



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 $I_{th} \leq 40^\circ\text{C}$	A	1000
Operational current I_e	AC-1 ($\leq 40^\circ\text{C}$)	A 1000
	AC-1 ($\leq 55^\circ\text{C}$)	A 850
	AC-1 ($\leq 70^\circ\text{C}$)	A 700
	AC-4 (400V)	A 260
Rated operational power AC-1 ($T \leq 40^\circ\text{C}$)	230V	kW 350
	400V	kW 600
	500V	kW 750
	690V	kW 1000
IEC max current I_e in DC1 with $L/R \leq 1\text{ms}$ with 1 poles in series	75V	A 800
	110V	A 460
	220V	A --
	330V	A --
	460V	A --
IEC max current I_e in DC1 with $L/R \leq 1\text{ms}$ with 2 poles in series	75V	A 800
	110V	A 800
	220V	A 700
	330V	A --
	460V	A --
IEC max current I_e in DC1 with $L/R \leq 1\text{ms}$ with 3 poles in series	75V	A 800
	110V	A 800
	220V	A 800
	330V	A 700
	460V	A --
IEC max current I_e in DC1 with $L/R \leq 1\text{ms}$ with 4 poles in series	75V	A 800
	110V	A 800
	220V	A 800
	330V	A 750
	460V	A 700
IEC max current I_e in DC3-DC5 with $L/R \leq 15\text{ms}$ with 1 poles in series	75V	A 800
	110V	A 460

	220V	A	--
	330V	A	--
	460V	A	--
IEC max current I _e in DC3-DC5 with L/R ≤ 15ms with 2 poles in series			
	75V	A	800
	110V	A	800
	220V	A	700
	330V	A	--
	460V	A	--
IEC max current I _e in DC3-DC5 with L/R ≤ 15ms with 3 poles in series			
	75V	A	800
	110V	A	800
	220V	A	800
	330V	A	650
	460V	A	--
IEC max current I _e in DC3-DC5 with L/R ≤ 15ms with 4 poles in series			
	75V	A	800
	110V	A	800
	220V	A	800
	330V	A	650
	460V	A	700
Short-time allowable current for 10s (IEC/EN60947-1)		A	5600
Protection fuse	gG (IEC)	A	1000
Making capacity (RMS value)		A	6300
Breaking capacity at voltage	440V	A	6300
	500V	A	5600
	690V	A	5000
Resistance per pole (average value)		mΩ	0.14
Power dissipation per pole (average value)	I _{th}	W	140
	AC-3	W	56
Tightening torque for terminals			
	min	Nm	55
	max	Nm	55
	min	lbin	40.6
	max	lbin	40.6
Tightening torque for coil terminal			
	min	Nm	1
	max	Nm	1
	min	lbin	0.74
	max	lbin	0.74
Max number of wires simultaneously connectable		Nr.	2
Conductor section	AWG/Kcmil		
	max		2x 900 kcmil
Power terminal protection according to IEC/EN 60529			IP00
Mechanical features			
Operating position	normal allowable		Vertical plan ±30°
Fixing			Screw

Weight	g	2120
Operations		
Mechanical life	cycles	5000000
Electrical life	cycles	700000
Safety related data		
Performance level B10d according to EN/ISO 13489-1		
	rated load	cycles 700000
	mechanical load	cycles 5000000
Mirror contacts according to IEC/EN 60947-4-1 annex F		Yes
EMC compatibility		yes
AC coil operating		
Rated AC voltage at 50/60Hz	V	48
AC operating voltage		
of 50/60Hz coil powered at 50Hz		
pick-up		
	min	%Us 80
	max	%Us 110
drop-out		
	min	%Us 20
	max	%Us 60
of 50/60Hz coil powered at 60Hz		
pick-up		
	min	%Us 80
	max	%Us 110
drop-out		
	min	%Us 20
	max	%Us 60
of 60Hz coil powered at 60Hz		
pick-up		
	min	%Us 80
	max	%Us 110
drop-out		
	min	%Us 20
	max	%Us 60
AC average coil consumption at 20°C		
of 50/60Hz coil powered at 50Hz		
	in-rush	VA 400
	holding	VA 18
of 50/60Hz coil powered at 60Hz		
	in-rush	VA 400
	holding	VA 18
Dissipation at holding ≤20°C 50Hz	W	18
DC coil operating		
DC rated control voltage	V	48
DC operating voltage		
pick-up		
	min	%Us 80
	max	%Us 110
drop-out		
	min	%Us 20
	max	%Us 60
Average coil consumption ≤20°C		
	in-rush	W 400
	holding	W 18

Max cycles frequency

Mechanical operation cycles/h 1200

Operating times

Average time for Us control

in AC

Closing NO

min	ms	110
max	ms	180

Opening NO

min	ms	60
max	ms	100

in DC

Closing NO

min	ms	110
max	ms	180

Opening NO

min	ms	60
max	ms	100

UL technical data

Rated operational voltage AC (UL) V 600

General USE

Contactor

AC current	A	1000
------------	---	------

Short-circuit protection fuse, 600V

Standard fault

Short circuit current	kA	18
Fuse rating	A	1500
Fuse class	L	

Ambient conditions

Temperature

Operating temperature

min	°C	-50
max	°C	70

Storage temperature

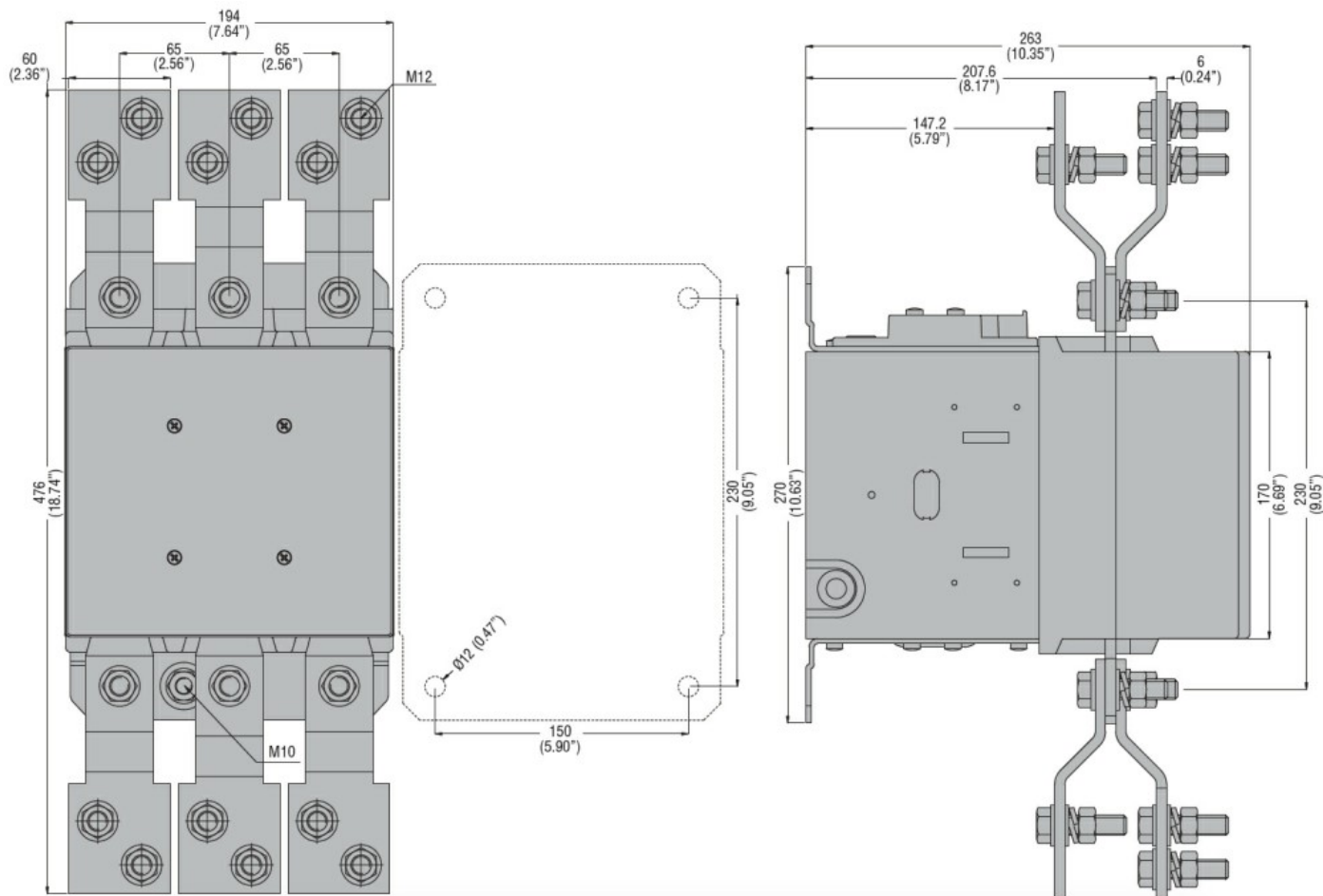
min	°C	-60
max	°C	80

Max altitude	m	3000
--------------	---	------

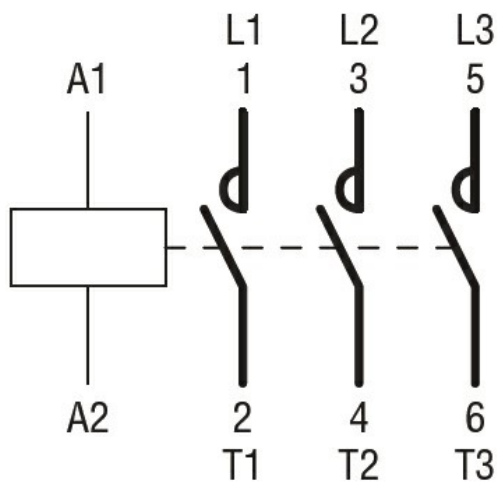
Resistance & Protection

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 60947-1

IEC/EN 60947-4-1

UL 60947-1

UL 60947-4-1

Certificates

CCC

cULus

EAC

ETIM classification

ETIM 8.0

EC000066 -
Power contactor,
AC switching