



Contact characteristics

Number of poles	Nr.	4
Rated insulation voltage U_i IEC/EN	V	1000 (power circuit)
Rated impulse withstand voltage U_{imp}	kV	8
Operational frequency	min max	Hz Hz 25 400
IEC Conventional free air thermal current $I_{th} \leq 40^\circ\text{C}$	A	1600
Operational current I_e	AC-1 ($\leq 40^\circ\text{C}$) AC-1 ($\leq 55^\circ\text{C}$) AC-1 ($\leq 70^\circ\text{C}$)	A A A 1600 1360 1120
Rated operational power AC-1 ($T \leq 40^\circ\text{C}$)	230V 400V 500V 690V	kW kW kW kW 550 950 1200 1650
Short-time allowable current for 10s (IEC/EN60947-1)	A	8300
Protection fuse	gG (IEC)	A 1600
Making capacity (RMS value)	A	6300
Breaking capacity at voltage	440V 500V 690V	A A A 6300 5600 5000
Resistance per pole (average value)	m Ω	7
Power dissipation per pole (average value)	I_{th} W	180
Tightening torque for terminals	min max min max	Nm Nm lbin lbin 35 35 25.8 25.8
Max number of wires simultaneously connectable	Nr.	2
Power terminal protection according to IEC/EN 60529		IP00

Mechanical features

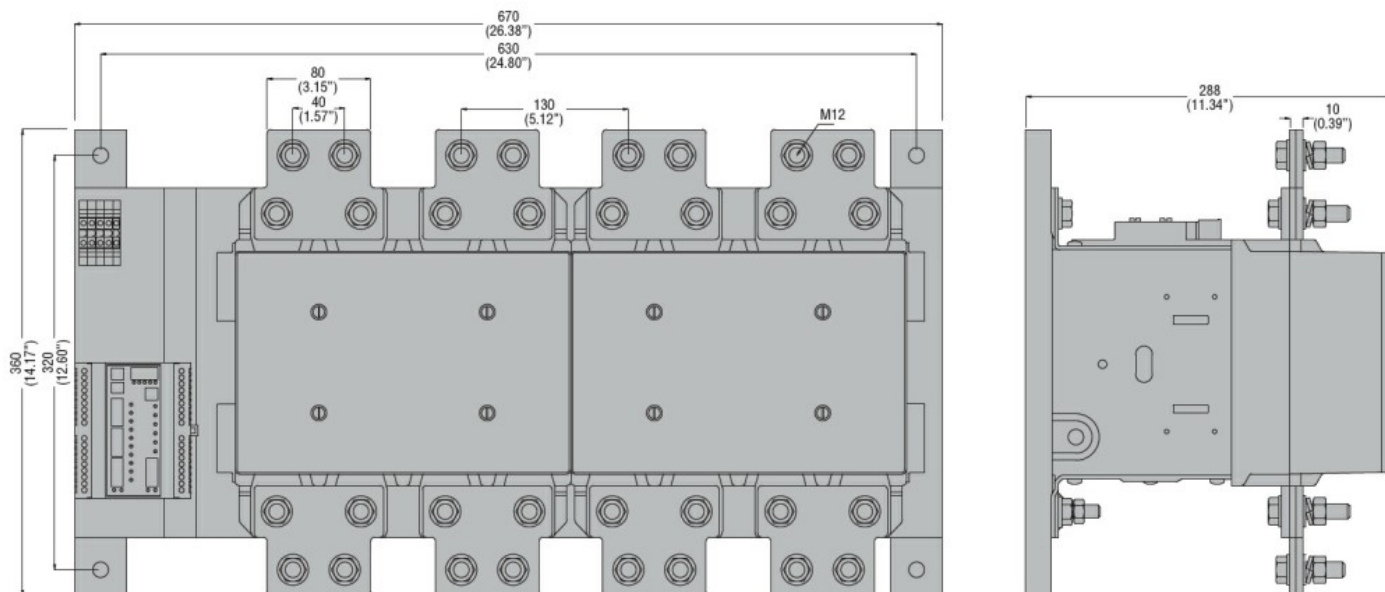
Operating position	normal allowable	Vertical plan $\pm 30^\circ$
Fixing		Screw
Weight	g	5840

Auxiliary contact characteristics

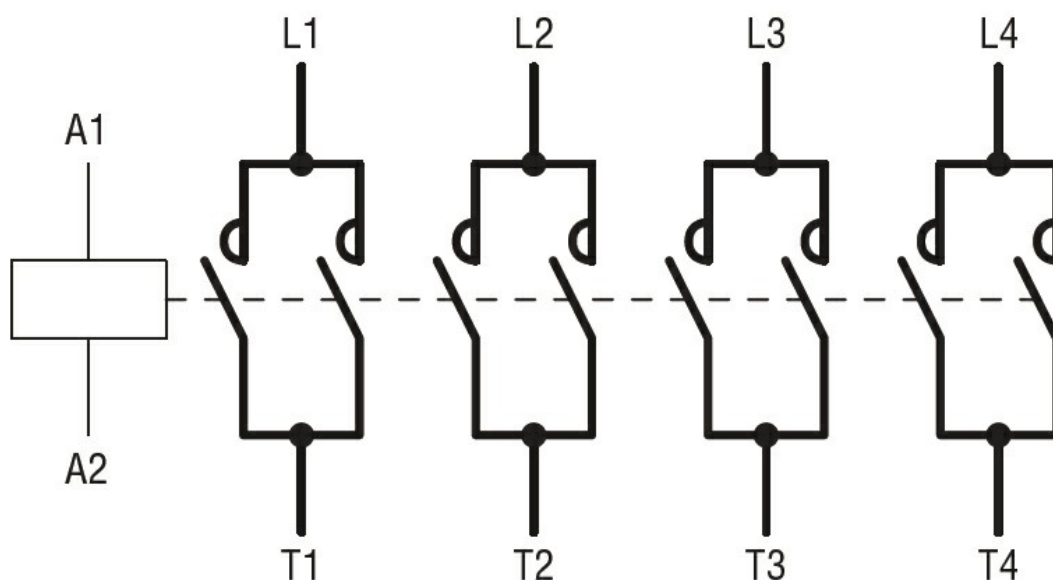
Thermal current I_{th}	A	16
IEC/EN 60947-5-1 designation		A600 - P600

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
	125V	A	0.6
	220V	A	0.2
	600V	A	1.2
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, 60Hz			
	min	V	220
	max	V	240
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	800
	holding	VA	45
of 50/60Hz coil powered at 60Hz			
	in-rush	VA	800

	holding	VA	45
Dissipation at holding ≤20°C 50Hz		W	40
DC coil operating			
DC rated control voltage			
	min	V	220
	max	V	240
max		V	240
DC operating voltage			
pick-up			
	min	%Us	80
Max cycles frequency			
Mechanical operation		cycles/h	1200
Operating times			
Average time for Us control			
in AC			
Closing NO	min	ms	300
	max	ms	450
Opening NO	min	ms	70
	max	ms	130
in DC			
Closing NO	min	ms	300
	max	ms	450
Opening NO	min	ms	70
	max	ms	130
UL technical data			
Rated operational voltage AC (UL)		V	600
Contact rating of auxiliary contacts according to UL			A600 - P600
Ambient conditions			
Temperature			
Operating temperature	min	°C	-50
	max	°C	60
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

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ETIM classification

ETIM 8.0

EC000066 -
Power contactor,
AC switching