



Contact characteristics

Number of poles	Nr.	4	
Rated insulation voltage U_i IEC/EN	V	1000	
Rated impulse withstand voltage U_{imp}	kV	8	
Operational frequency	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current $I_{th} \leq 40^{\circ}\text{C}$	A	115	
Operational current I_e	AC-1 ($\leq 40^{\circ}\text{C}$)	A	115
	AC-1 ($\leq 55^{\circ}\text{C}$)	A	95
	AC-1 ($\leq 70^{\circ}\text{C}$)	A	80
	AC-3 ($\leq 440\text{V} \leq 55^{\circ}\text{C}$)	A	80
	AC-4 (400V)	A	38
Rated operational current AC-3 ($T \leq 55^{\circ}\text{C}$)	230V	A	80
	400V	A	80
	415V	A	80
	440V	A	80
	500V	A	78
	690V	A	57
	1000V	A	28
Rated operational power AC-1 ($T \leq 40^{\circ}\text{C}$)	230V	kW	43
	400V	kW	76
	500V	kW	95
	690V	kW	120
IEC max current I_e in DC1 with $L/R \leq 1\text{ms}$ with 1 poles in series	$\leq 24\text{V}$	A	70
	48V	A	60
	75V	A	60
	110V	A	8
	220V	A	–
IEC max current I_e in DC1 with $L/R \leq 1\text{ms}$ with 2 poles in series	$\leq 24\text{V}$	A	100
	48V	A	100
	75V	A	100
	110V	A	80
	220V	A	9
IEC max current I_e in DC1 with $L/R \leq 1\text{ms}$ with 3 poles in series	$\leq 24\text{V}$	A	100
	48V	A	100
	75V	A	100
	110V	A	85
	220V	A	95

IEC max current Ie in DC1 with L/R ≤ 1ms with 4 poles in series			
≤24V	A	100	
48V	A	100	
75V	A	100	
110V	A	100	
220V	A	115	
IEC max current Ie in DC3-DC5 with L/R ≤ 15ms with 1 poles in series			
≤24V	A	40	
48V	A	30	
75V	A	30	
110V	A	3	
220V	A	–	
IEC max current Ie in DC3-DC5 with L/R ≤ 15ms with 2 poles in series			
≤24V	A	60	
48V	A	50	
75V	A	50	
110V	A	40	
220V	A	5	
IEC max current Ie in DC3-DC5 with L/R ≤ 15ms with 3 poles in series			
≤24V	A	80	
48V	A	70	
75V	A	70	
110V	A	60	
220V	A	64	
IEC max current Ie in DC3-DC5 with L/R ≤ 15ms with 4 poles in series			
≤24V	A	90	
48V	A	90	
75V	A	90	
110V	A	75	
220V	A	80	
Short-time allowable current for 10s (IEC/EN60947-1)		A	640
Protection fuse			
	gG (IEC)	A	125
	aM (IEC)	A	80
Making capacity (RMS value)		A	800
Breaking capacity at voltage			
	440V	A	640
	500V	A	625
	690V	A	456
Resistance per pole (average value)		mΩ	0.6
Power dissipation per pole (average value)			
	Ith	W	7.9
	AC-3	W	3.8
Tightening torque for terminals			
	min	Nm	4
	max	Nm	5
	min	Ibin	2.95
	max	Ibin	3.69
Tightening torque for coil terminal			
	min	Nm	0.8
	max	Nm	1
	min	Ibin	0.59
	max	Ibin	0.74

Max number of wires simultaneously connectable			Nr.	2
Conductor section				
AWG/Kcmil				
		max	2	
Flexible w/o lug conductor section				
		min	mm ²	1.5
		max	mm ²	35
Flexible c/w lug conductor section				
		min	mm ²	1.5
		max	mm ²	35
Power terminal protection according to IEC/EN 60529				IP20 front
Mechanical features				
Operating position				
		normal allowable	Vertical plan ±30°	
Fixing				Screw / DIN rail 35mm
Weight			g	1280
Operations				
Mechanical life			cycles	15000000
Electrical life			cycles	1300000
Safety related data				
Performance level B10d according to EN/ISO 13489-1				
		rated load	cycles	1300000
		mechanical load	cycles	15000000
EMC compatibility				yes
AC coil operating				
Rated AC voltage at 50/60Hz, 60Hz				
		min	V	60
		max	V	110
AC operating voltage				
of 50/60Hz coil powered at 50Hz				
pick-up		min	%Us	80 Us min
		max	%Us	110 Us max
drop-out				
		max	%Us	≤70 Us min
of 50/60Hz coil powered at 60Hz				
pick-up		min	%Us	80 Us min
		max	%Us	110 Us max
drop-out				
		max	%Us	≤70 Us min
AC average coil consumption at 20°C				
of 50/60Hz coil powered at 50Hz		in-rush	VA	35...120
		holding	VA	1.5...3.7
of 50/60Hz coil powered at 60Hz		in-rush	VA	35...120
		holding	VA	1.5...3.7
of 60Hz coil powered at 60Hz		in-rush	VA	210
		holding	VA	15

Dissipation at holding $\leq 20^{\circ}\text{C}$ 50Hz		W	1...2.5
DC coil operating			
DC rated control voltage		min	V 60
		max	V 110
max		V	110
DC operating voltage			
pick-up	min	%Us	80 Us min
	max	%Us	110 Us max
drop-out		max	%Us ≤ 70 Us min
Average coil consumption $\leq 20^{\circ}\text{C}$			
		in-rush	W 23...68
		holding	W 1.2...1.9
Max cycles frequency			
Mechanical operation		cycles/h	1500
Operating times			
Average time for Us control			
in AC			
Closing NO		min	ms 40
		max	ms 85
Opening NO		min	ms 20
		max	ms 55
in DC			
Closing NO		min	ms 40
		max	ms 85
Opening NO		min	ms 20
		max	ms 55
UL technical data			
Rated operational voltage AC (UL)		V	600
Full-load current (FLA) for three-phase AC motor			
		at 480V	A 77
		at 600V	A 77
Yielded mechanical performance			
for three-phase AC motor			
200/208V		HP	25
220/240V		HP	30
460/480V		HP	60
575/600V		HP	75
General USE			
Contactor		AC current	A 115
Short-circuit protection fuse, 600V			
High fault		Short circuit current	kA 100
		Fuse rating	A 200
		Fuse class	J
Standard fault		Short circuit current	kA 10

Fuse rating	A	200
Fuse class		RK5

Ambient conditions

Temperature

Operating temperature

min	°C	-40
max	°C	70

Storage temperature

min	°C	-50
max	°C	80

Max altitude

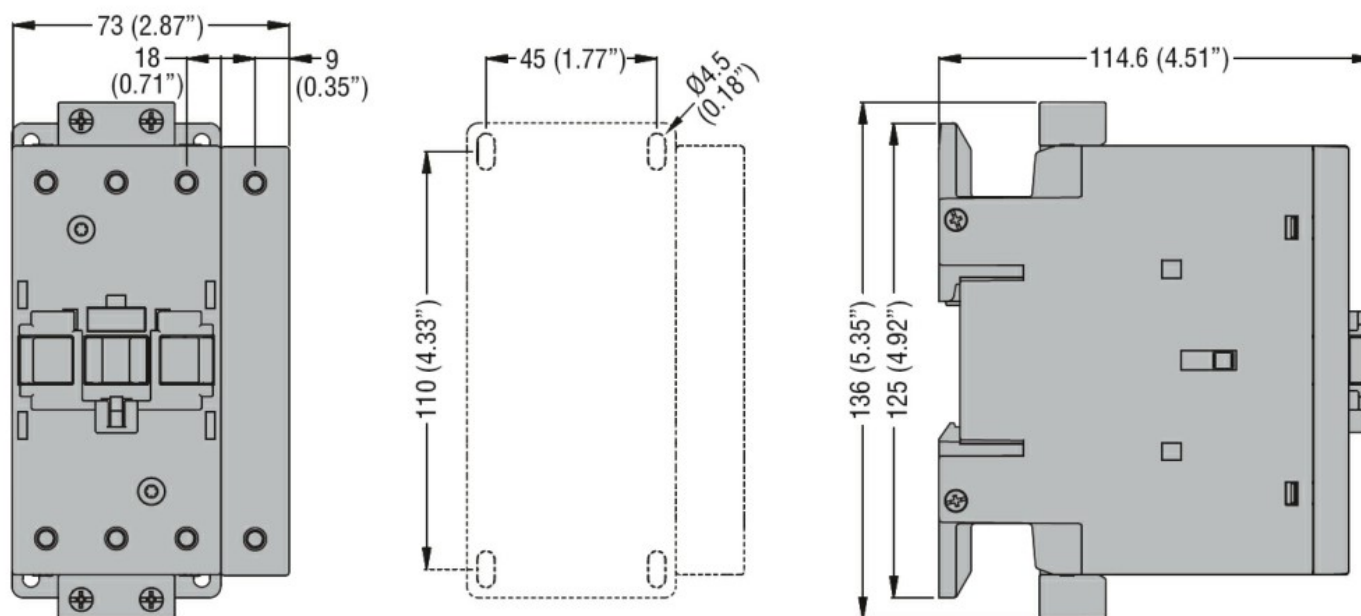
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Resistance & Protection

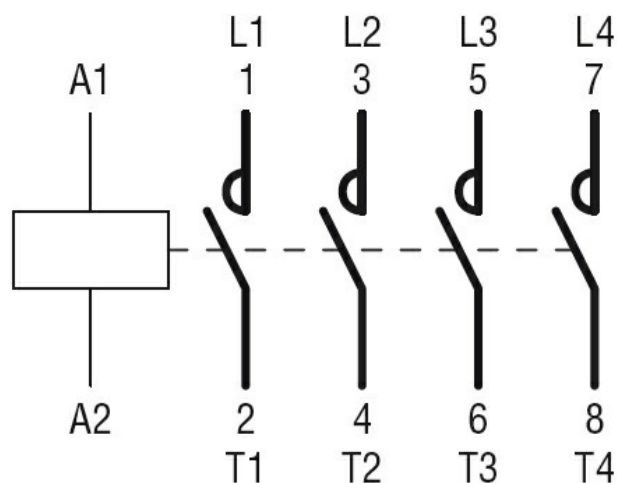
Pollution degree

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

UL 60335-2-40 LZGH A2L

UL 60335-2-89 LZGH A2L

ETIM classification

ETIM 8.0

EC000066 -
Power contactor,
AC switching