



Contact characteristics

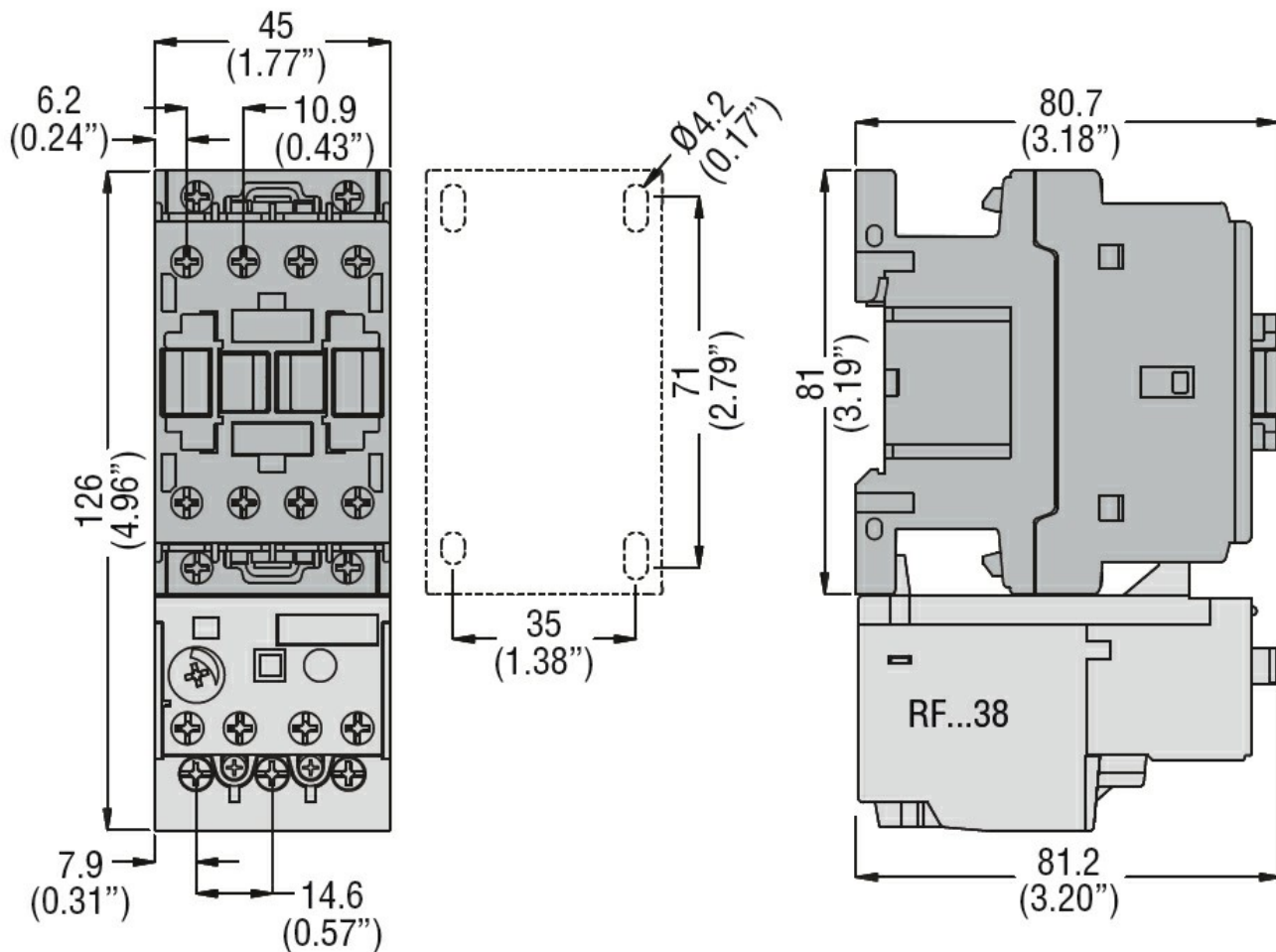
Number of poles	Nr.	3
Rated insulation voltage Ui IEC/EN	V	690
Rated impulse withstand voltage Uimp	kV	6
Operational frequency	min	Hz 25
	max	Hz 400
IEC Conventional free air thermal current Ith ≤ 40°C	A	32
Operational current Ie	AC-1 (≤40°C)	A 32
	AC-1 (≤55°C)	A 26
	AC-1 (≤70°C)	A 23
	AC-3 (≤440V ≤55°C)	A 18
	AC-4 (400V)	A 8.5
Rated operational power AC-3 (T≤55°C)	230V	kW 4
	400V	kW 7.5
	415V	kW 9
	440V	kW 9
	500V	kW 10
	690V	kW 10
Rated operational power AC-1 (T≤40°C)	230V	kW 12
	400V	kW 21
	500V	kW 26
	690V	kW 36
IEC max current Ie in DC1 with L/R ≤ 1ms with 1 poles in series	≤24V	A 17
	48V	A 15
	75V	A 15
	110V	A 6
	220V	A –
IEC max current Ie in DC1 with L/R ≤ 1ms with 2 poles in series	≤24V	A 20
	48V	A 20
	75V	A 20
	110V	A 13
	220V	A 1
IEC max current Ie in DC1 with L/R ≤ 1ms with 3 poles in series	≤24V	A 22
	48V	A 22
	75V	A 20
	110V	A 16
	220V	A 11
IEC max current Ie in DC1 with L/R ≤ 1ms with 4 poles in series		

	≤24V	A	22
	48V	A	22
	75V	A	20
	110V	A	18
	220V	A	13
IEC max current I_e in DC3-DC5 with $L/R \leq 15\text{ms}$ with 1 poles in series			
	≤24V	A	12
	48V	A	11
	75V	A	11
	110V	A	2
	220V	A	–
IEC max current I_e in DC3-DC5 with $L/R \leq 15\text{ms}$ with 2 poles in series			
	≤24V	A	15
	48V	A	13
	75V	A	13
	110V	A	8
	220V	A	2
IEC max current I_e in DC3-DC5 with $L/R \leq 15\text{ms}$ with 3 poles in series			
	≤24V	A	18
	48V	A	18
	75V	A	16
	110V	A	12
	220V	A	6
IEC max current I_e in DC3-DC5 with $L/R \leq 15\text{ms}$ with 4 poles in series			
	≤24V	A	18
	48V	A	18
	75V	A	16
	110V	A	13
	220V	A	8
Short-time allowable current for 10s (IEC/EN60947-1)		A	200
Protection fuse			
	gG (IEC)	A	32
	aM (IEC)	A	20
Making capacity (RMS value)		A	180
Breaking capacity at voltage			
	440V	A	144
	500V	A	120
	690V	A	94
Resistance per pole (average value)		mΩ	2.5
Power dissipation per pole (average value)			
	I_{th}	W	2.6
	AC-3	W	0.8
Tightening torque for terminals			
	min	Nm	1.5
	max	Nm	1.8
	min	lbin	1.1
	max	lbin	1.5
Tightening torque for coil terminal			
	min	Nm	0.8
	max	Nm	1
	min	lbin	0.8
	max	lbin	0.74
Max number of wires simultaneously connectable		Nr.	2

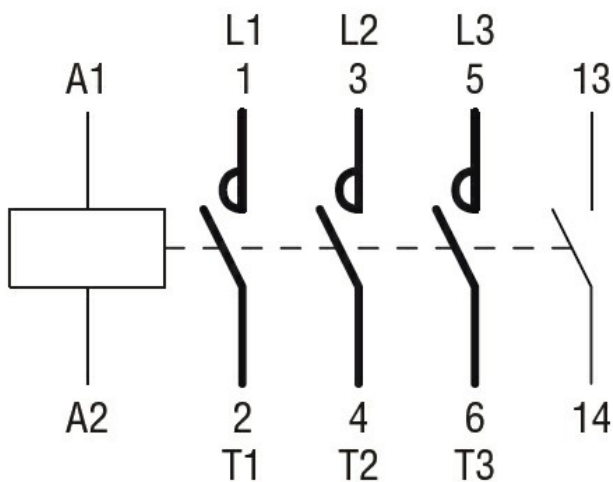
Conductor section			
AWG/Kcmil			
	max	10	
Flexible w/o lug conductor section			
	min	mm ²	1
	max	mm ²	6
Flexible c/w lug conductor section			
	min	mm ²	1
	max	mm ²	4
Flexible with insulated spade lug conductor section			
	min	mm ²	1
	max	mm ²	6
Power terminal protection according to IEC/EN 60529			IP20 when properly wired
Cable stripping lenght			
	main circuit	mm	10
	command circuit	mm	8
Mechanical features			
Operating position			
	normal allowable	Vertical plan ±30°	
Fixing			Screw / DIN rail 35mm
Weight		g	367
Auxiliary contact characteristics			
Thermal current I _{th}		A	10
IEC/EN 60947-5-1 designation			A600 - P600
Operating current AC15			
	230V	A	3
	400V	A	1.9
	500V	A	1.4
Operating current DC12			
	110V	A	5.7
Operating current DC13			
	24V	A	5.7
	48V	A	2.9
	60V	A	2.3
	110V	A	1.25
	125V	A	1.1
	220V	A	0.55
	600V	A	0.2
Operations			
Mechanical life		cycles	20000000
Electrical life		cycles	1600000
Safety related data			
Performance level B10d according to EN/ISO 13489-1			
	rated load	cycles	1600000
	mechanical load	cycles	20000000
EMC compatibility			yes
AC coil operating			
Rated AC voltage at 50/60Hz		V	400
AC operating voltage			
of 50/60Hz coil powered at 50Hz			

AC average coil consumption at 20°C	pick-up	min	%Us	80	
		max	%Us	110	
	drop-out	min	%Us	20	
		max	%Us	55	
	of 50/60Hz coil powered at 60Hz				
	pick-up	min	%Us	85	
		max	%Us	110	
	drop-out	min	%Us	20	
		max	%Us	55	
	of 50/60Hz coil powered at 50Hz				
	in-rush	VA	75		
	holding	VA	9		
of 50/60Hz coil powered at 60Hz					
	in-rush	VA	70		
	holding	VA	6.5		
of 60Hz coil powered at 60Hz					
	in-rush	VA	75		
	holding	VA	9		
Dissipation at holding ≤20°C 50Hz			W	2.5	
Max cycles frequency					
Mechanical operation			cycles/h	3600	
Operating times					
Average time for Us control					
in AC					
	Closing NO	min	ms	8	
		max	ms	24	
	Opening NO	min	ms	10	
		max	ms	20	
	Closing NC	min	ms	14	
		max	ms	28	
	Opening NC	min	ms	7	
		max	ms	18	
	UL technical data				
	Rated operational voltage AC (UL)			V	600
Full-load current (FLA) for three-phase AC motor					
	at 480V	A	14		
	at 600V	A	17		
Yielded mechanical performance					
for single-phase AC motor					
	110/120V	HP	1		
	230V	HP	3		
for three-phase AC motor					
	200/208V	HP	5		
	220/240V	HP	5		
	460/480V	HP	10		

		575/600V	HP	15
General USE				
Contactor		AC current	A	32
Auxiliary contacts		AC voltage	V	600
		AC current	A	10
		DC voltage	V	250
		DC current	A	1
Short-circuit protection fuse, 600V				
High fault		Short circuit current	kA	100
		Fuse rating	A	60
		Fuse class		J
Standard fault		Short circuit current	kA	5
		Fuse rating	A	80
Contact rating of auxiliary contacts according to UL				A600 - P600
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

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 18A, AC COIL 50/60HZ,
400VAC, 1NO AUXILIARY CONTACT

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