



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 I_e in DC1 with $L/R \leq 1\text{ms}$ with 4 poles in series

$\leq 24\text{V}$	A	100
48V	A	100
75V	A	100
110V	A	100
220V	A	115

IEC max current I_e in DC3-DC5 with $L/R \leq 15\text{ms}$ with 1 poles in series

$\leq 24\text{V}$	A	40
48V	A	30
75V	A	30
110V	A	3
220V	A	–

IEC max current I_e in DC3-DC5 with $L/R \leq 15\text{ms}$ with 2 poles in series

$\leq 24\text{V}$	A	60
48V	A	50
75V	A	50
110V	A	40
220V	A	5

IEC max current I_e in DC3-DC5 with $L/R \leq 15\text{ms}$ with 3 poles in series

$\leq 24\text{V}$	A	80
48V	A	70
75V	A	70
110V	A	60
220V	A	64

IEC max current I_e in DC3-DC5 with $L/R \leq 15\text{ms}$ with 4 poles in series

$\leq 24\text{V}$	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
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Protection fuse

gG (IEC)	A	125
aM (IEC)	A	80

Making capacity (RMS value)

A	800
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Breaking capacity at voltage

440V	A	640
500V	A	625
690V	A	456

Resistance per pole (average value)

mΩ	0.6
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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 20
			max	V 48
AC operating voltage				
of 50/60Hz coil powered at 50Hz pick-up			min	%Us 85 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 85 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 holding	VA 90 2.7
of 50/60Hz coil powered at 60Hz			in-rush holding	VA 90 2.7
of 60Hz coil powered at 60Hz			in-rush holding	VA 90 2.7

Dissipation at holding $\leq 20^{\circ}\text{C}$ 50Hz		W	1...2.5
DC coil operating			
DC rated control voltage		min	V 20
		max	V 48
max		V	48
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 67
		holding	W 1.3
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

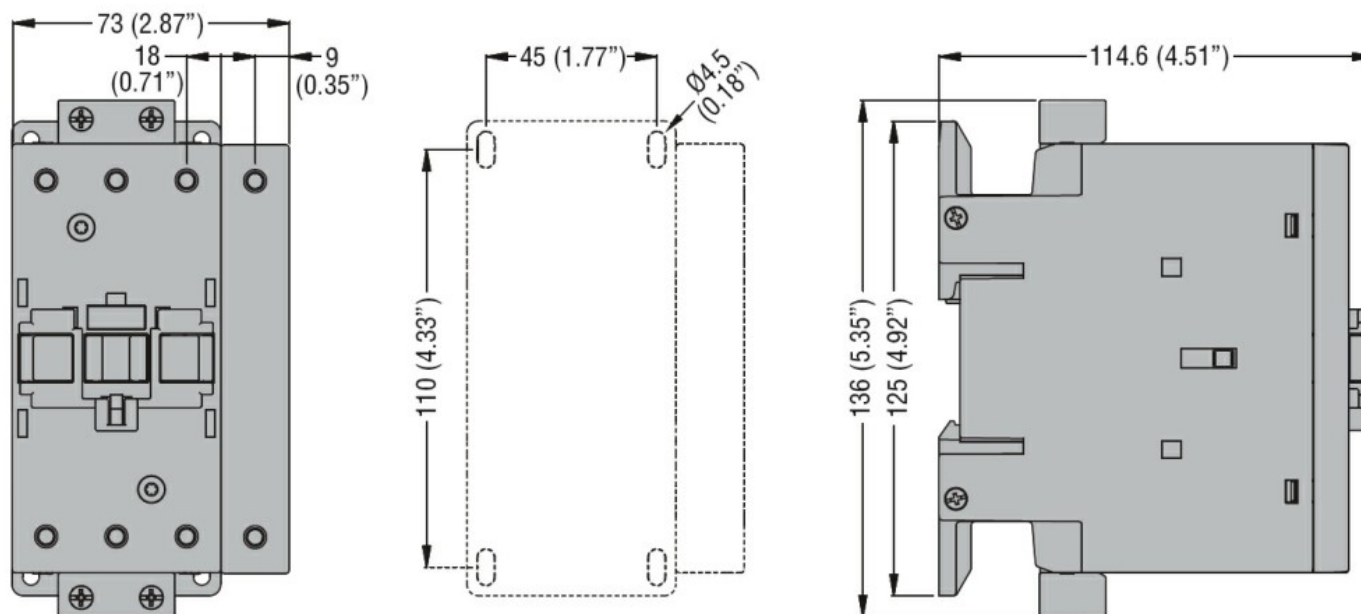
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Resistance & Protection

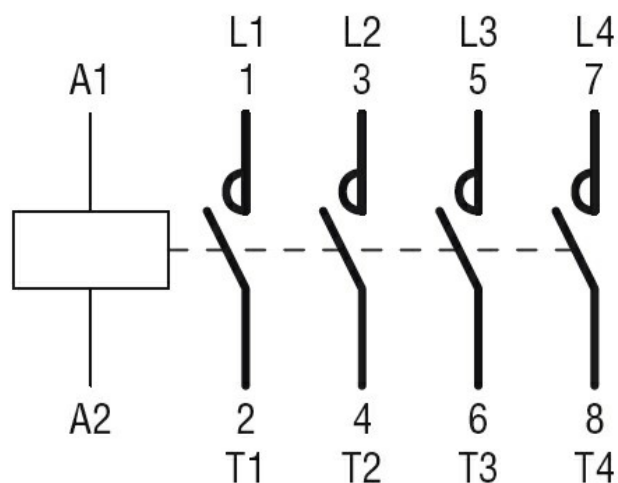
Pollution degree

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