



Contact characteristics			
Number of poles	Nr.	3	
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} ≤ 40°C	A	140	
Operational current I _e	AC-1 (≤40°C)	A	140
	AC-1 (≤55°C)	A	115
	AC-1 (≤70°C)	A	100
	AC-3 (≤440V ≤55°C)	A	95
	AC-4 (400V)	A	45
Rated operational power AC-3 (T≤55°C)	230V	kW	30
	400V	kW	55
	415V	kW	55
	440V	kW	55
	500V	kW	75
	690V	kW	90
	1000V	kW	45
Rated operational current AC-3 (T≤55°C)	230V	A	95
	400V	A	95
	415V	A	95
	440V	A	95
	500V	A	95
	690V	A	93
	1000V	A	33
IEC max current I _e in DC1 with L/R ≤ 1ms with 1 poles in series	≤24V	A	140
	48V	A	140
	75V	A	100
	110V	A	10
	220V	A	–
IEC max current I _e in DC1 with L/R ≤ 1ms with 2 poles in series	≤24V	A	140
	48V	A	140
	75V	A	140
	110V	A	110
	220V	A	12
IEC max current I _e in DC1 with L/R ≤ 1ms with 3 poles in series	≤24V	A	140
	48V	A	140

	75V	A	155
	110V	A	120
	220V	A	125
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IEC max current I _e in DC1 with L/R ≤ 1ms with 4 poles in series			
	≤24V	A	140
	48V	A	140
	75V	A	155
	110V	A	140
	220V	A	140
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IEC max current I _e in DC3-DC5 with L/R ≤ 15ms with 1 poles in series			
	≤24V	A	140
	48V	A	44
	75V	A	36
	110V	A	6
	220V	A	–
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IEC max current I _e in DC3-DC5 with L/R ≤ 15ms with 2 poles in series			
	≤24V	A	140
	48V	A	63
	75V	A	60
	110V	A	55
	220V	A	7
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IEC max current I _e in DC3-DC5 with L/R ≤ 15ms with 3 poles in series			
	≤24V	A	140
	48V	A	115
	75V	A	90
	110V	A	85
	220V	A	76
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IEC max current I _e in DC3-DC5 with L/R ≤ 15ms with 4 poles in series			
	≤24V	A	140
	48V	A	110
	75V	A	110
	110V	A	105
	220V	A	95
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Short-time allowable current for 10s (IEC/EN60947-1)		A	760
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Protection fuse			
	gG (IEC)	A	160
	aM (IEC)	A	100
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Making capacity (RMS value)		A	1200
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Breaking capacity at voltage			
	440V	A	1100
	500V	A	775
	690V	A	745
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Resistance per pole (average value)		mΩ	0.45
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Power dissipation per pole (average value)			
	I _{th}	W	8.8
	AC-3	W	4.1
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Tightening torque for terminals			
	min	Nm	6
	max	Nm	7
	min	I _{bin}	4.4
	max	I _{bin}	5.2
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Tightening torque for coil terminal			
	min	Nm	0.8

		max	Nm	1
		min	Ibin	0.59
		max	Ibin	0.74
Conductor section	AWG/Kcmil			
		max		2/0
	Flexible w/o lug conductor section			
		min	mm ²	1.5
		max	mm ²	70
	Flexible c/w lug conductor section			
		min	mm ²	1.5
		max	mm ²	70
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	2060
Auxiliary contact characteristics				
Thermal current I _{th}			A	140
Operations				
Mechanical life			cycles	15000000
Electrical life			cycles	1400000
Safety related data				
Performance level B10d according to EN/ISO 13489-1		rated load	cycles	1400000
		mechanical load	cycles	15000000
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	130
		holding	VA	3.5
	of 50/60Hz coil powered at 60Hz			
		in-rush	VA	130
		holding	VA	3.5
	of 60Hz coil powered at 60Hz			

	in-rush	VA	130
	holding	VA	3.5
Dissipation at holding $\leq 20^{\circ}\text{C}$ 50Hz			W 1.3...1,5
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	76
	holding	W	1.7
Max cycles frequency			
Mechanical operation			cycles/h 1500
Operating times			
Average time for Us control			
	in AC		
	Closing NO		
	min	ms	45
	max	ms	90
	Opening NO		
	min	ms	24
	max	ms	60
	in DC		
	Closing NO		
	min	ms	45
	max	ms	85
	Opening NO		
	min	ms	24
	max	ms	60
UL technical data			
Rated operational voltage AC (UL)			V 600
Yielded mechanical performance			
	for three-phase AC motor		
	200/208V	HP	30
	220/240V	HP	30
	460/480V	HP	60
	575/600V	HP	75
General USE			
	Contactor		
	AC current	A	150
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	250

Fuse class RK5

Ambient conditions

Temperature

Operating temperature

min °C -50
max °C 70

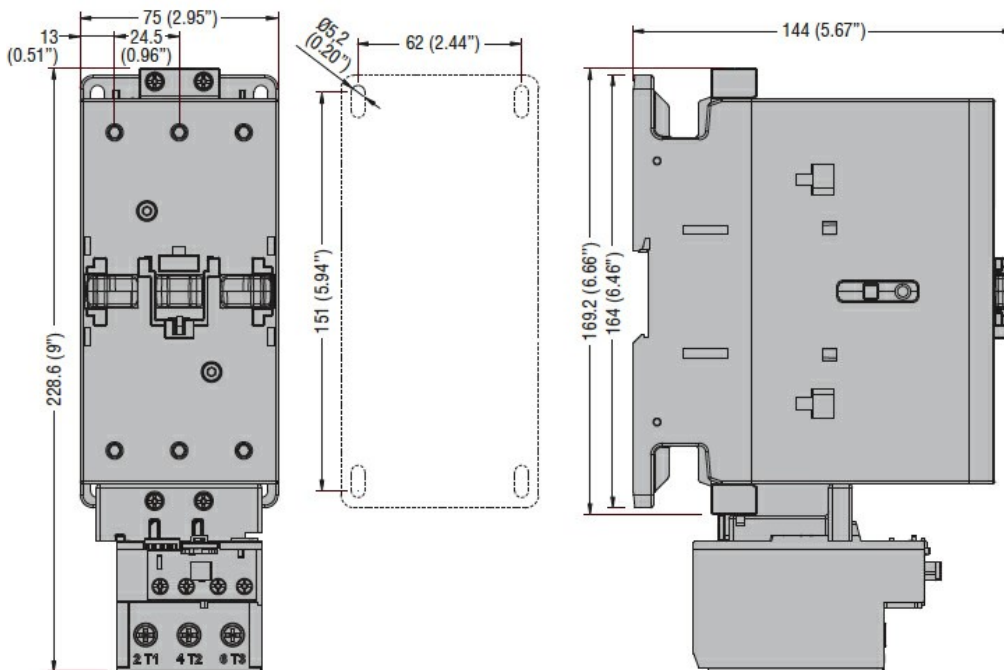
Storage temperature

min °C -60
max °C +80

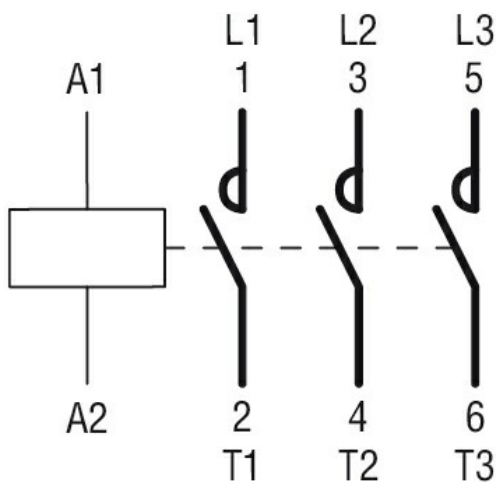
Max altitude

m 3000

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