5-1 designation				A600
Ambient conditions				
Temperature				
Operating temperature				
		min	°C	-40
		max	°C	60
Storage temperature				
		min	°C	-55
		max	°C	70
Max altitude			m	3,000
Operating position				
		normal		Vertical plan
		allowable		±30°
Mounting				Screw / DIN rail 35mm
Weight			g	0.18
Operations				
Mechanical life			Cycles	20,000,000
Electrical life			Cycles	500000
Safety related data				
Mirror contats according to IEC/EN 609474-4-1				Yes
EMC compatibility				Yes
AC coil operating				
Rated AC voltage at 50/60Hz, 60Hz				
		min	V	12
		max	V	575
AC operating voltage				
of 50/60Hz coil powered at 50Hz				
pick-up				
		min	%Us	75
		max	%Us	115
drop-out				
		min	%Us	20
		max	%Us	55
of 50/60Hz coil powered at 60Hz				
pick-up				
		min	%Us	80
		max	%Us	115
drop-out				
		min	%Us	20
		max	%Us	55
of 60Hz coil powered at 60Hz				
pick-up				
		min	%Us	75

			max	%Us	115
		drop-out			
			min	%Us	20
			max	%Us	55
AC operating voltage					
	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
DC coil operating					
DC rated control voltage					
			min	V	6
			max	V	250
DC operating voltage					
	pick-up				
			min	%Us	75
			max	%Us	115
	drop-out				
			min	%Us	10
			max	%Us	20
Average coil consuption ≤20°C					
			in-rush	W	3.2
			holding	W	3.2
Max cycles frequency					
Mechanical operations				Cycles/h	3,600
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	7.6
at 600V	A	6.1

Yielded mechanical performance

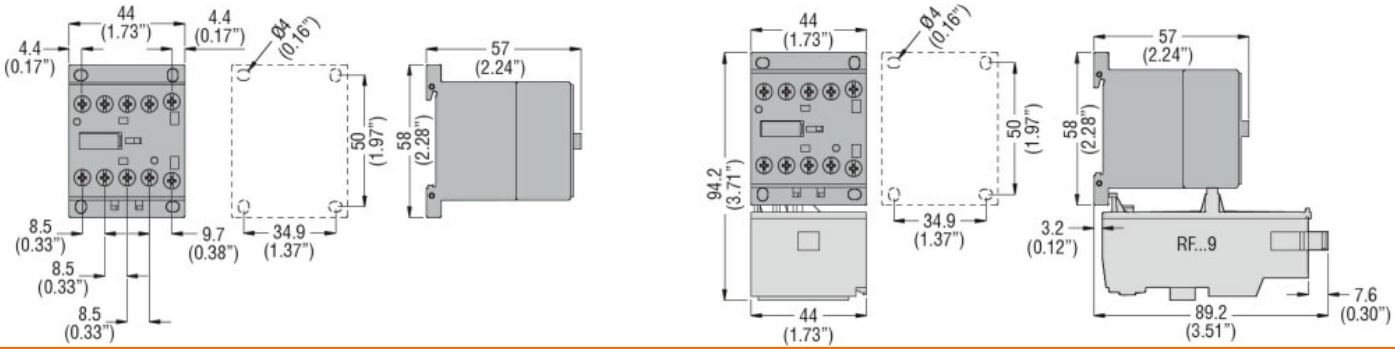
for single-phase AC motor

at 110/120V	hp	0.5
at 230V	hp	1.5

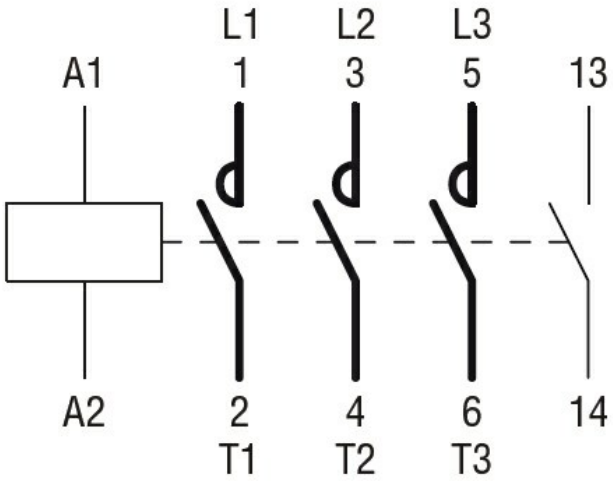
for three-phase AC motor

at 200/208V	hp	2
at 220/230V	hp	3
at 460/480V	hp	5
at 575/600V	hp	5

Dimensions



Wiring diagrams



Certifications and compliance

Certifications

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

Compliance

CCC
cULus
EAC

ETIM 6 classification

EC000066 - Power contactor, AC switching