



Contact characteristics

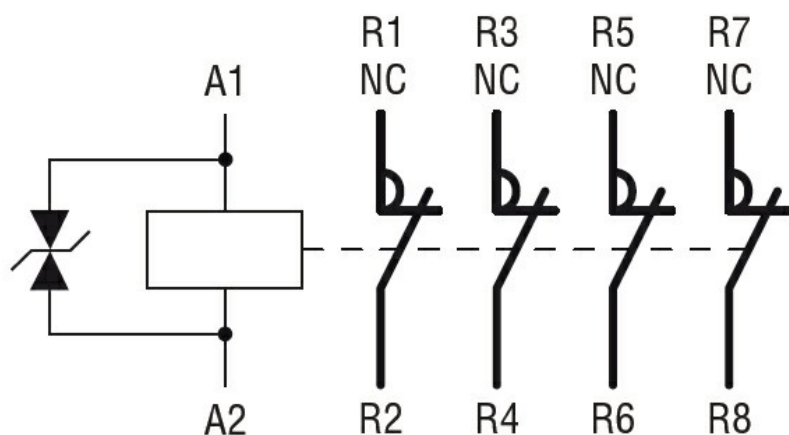
Number of poles	Nr.	4
Rated insulation voltage U _i IEC/EN	V	690
Rated impulse withstand voltage U _{imp}	kV	6
Operational frequency	min	Hz 25
	max	Hz 400
IEC Conventional free air thermal current I _{th} ≤ 40°C	A	45
Operational current I _e	AC-1 (≤40°C)	A 45
	AC-1 (≤55°C)	A 36
	AC-1 (≤70°C)	A 32
	AC-3 (≤440V ≤55°C)	A 26
	AC-4 (400V)	A 11.5
Rated operational power AC-1 (T≤40°C)	230V	kW 17
	400V	kW 30
	500V	kW 37
	690V	kW 51
Short-time allowable current for 10s (IEC/EN60947-1)	A	210
Protection fuse	gG (IEC)	A 50
	aM (IEC)	A 32
Making capacity (RMS value)	A	260
Breaking capacity at voltage	440V	A 208
	500V	A 184
	690V	A 168
Resistance per pole (average value)	mΩ	2
Power dissipation per pole (average value)	I _{th}	W 4
	AC-3	W 1.4
Tightening torque for terminals	min	Nm 2.5
	max	Nm 3
	min	I _{bin} 1.8
	max	I _{bin} 2.2
Tightening torque for coil terminal	min	Nm 0.8
	max	Nm 1
	min	I _{bin} 0.8
	max	I _{bin} 0.74
Max number of wires simultaneously connectable	Nr.	2
Conductor section	AWG/Kcmil	

	max	6	
Flexible w/o lug conductor section	min	mm ²	2.5
	max	mm ²	16
Flexible c/w lug conductor section	min	mm ²	1
	max	mm ²	10
Flexible with insulated spade lug conductor section	min	mm ²	1
	max	mm ²	16
Power terminal protection according to IEC/EN 60529			IP20 when properly wired
Mechanical features			
Operating position	normal allowable		Vertical plan ±30°
Fixing			Screw / DIN rail 35mm
Weight		g	670
Operations			
Mechanical life		cycles	20000000
Electrical life		cycles	1600000
Safety related data			
Performance level B10d according to EN/ISO 13489-1	rated load mechanical load	cycles	1600000
		cycles	20000000
EMC compatibility			yes
AC coil operating			
AC operating voltage			of 50/60Hz coil powered at 50Hz drop-out
	max	%Us	55
DC coil operating			
DC rated control voltage		V	220
DC operating voltage			
pick-up	min	%Us	80
	max	%Us	125
drop-out	min	%Us	10
	max	%Us	40
Average coil consumption ≤20°C	in-rush holding	W	5.4
		W	5.4
Max cycles frequency			
Mechanical operation		cycles/h	3600
Operating times			
Average time for Us control in AC	Closing NO	min	ms
		max	ms
	Opening NO	min	ms
		max	ms

		Closing NC	max	ms	15		
		Opening NC	min	ms	9		
			max	ms	20		
			min	ms	9		
			max	ms	17		
		in DC	Closing NC	min	ms	23	
		Closing NC	max	ms	28		
			Opening NC	min	ms	46	
		max		ms	56		
		UL technical data					
		Rated operational voltage AC (UL)			V	600	
		Full-load current (FLA) for three-phase AC motor			at 480V	A	21
Yielded mechanical performance		for single-phase AC motor	at 600V	A	22		
		110/120V	HP	2			
			230V	HP	5		
		for three-phase AC motor			200/208V	HP	7.5
		220/240V	HP	7.5			
		460/480V	HP	15			
		575/600V	HP	20			
		General USE					
		Contactor					
				AC current	A	45	
		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 60335-2-89

IEC/EN/BS 60947-1

IEC/EN/BS 60947-4-1

UL 60947-1

UL 60947-4-1

Certificates

CCC

CSA C22.2 n. 60335-2-40:22 LZGH A2L

CSA C22.2 No. 60335-2-89:21 LZGH A2L

cULus

EAC

UL 60335-2-40 LZGH A2L

UL 60335-2-89 LZGH A2L

ETIM classification

ETIM 8.0

EC000066 -
Power contactor,
AC switching