



Applicable scope

The UNC1 AC Contactors are suitable for controlling various types of motors in the circuit of AC 50/60Hz, voltage up to 1000 V, current up to 800 A.

- Controlling resistance, inductance and capacitive circuits: heating, lighting, power compensation, transformer.
- Controlling distribution circuit, industrial distribution, green distribution. For frequent operations and harsh environment, quick operating coils are recommended to use.

- Conform to IEC/EN 60947-4-1

Operation and installation conditions

Type	Operation and installation conditions
Pollution degree	III
Compliant standards	IEC/EN 60947-4-1
Degree of protection	IP20
Ambient temperature	Operation temperature limits: -40°C~+70°C Normal operation temperature range: -5°C~+40°C. Storage temperature range: -60°C~+80°C.
Humidity	Maximun relative humidity less than 50% below 40°C, Maximun relative humidity less than 90% below 20°C
Altitude	Not exceeding 2000 m above sea level

UNC1 AC contactor

Main circuit parameter			Technical performance
Rated insulation voltage U_i (V)			1000V
Rated impulse withstand voltage U_{imp} (kV)			8kV
Rated operational voltage U_e max (V)			1000V
Rated making capacity			Making current: $10 \times I_e$ (AC-3) or $12 \times I_e$ (AC-4)
Rated breaking capacity			Breaking current: $8 \times I_e$ (AC-3) or $10 \times I_e$ (AC-4)
Rated control voltage (U_c)			24-660V (please specify control voltage when placing orders, default voltage is 220V)
Mechanical life (cycles)			1×10^6
Main contact		115~265	3NO or 4NO
		330~780	2NO、3NO or 4NO
		800	3NO
Control voltage limits(AC) ($\theta \leq 55^\circ\text{C}$)		Pull-in	$0.85-1.1 U_c$
		Release(AC)	$0.2-0.75 U_c$
		Release(DC)	$0.1-0.75 U_c$
Average power 50Hz (VA)	Start	115~150	550
		185~225	810
		265	1200
		330	600
		400	1000
		500	1050
		630	1500
		780	1900
		800	1600
	Hold	115~150	45
		185~225	55
		265	85
		330	10
		400	12
		500	16
		630	20
		780	45
		800	22

UNC1 AC contactor

Contactor model		Conventional thermal current I_{th} (A) ($\theta \leq 40^{\circ}\text{C}$)	Rated operation current I_e (A)		Rated control power AC-3(kW)
			max AC-1 ($\theta \leq 40^{\circ}\text{C}$)	max AC-3 ($\theta \leq 55^{\circ}\text{C}$)	
UNC1-115	220V/240V	200	200	115	30
	380V/400V	200	200	115	55
	415V/440V	200	200	115	59
	500V	200	200	-	75
	660V/690V	200	200	-	80
	1000V	200	200	-	65
UNC1-150	220V/240V	250	250	150	40
	380V/400V	250	250	150	75
	415V/440V	250	250	150	80
	500V	250	250	-	90
	660V/690V	250	250	-	100
	1000V	250	250	-	65
UNC1-185	220V/240V	275	275	185	55
	380V/400V	275	275	185	90
	415V/440V	275	275	185	100
	500V	275	275	-	110
	660V/690V	275	275	-	120
	1000V	275	275	-	100
UNC1-225	220V/240V	315	315	225	63
	380V/400V	315	315	225	100
	415V/440V	315	315	225	110
	500V	315	315	-	129
	660V/690V	315	315	-	129
	1000V	315	315	-	140
UNC1-265	220V/240V	350	350	265	75
	380V/400V	350	350	265	132
	415V/440V	350	350	265	140
	500V	350	350	-	160
	660V/690V	350	350	-	180
	1000V	350	350	-	147

UNC1 AC contactor

Contactor model		Conventional thermal current I_{th} (A) ($\theta \leq 40^{\circ}\text{C}$)	Rated operation current I_e (A)		Rated control power AC-3(kW)
			max AC-1 ($\theta \leq 40^{\circ}\text{C}$)	max AC-3 ($\theta \leq 55^{\circ}\text{C}$)	
UNC1-330	220V/240V	400	400	330	100
	380V/400V	400	400	330	160
	415V/440V	400	400	330	180
	500V	400	400	-	200
	660V/690V	400	400	-	220
	1000V	400	400	-	160
UNC1-400	220V/240V	500	500	400	129
	380V/400V	500	500	400	200
	415V/440V	500	500	400	220
	500V	500	500	-	257
	660V/690V	500	500	-	280
	1000V	500	500	-	185
UNC1-500	220V/240V	700	700	500	147
	380V/400V	700	700	500	250
	415V/440V	700	700	500	280
	500V	700	700	-	335
	660V/690V	700	700	-	355
	1000V	700	700	-	335
UNC1-630	220V/240V	900	800	630	200
	380V/400V	900	800	630	335
	415V/440V	900	800	630	275
	500V	900	800	-	400
	660V/690V	900	800	-	450
	1000V	900	800	-	450
UNC1-780	220V/240V	1000	1000	780	220
	380V/400V	1000	1000	780	400
	415V/440V	1000	1000	265	425
	500V	1000	1000	-	450
	660V/690V	1000	1000	-	475
	1000V	1000	1000	-	450

UNC1 AC contactor

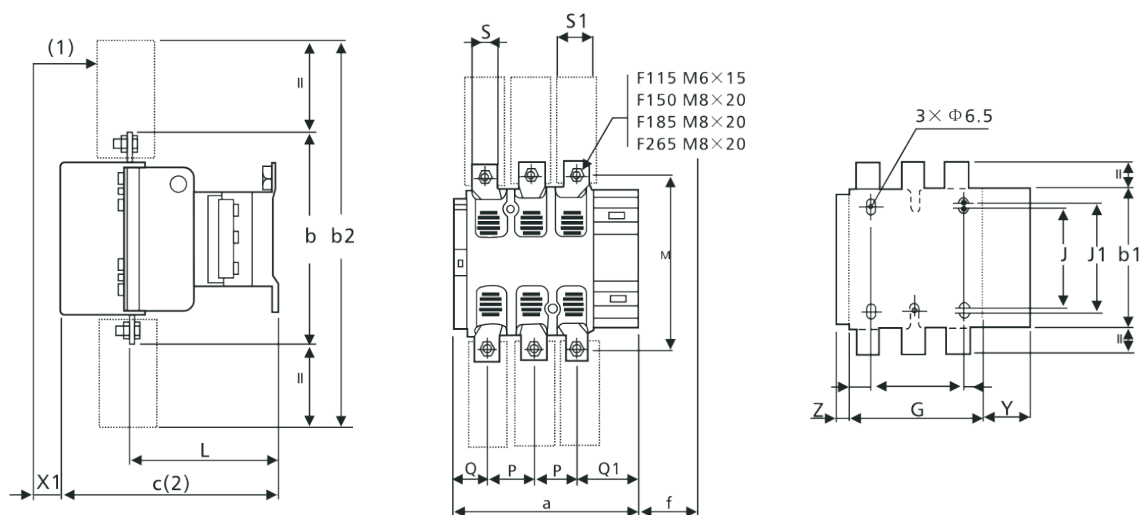
Contactor model		Conventional thermal current I_{th} (A) ($\theta \leq 40^{\circ}\text{C}$)	Rated operation current I_e (A)		Rated control power AC-3(kW)
			max AC-1 ($\theta \leq 40^{\circ}\text{C}$)	max AC-3 ($\theta \leq 55^{\circ}\text{C}$)	
UNC1-800	220V/240V	1000	1000	800	220
	380V/400V	1000	1000	800	400
	415V/440V	1000	1000	800	425
	500V	1000	1000	-	450
	660V/690V	1000	1000	-	475
	1000V	1000	1000	-	450

Contactor wiring

Contactor wiring		115	150/185	225	265	330	400	500	630	780	800
Cabling ($\theta \leq 55^{\circ}\text{C}$)	The maximum cross-sectional area number of cable (mm ²)	2	2	2	2	2	2	2	2	2	2
	dimension of cables	20×3	25×3	32×3	32×4	30×5	30×5	40×5	60×5	100×5	60×5
	Cable with tabs(mm ²)	95	120/150	185	240	240	2×150	2×240	-	-	-
	Cable with connectors (mm ²)	95	120/150	185	240	-	-	-	-	-	-
	Bolt diameter(mm)	Φ6	Φ8	Φ10	Φ10	Φ10	Φ10	Φ10	Φ12	Φ12	Φ12
Cable circuit connection	Tightening torque (N·m)	10	18	35	35	35	35	35	58	58	58

UNC1 AC contactor

Dimensions (mm)



Current		115	150	185	225	265	330	400	500	630	780	800
Item	A	163.5	163.5	168.5	168.5	201.5	213	213	233	309	704	309
	B	162	170	174	197	203	206	206	238	304	435	304
	C	171	171	181	181	213	219	219	232	255	255	255
	F	131	131	130	130	147	147	151	169	201	201	201
	G	106	106	111	111	140	154.5	170 (156-192)	170 (156-192)	180 (100-195)	180 (100-195)	240
	J	120-106	120-106	120-106	120-106	120-106	120-106	180	180	180	180	180
	L	107	107	113.5	113.5	141	145	145	146	155	165	155
	M	147	150	154	172	178	181	181	208	264	400	264
	P	37	40	40	48	48	48	48	55	80	160	80
	Q	29.5	26	29	21	39	43	69	76	60	192	60
	S	20	20	20	25	25	25	25	30	40	60	40