

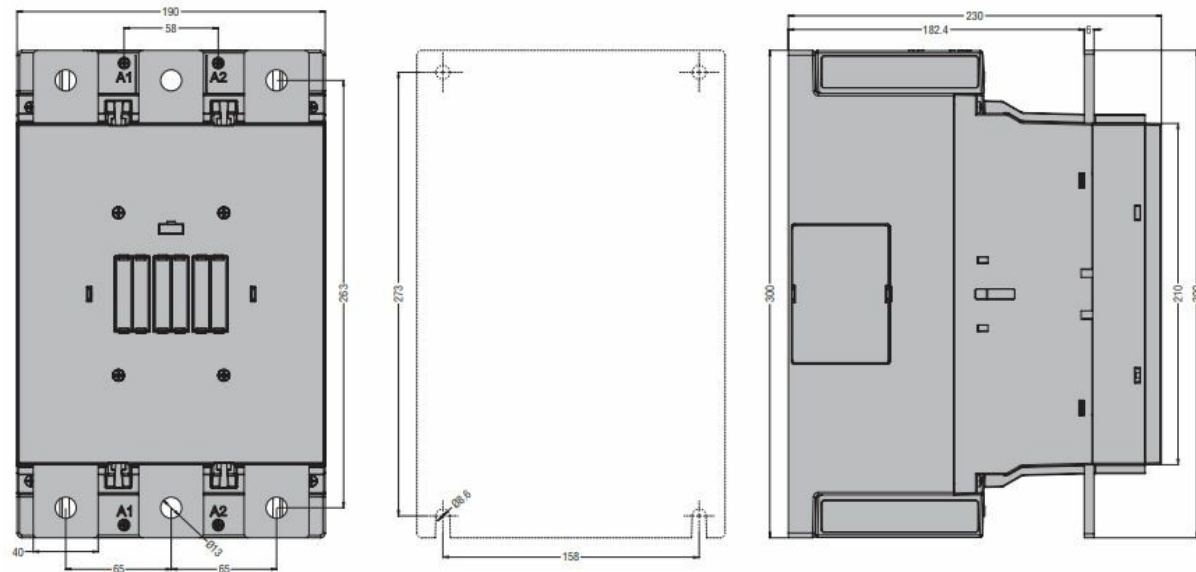


Contact characteristics

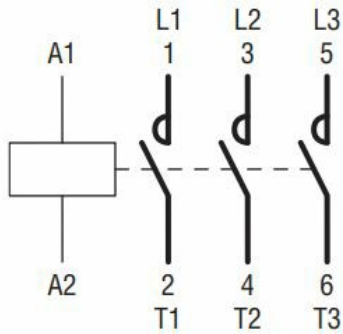
Number of poles	Nr.	3
Rated insulation voltage U_i IEC/EN	V	1000
Rated impulse withstand voltage U_{imp}	kV	8
Operational frequency	min	Hz 25
	max	Hz 400
IEC Conventional free air thermal current $I_{th} \leq 40^\circ\text{C}$	A	630
Operational current I_e	AC-1 ($\leq 40^\circ\text{C}$)	A 600
	AC-1 ($\leq 55^\circ\text{C}$)	A 530
	AC-1 ($\leq 70^\circ\text{C}$)	A 460
	AC-3 ($\leq 440\text{V} \leq 55^\circ\text{C}$)	A 420
	AC-4 (400V)	A 200
Rated operational power AC-3 ($T \leq 55^\circ\text{C}$)	230V	kW 132
	400V	kW 200
	415V	kW 250
	440V	kW 250
	500V	kW 250
	690V	kW 355
	1000V	kW 170
Rated operational current AC-3 ($T \leq 55^\circ\text{C}$)	230V	A 420
	400V	A 420
	415V	A 420
	440V	A 420
	500V	A 344
	690V	A 354
	1000V	A 170
Rated operational power AC-1 ($T \leq 40^\circ\text{C}$)	230V	kW 238
	400V	kW 436
	500V	kW 480
	690V	kW 753
IEC max current I_e in DC1 with $L/R \leq 1\text{ms}$ with 3 poles in series	330V	A 350
IEC max current I_e in DC3-DC5 with $L/R \leq 15\text{ms}$ with 3 poles in series	330V	A 280
IEC max current I_e in DC3-DC5 with $L/R \leq 15\text{ms}$ with 4 poles in series	330V	A 350
	460V	A 280
Short-time allowable current for 10s (IEC/EN60947-1)	A	3360
Protection fuse	gG (IEC)	A 800

	aM (IEC)	A	500
Making capacity (RMS value)		A	4200
Breaking capacity at voltage			
	440V	A	4200
	500V	A	2752
	690V	A	2832
Resistance per pole (average value)		mΩ	0.09
Power dissipation per pole (average value)			
	Ith	W	37
	AC-3	W	18
Tightening torque for terminals			
	min	Nm	55
	max	Nm	55
	min	Ibin	486
	max	Ibin	486
Tightening torque for coil terminal			
	min	Nm	0.8
	max	Nm	1
	min	Ibin	7.1
	max	Ibin	8.8
Power terminal protection according to IEC/EN 60529			IP00
Mechanical features			
Operating position			
	normal allowable		Vertical plan ±30°
Fixing			Screw
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
EMC compatibility			yes
AC coil operating			
AC average coil consumption at 20°C			
of 50/60Hz coil powered at 50Hz			
	in-rush	VA	390
	holding	VA	12
of 50/60Hz coil powered at 60Hz			
	in-rush	VA	390
	holding	VA	12
Dissipation at holding ≤20°C 50Hz		W	4
DC coil operating			
DC rated control voltage			
	min	V	24
	max	V	48
max		V	48
DC operating voltage			
pick-up			
	min	%Us	85 Us min
	max	%Us	110 Us max
drop-out			

		max	%Us	≤70 Us min
Average coil consumption ≤20°C		in-rush	W	390
		holding	W	4
Max cycles frequency		cycles/h 1000		
Mechanical operation				
Operating times				
Average time for Us control				
in AC				
Closing NO		min	ms	95
		max	ms	135
Opening NO		min	ms	40
		max	ms	53
UL technical data				
Rated operational voltage AC (UL)			V	600
Yielded mechanical performance				
for three-phase AC motor		200/208V	HP	150
		220/240V	HP	150
		460/480V	HP	350
		575/600V	HP	450
General USE				
Contactor		AC current	A	630
Short-circuit protection fuse, 600V				
High fault		Short circuit current	kA	100
		Fuse rating	A	800
		Fuse class		L
Standard fault		Short circuit current	kA	30
		Fuse rating	A	1000
		Fuse class		L
Ambient conditions				
Temperature				
Operating temperature		min	°C	-40
		max	°C	70
Storage temperature		min	°C	-50
		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/BS 60947-1

IEC/EN/BS 60947-4-1

UL 60947-1

UL 60947-4-1

Certificates

cULus

ETIM classification

ETIM 8.0

EC000066 -
Power contactor,
AC switching