

UEC1-115F...800F AC Contactors



INTRODUCTION



Sunban Industrial Park

Hongfa, (Shanghai Stock Exchange: 600885), founded in 1984, has been adhering to the enterprise spirit of “persevere for progress, strive for excellence”, and has built a complete industry system with complete categories and supporting facilities. At present, Hongfa has more than 30 subsidiaries and has established three districts of R & D and production bases. Its products cover various categories, such as medium and low voltage products, relays, high and low voltage switchgear, capacitors, precision parts and automation equipment.

Xiamen Hongfa Electrical Safety & Controls Co., Ltd. is a wholly-owned subsidiary of Hongfa, which specializes in R & D, design and manufacture medium and low voltage products. Its distribution apparatus, terminal apparatus, control apparatus and other products are widely used in real estate, electric power, new energy, industry, HVAC, transportation, information and other fields.

In the United States, Europe, Southeast Asia and other regions, Hongfa has established localized marketing and service networks with global market operation and technical service. Relying on professional and rigorous technical support, fast response and all-round service, safe and reliable product quality and high cost performance, Hongfa has reached business cooperation relationship with many global top 500 enterprises and other well-known enterprises, such as Enel, GE, Honeywell, Carrier, Trane, Johnson Controls, Danfoss, State Grid, China Southern Power Grid, CRRC, China Mobile, China Unicom, etc.



Donglin Industrial Park



Haicang Industrial Park



Zhongjiang Industrial Park



Zhangzhou Industrial Park



Zhoushan Industrial Park



Xi'an Factory

In terms of technology R & D and manufacturing, taking the national enterprise technology center as the platform, Hongfa has set up postdoctoral research workstation, academician and expert workstation. Now it has developed into a leading scientific research and production base in the industry. From product development, mold manufacturing, parts manufacturing, automated product assembly and online testing, Hongfa has successfully built an integrated whole industry chain of medium and low voltage products. In terms of product testing, Hongfa testing center has passed the certification of VDE, UL, CNAS and other international organizations, and has complete testing and analysis equipment for low-voltage products, such as 50kA ultimate short circuit test, 8kA electrical life test, 80kA characteristic test, mechanical simulation and testing system, electro-magnetic simulation and testing system.

Hongfa always adheres to the policy of "focused on the market, winning through quality", and has a completed quality assurance system. Its products have passed UL / CUL, VDE, CQC, CCC and other international safety certification. In the process of quality management, Hongfa actively implements the advanced quality concept, constantly improves the quality management system, continuously promotes the product process quality control and testing, strengthens the supply chain management, and is committed to providing each customer with high-quality products and creating greater value.

Advanced technology and strict quality control have created Hongfa's brand strength. Hongfa is willing to work hand in hand with global customers to share the convenience and well-being brought by science and technology.

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UEC1-115F...800F AC Contactors

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NOTE:

The contents and data in this catalogue are not binding. We reserve the right to modify the contents of this document on the basis of technical development of the products, without prior notice. The real order requirements and technical agreements shall prevail.

Product Overview

The UEC1-115F...800F AC contactors range to a rated current of 115A...800A under the utilization category AC-3 and can be driven by both 50 Hz and 60 Hz. They can be used to control AC motors.

Structure Feature

- The contact system is direct-acting type with double breaking points. Aluminum alloy for the bottom base and thermal plastic sealed pack for the coil. The coil is integrated with the yoke, and they can be installed into or taken out of the contactor directly, convenient for use and maintenance.
- Short flashover distance, within 10mm for contactor 115A...265A. Small space occupation in switchgears.
- Maximum 4 add-on NO/NC auxiliary contacts available.
- Three-pole and four-pole are available.




Product Appearance



Typical Applications

Machinery, manufacturing control, elevator, metallurgy, chemical industry, power management, air conditioning compressor, water pump, conveyor belt, lighting control, heater, and electric vehicles.

Approval Certificate

	CCC	GB/T 14048.4
	CE	EN 60947-4-1
	UKCA	BS EN 60947-4-1

Ordering Information

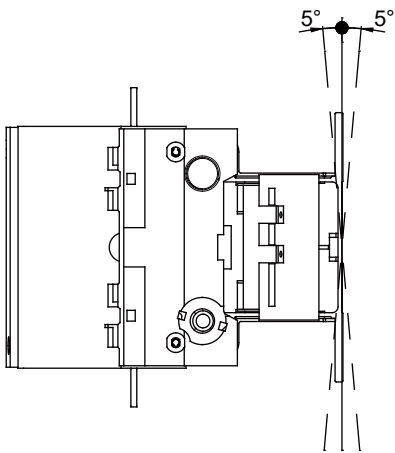
UEC1 Contactors

	UEC	1	-	330	F	4	M7
Contactor series							
Design series number							
Rated operational current at rated operational voltage 400V under AC-3 category							
115: 115A	265: 265A	630: 630A					
150: 150A	330: 330A	800: 800A					
185: 185A	400: 400A						
225: 225A	500: 500A						
Product structure							
F: F type							
Number of main poles							
Blank: Three poles							
4: Four poles							
* 4 only for 115A, 150A, 330A, 630A							
Coil control voltage							
1) AC supply - 50/60Hz							
Voltage(V)	24	36	48	110	220-230	380-400	
Code	B7	CC7	E7	F7	M7	Q7	
* B7 only for the contactor 115...330A,							
* CC7 only for the contactor 115...500A,							
* E7 only for the contactor 115...225A							
2) DC supply							
Voltage(V)	24	48	110	220			
Code	BD	ED	FD	MD			
* BD only for the contactor 115...225A							







CA1R Auxiliary Contact Blocks

	CA	1	R	22
Auxiliary contact block				
Design series number				
Mounting type				
R: Top mounting				
Number of auxiliary NO contacts/NC contacts				
1) 2P:				
11: 1NO+1NC	20: 2NO	02: 2NC		
2) 4P:				
22: 2NO+2NC	40: 4NO	31: 3NO+1NC	13: 1NO+3NC	04: 4NC

Technical Data

Parameters		Model	UEC1-115F UEC1-150F	UEC1-185F UEC1-225F	UEC1-265F UEC1-330F	UEC1-400F	UEC1-500F	UEC1-630F UEC1-800F
Operating environment								
Rated insulation voltage U_i		V	1000					
Rated impulse withstand voltage U_{imp}		kV	8					
Conforming to standard			GB/T 14048.4, IEC 60947-4-1, EN 60947-4-1, BS EN 60947-4-1					
Certifications			CCC, CE, UKCA					
Degree of protection			Terminals without protection, IP00					
Ambient air temperature	Storage	°C	-60...+80					
	Operation	°C	-5...+40 (+40...+70, for operation at $1.0U_s$... $1.1U_s$)					
Max. operating altitude without derating		m	3000					
Pollution degree			3					
Mounting category			III					
Mounting type			Screw					
Flame resistance			Current-carrying part: 850°C					
Operating position			Vertical installation ($\pm 5^\circ$)					
								

Technical Data





														
Model				UEC1-115F	UEC1-150F	UEC1-185F	UEC1-225F	UEC1-265F	UEC1-330F	UEC1-400F	UEC1-500F	UEC1-630F	UEC1-800F	
Parameters				Power circuit										
Main circuit poles				3P/4P	3P/4P	3P	3P	3P	3P/4P	3P	3P	3P/4P	3P	
AC-3	I _e	400V/≤40°C	A	115	150	185	225	265	330	400	500	630	800	
	Rated operational power	220V 240V	kW	30	40	55	63	75	100	110	147	200	250	
		380V 400V	kW	55	75	90	110	132	160	200	250	335	450	
		415V	kW	59	80	100	110	140	180	220	280	375	450	
		440V	kW	59	80	100	110	140	200	250	295	400	450	
		500V	kW	75	90	110	129	160	200	257	335	400	450	
		660V 690V	kW	80	100	110	129	160	220	280	335	450	475	
AC-1	I _e	690V/≤40°C	A	200	250	275	315	350	400	500	630	800	800	
		690V/≤50°C	A	182	227	250	286	318	364	455	573	727	727	
		690V /≤60°C	A	164	205	225	258	286	327	409	515	655	655	
		690V /≤70°C	A	145	182	200	229	255	291	364	458	582	582	
Conventional thermal current I _{th} ≤40°C		A	200	250	275	315	350	400	500	630	800	800		
Max. electrical operating frequency AC-3/400V		cycles/h	600	600	600	600	600	600	300	300	300	300		
Mechanical durability		10 ⁶ cycles	3	3	3	3	3	3	1	1	1	1		
Max. mechanical operating frequency		cycles/h	1200	1200	1200	1200	1000	1000	1000	1000	600	600		
Auxiliary contact blocks ⁽¹⁾				CA1R		CA1R		CA1R		CA1R		CA1R		
Outline dimension W×H×D			mm	163.5×170×171 (3P) 200.5×170×171 (4P)		168.5×174×181 (185F) 168.5×197×181 (225F)		201.5×203×213 (265F) 213×206×219 (330F 3P) 261×206×219 (330F 4P)		213×209×219 (400F) 233×238×232 (500F)		309×304×255 (630F 3P) 389×304×255 (630F 4P) 309×304×255 (800F)		
Net weight				kg	3.6 (3P) 4.3 (4P)	3.7(3P) 4.5(4P)	4.6	4.7	7.1	8.5(3P) 10 (4P)	8.5	10.8	17.4 (3P) 20.5 (4P)	19

Note: ⁽¹⁾ Fitted with only one block, and the max. total number of add-on NO and NC auxiliary contact is 4.

Technical Data

Parameters		Model	UEC1-115F UEC1-150F	UEC1-185F UEC1-225F	UEC1-265F UEC1-330F	UEC1-400F	UEC1-500F	UEC1-630F UEC1-800F
		Coil control circuit, AC supply						
Rated control voltage U _s 50Hz/60Hz		V	24...400		24...400 (48 excpt)	36...400 (24,48 excpt)		220...400
Control voltage range	Operating voltage		0.85U _s ...1.1U _s					
	Drop-out voltage		0.2U _s ...0.75U _s					
Max.power consumption at 25°C (for reference)	Inrush	VA	690...855	950...1180	600...700	1000...1150	1000...1150	1500...1730
	Sealed	VA	6.6...8.1	8.9...10.9	8...12	12...18	16...22	20...25
Operating time Between coil energization and main NO contact closing (ms)			23...35	20...35	40...65	40...75	40...75	40...80
Drop-out time Between coil de-energization and main NO contact opening (ms)			≤130	≤130	100...170	100...170	100...170	100...200
Coil control circuit, DC supply								
Rated control voltage U _s			24...220Vd.c			48...220Vd.c		
Control voltage range	Operating voltage		0.85U _s ...1.1U _s					
	Drop-out voltage		0.1U _s ...0.75U _s					
Max.power consumption at 25°C (for reference)	Inrush	VA	543...834	737...902	655...973	920...1140	990...1220	1420...1920
	Sealed	VA	3.9...4.9	4.1...5.1	3.6...5.3	4...7.5	4.5...8	6.5...12.5
Operating time Between coil energization and main NO contact closing (ms)			30...40	30...40	40...50	50...65	50...65	60...70
Drop-out time Between coil de-energization and main NO contact opening (ms)			30...50	30...50	40...65	45...65	45...65	40...50

Technical Data

Parameters		Model	UEC1-115F	UEC1-150F	UEC1-185F	UEC1-225F	UEC1-265F	UEC1-330F	UEC1-400F	UEC1-500F	UEC1-630F	UEC1-800F
Power circuit connection												
Busbar and cable for terminal	Number of busbars		2	2	2	2	2	2	2	2	2	2
	Dimension of busbar	mm ²	16×3	20×3	25×3	32×3	32×4	30×5	30×5	40×5	60×5	60×5
	Cable with lug	mm ²	95	120	150	185	240	240	2×150	2×240	-	-
	Cable with connector	mm ²	95	120	150	185	240	-	-	-	-	-
	Screw diameter		M6	M8	M8	M10	M10	M10	M10	M10	M12	M12
Tightening torque		Nm	10	18	18	35	35	35	35	35	58	58
Coil circuit connection												
 Solid cable without cable end	1 conductor	mm ²	1...4									
	2 conductors	mm ²	1...4									
 Flexible cable without cable end	1 conductor	mm ²	1...2.5									
	2 conductors	mm ²	1...2.5									
 Flexible cable with cable end	1 conductor	mm ²	1...2.5									
	2 conductors	mm ²	1...2.5									
 Lugs	L ≤	mm	8.1									
	L >	mm	3.7									
Screwdriver	Phillips screwdriver		N° 2									
	Φ Slotted screwdriver		Φ6									
Tightening torque		Nm	1.2									

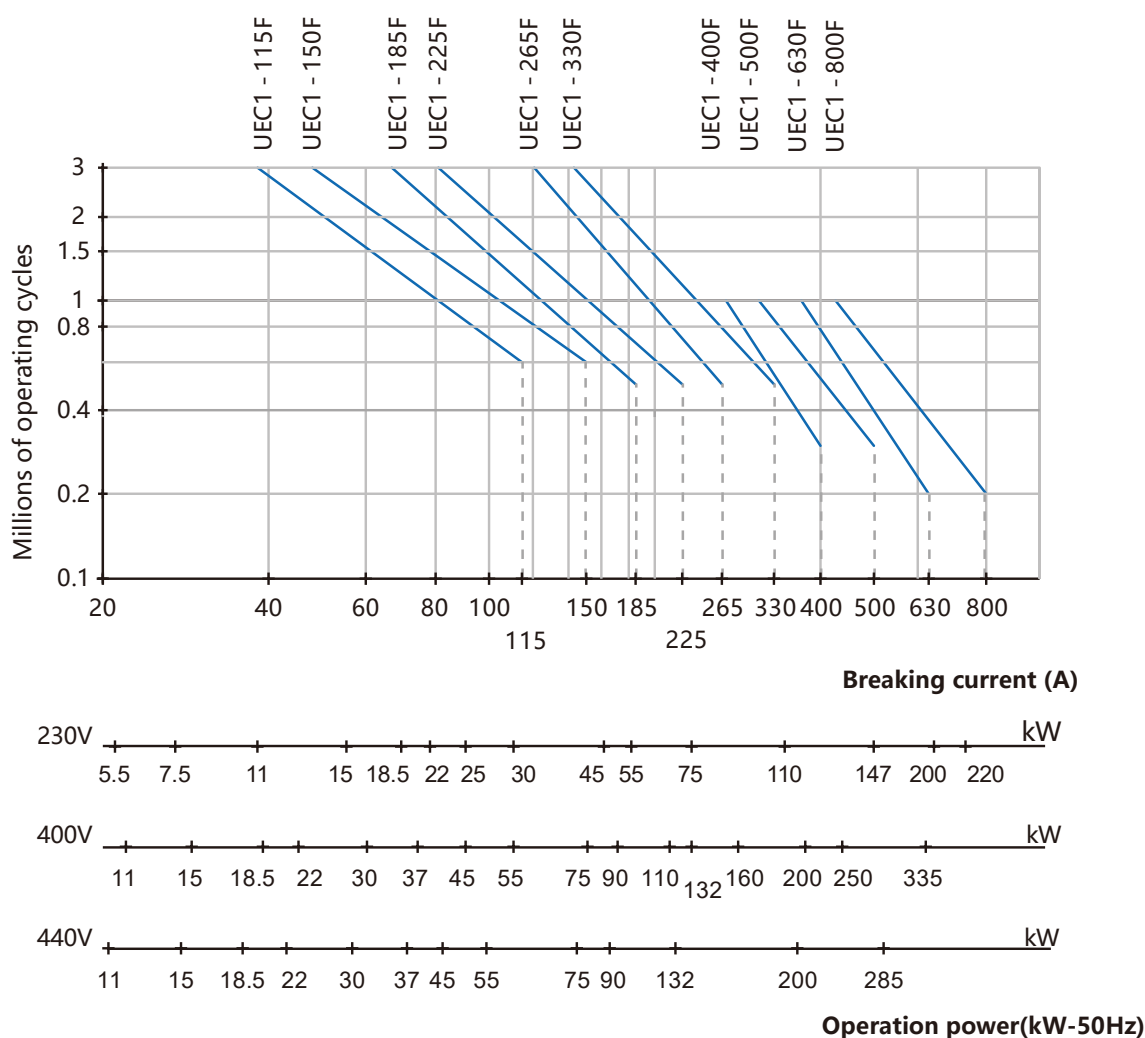
Note: All conductors above are maximum capacity.

Technical Data

Electrical Durability

Selection table according to durability

The breaking current (I_c) of AC-3 utilization catalogue is equal to the rated operational current of motor. The characteristic curve in the figure below shows the durability of the main contact when the contactor is used for making and breaking three-phase (AC-3 $U_e \leq 440V$) inductive load.



Example:

Asynchronous motor: $P = 132 \text{ kW}$, $U_e = 380 \text{ V}$, $I_e = 245 \text{ A}$, $I_c = I_e = 245 \text{ A}$

Or asynchronous motor: $P = 132 \text{ kW}$, $U_e = 415 \text{ V}$, $I_e = 240 \text{ A}$, $I_c = I_e = 240 \text{ A}$

Need electrical durability of 1 million cycles.

Above selective curve shows that the contactor part number is UEC1-330F.

Auxiliary contact blocks



AC Contactor
UEC1-115F...800F





Top mounting auxiliary contact block
CA1R(4 poles)



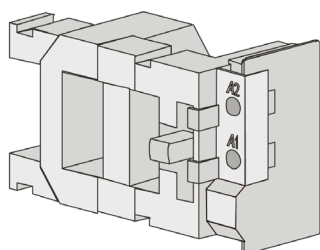
Top mounting auxiliary contact block
CA1R(2 poles)



Accessories

Parameters		Model	CA1R						
Standards			GB/T 14048.5, IEC 60947-5-1, BS EN 60947-5-1, EN 60947-5-1(VDE 0660 Teil 200), UL 60947-5-1						
Certifications			CCC, CB, CE, UKCA ,VDE, UL(cULus LISTED)						
Degree of protection			IP20						
Ambient air temperature	Storage	°C	-60...+80						
	Operation	°C	-40...+70						
Max. operating altitude without derating		m	3000						
Solid cable without cable end 	1 conductor	mm ²	1...4						
	2 conductors	mm ²	1...4						
Flexible cable without cable end 	1 conductor	mm ²	1...4						
	2 conductors	mm ²	1...4						
Flexible cable with cable end 	1 conductor	mm ²	1...4						
	2 conductors	mm ²	1...2.5						
Lugs 	L ≤	mm	8.1						
	L >	mm	3.7						
Connection capacity acc. to UL/CSA	1 conductor	AWG	18...10						
	2 conductors	AWG	18...10						
Screwdriver	Phillips screwdriver		N°2						
	Φ Slotted screwdriver		Φ6						
Tightening torque		Nm	1.2						
		lb.in	11						
Max. rated operating voltage U _e		V	690						
Max. insulation voltage U _i		V	690						
Min. switching capacity	U _{min}	V	24						
	I _{min}	A	0.1						
A600 AC-15	Conventional enclosed thermal current I _{the}	A	10						
	Rated operational voltage U _e	V	120	240	380	480	500	600	
	Rated operational current	A	6	3	1.9	1.5	1.4	1.2	
	Make apparent power VA rating	VA	7200						
	Break apparent power VA rating	VA	720						
Q600 DC-13	Conventional enclosed thermal current I _{the}	A	2.5						
	Rated operational voltage U _e	V	125	250	-	400	500	600	
	Rated operational current	A	0.55	0.27	-	0.15	0.13	0.1	
	Make apparent power VA rating	VA	69						
	Break apparent power VA rating	VA	69						
For use on contactors			UEC1-115F...800F						

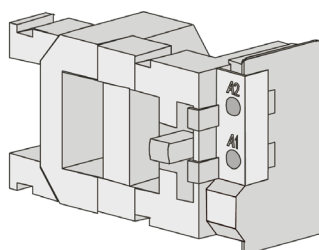
Coils



For contactors	Uc (V) (50-60Hz)	Reference	Net weight (kg)
UEC1-115F UEC1-150F	24	LX9FF024	0.440
	36	LX9FF036	0.440
	48	LX9FF048	0.440
	110	LX9FF110	0.440
	220-230	LX9FF220	0.440
	380-400	LX9FF380	0.440
UEC1-185F UEC1-225F	24	LX9FG024	0.500
	36	LX9FG036	0.500
	48	LX9FG048	0.500
	110	LX9FG110	0.500
	220-230	LX9FG220	0.500
	380-400	LX9FG380	0.500
UEC1-265F UEC1-330F	24	LX1FH0242	0.730
	36	LX1FH0362	0.730
	110	LX1FH1102	0.730
	220-230	LX1FH2202	0.730
	380-400	LX1FH3802	0.730
UEC1-400F	36	LX1FJ036	0.960
	110	LX1FJ110	0.960
	220-230	LX1FJ220	0.960
	380-400	LX1FJ380	0.960
UEC1-500F	36	LX1FK036	1.10
	110	LX1FK110	1.10
	220-230	LX1FK220	1.10
	380-400	LX1FK380	1.10
UEC1-630F UEC1-800F	110	LX1FL110	1.30
	220-230	LX1FL220	1.30
	380-400	LX1FL380	1.30

Accessories

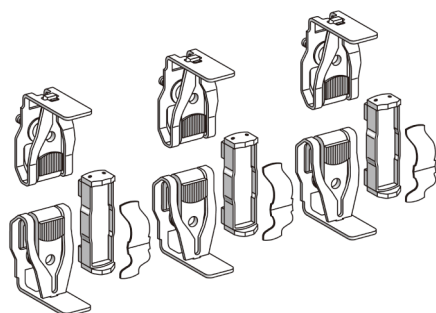
Coils



For contactors	Uc (V) DC	Reference	Net weight (kg)
UEC1-115F UEC1-150F	24	LX4FF024	0.440
	48	LX4FF048	0.440
	110	LX4FF110	0.440
	220	LX4FF220	0.440
UEC1-185F UEC1-225F	24	LX4FG024	0.500
	48	LX4FG048	0.500
	110	LX4FG110	0.500
	220	LX4FG220	0.500
UEC1-265F UEC1-330F	48	LX4FH048	0.730
	110	LX4FH110	0.730
	220	LX4FH220	0.730
UEC1-400F	48	LX4FJ048	1.00
	110	LX4FJ110	1.00
	220	LX4FJ220	1.00
UEC1-500F	48	LX4FK048	1.10
	110	LX4FK110	1.10
	220	LX4FK220	1.10
UEC1-630F UEC1-800F	48	LX4FL048	1.20
	110	LX4FL110	1.20
	220	LX4FL220	1.20

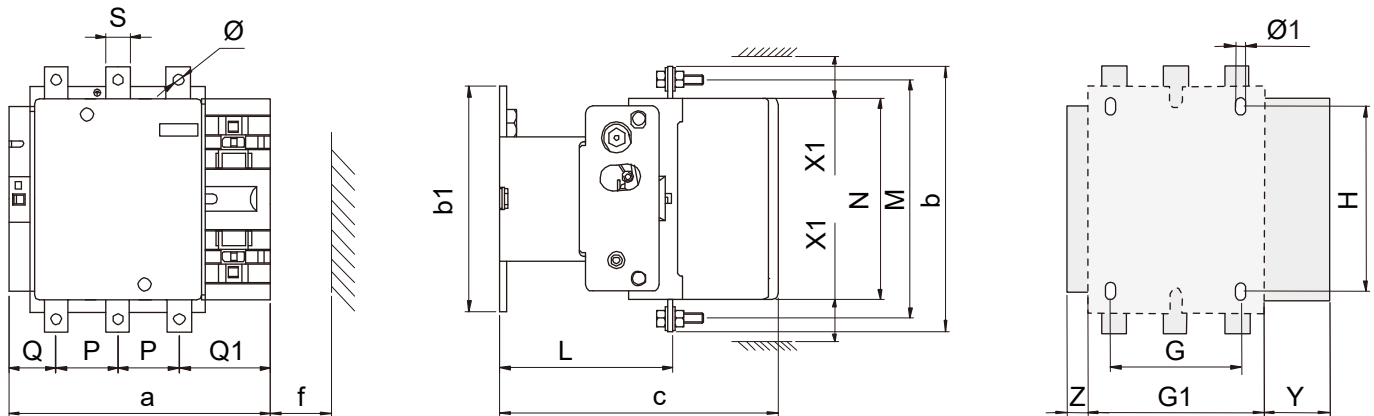
Sets of contacts

3 moving contacts , 6 fixed contacts, 3 back-plate, 6 deflectors, clamping screws and washers.



For contactors	Reference	Net weight (kg)
UEC1-115F, UEC1-150F	C1F115803	0.287
UEC1-185F, UEC1-225F	C1F185803	0.347
UEC1-265F	C1F265803	0.540
UEC1-330F, UEC1-400F	C1F400803	0.940
UEC1-500F	C1F500803	1.43
UEC1-630F	C1F630803	2.55
UEC1-800F	C1F800803	2.55

Dimensions



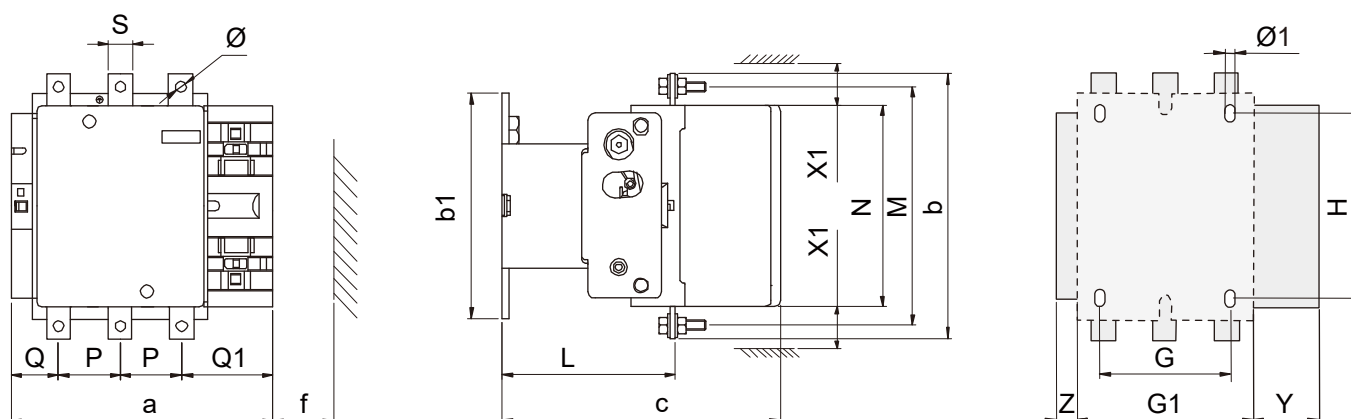
Unit: mm

	UEC1-115F	UEC1-115F4	UEC1-150F	UEC1-150F4
a	163.5	200.5	163.5	200.5
P	37	37	40	40
Q	29.5	29.5	26	25
Q1	60	60	57.5	55.5
S	15	15	20	20
Φ	M6	M6	M8	M8
f	131	131	131	131
b	162	162	170	170
b1	137	137	137	137
M	147	147	150	150
N	124	124	124	124
c	171	171	171	171
L	107	107	107	113.5
G	80	80	80	80
H	120...106	120...106	120...106	120...106
$\Phi1$	6.5	6.5	6.5	6.5
G1	106	143	106	143
Z	13.5	13.5	13.5	13.5
Y	44	44	44	44
X1	10 ($U_e \leq 500V$), 15 ($U_e > 500V$)			

Note:

f: Minimum distance required for coil removal.

X1: Minimum electrical clearance according to operational voltage and breaking capacity.



Unit: mm

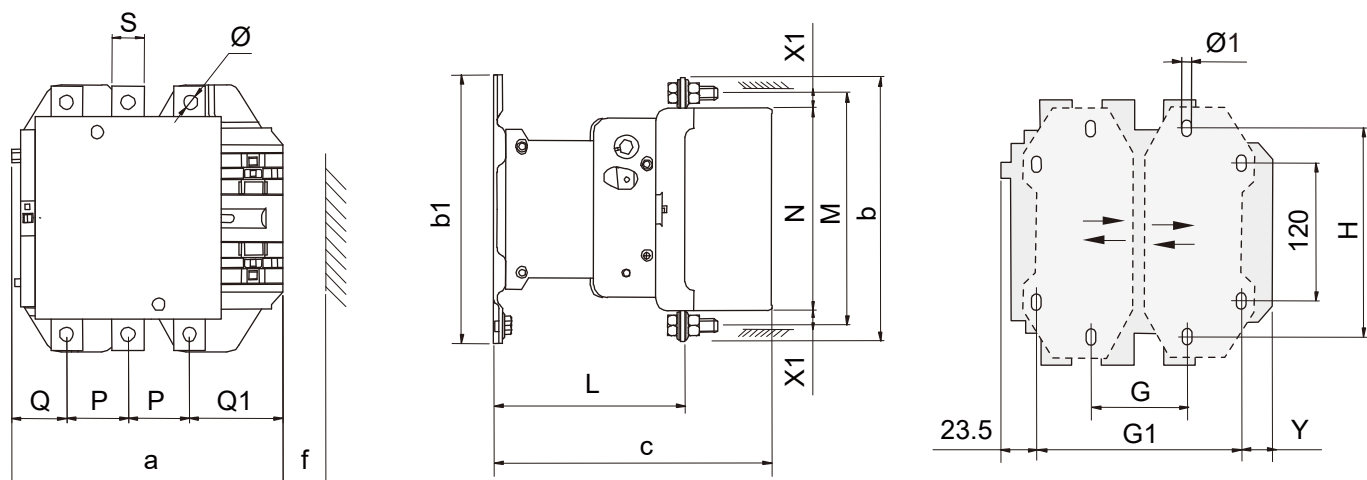
	UEC1-185F	UEC1-225F	UEC1-265F	UEC1-330F	UEC1-330F4
a	168.5	168.5	201.5	213	261
P	40	48	48	48	48
Q	29	21	39	43	43
Q1	59.5	51.5	66.5	74	74
S	20	25	25	25	25
Ø	M8	M10	M10	M10	M10
f	130	130	147	147	147
b	174	197	203	206	206
b1	137	137	145	145	145
M	154	172	178	181	181
N	127	127	147	158	158
c	181	181	213	219	219
L	113.5	113.5	141	145	145
G	80	80	96	96	96
H	120...106	120...106	120...106	120...106	120...106
Ø1	6.5	6.5	6.5	6.5	6.5
G1	111	111	140	154.5	202.5
Z	13.5	13.5	20.5	20.5	20.5
Y	44	44	38	38	38
X1	10 (U _e ≤500V), 15 (U _e >500V)				

Note:

f: Minimum distance required for coil removal.

X1: Minimum electrical clearance according to operational voltage and breaking capacity.

Dimensions



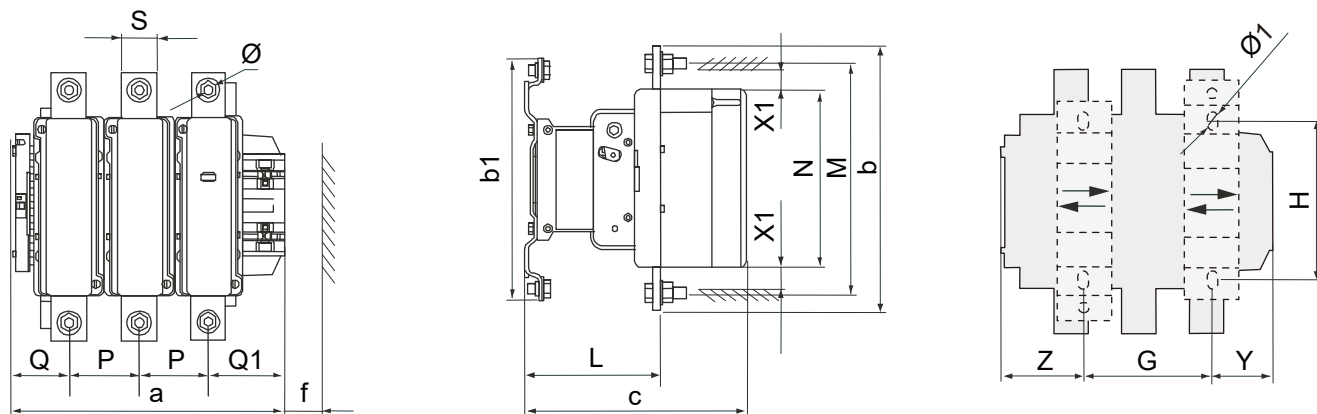
Unit: mm

	UEC1-400F	UEC1-500F
a	213	233
P	48	55
Q	43	46
Q1	74	77
S	25	30
Ø	M10	M10
f	151	169
b	206	238
b1	209	209
M	181	208
N	158	172
c	219	232
L	145	146
G	80(66...102)	80(66...102)
G1	170(156...192)	170(156...192)
Ø1	8.5	8.5
H	180	180
Y	19.5	39.5
X1	15 (U _e ≤500V), 20 (U _e >500V)	

Note:

f: Minimum distance required for coil removal.

X1: Minimum electrical clearance according to operational voltage and breaking capacity.



Unit: mm

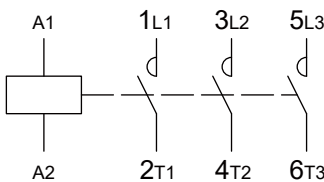
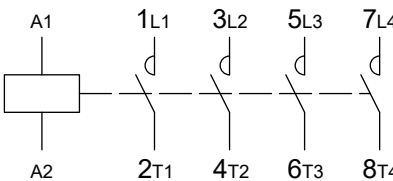
	UEC1-630F	UEC1-630F4	UEC1-800F
a	309	389	309
P	80	80	80
Q	60	60	60
Q1	89	89	89
S	40	40	40
Ø	M12	M12	M12
f	201	201	201
b	304	304	304
b1	280	280	280
M	264	264	264
N	202	202	202
c	255	255	255
L	155	155	155
G	180 (100...195)	240 (150...275)	180 (100...195)
H	180	180	180
Ø1	10.5	10.5	10.5
Z	60.6	60.6	60.6
Y	68.5	68.5	68.5
X1	20 (U _e ≤500V), 30 (U _e >500V)		

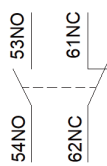
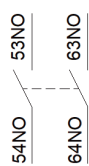
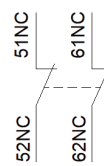
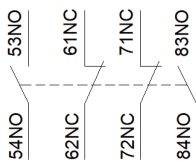
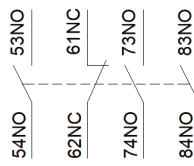
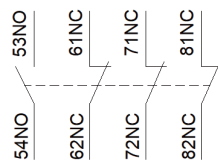
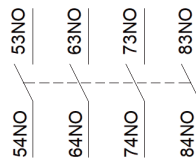
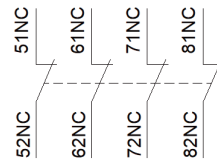
Note:

f: Minimum distance required for coil removal.

X1: Minimum electrical clearance according to operational voltage and breaking capacity.


Circuit Diagram

AC contactors	
UEC1-115F UEC1-150F UEC1-185F UEC1-225F UEC1-265F UEC1-330F UEC1-400F UEC1-500F UEC1-630F UEC1-800F	
UEC1-115F4 UEC1-150F4 UEC1-330F4 UEC1-630F4	

CA1R top mounting auxiliary contact block		
1NO1NC	2NO	2NC
		
2NO2NC	3NO1NC	1NO3NC
		
4NO	4NC	
		

Reference Selection Table

UEC1-115F...800F AC Contactors





Standard power ratings of 3-phase motors 50Hz/60Hz in category AC-3 ($\theta \leq 60^\circ\text{C}$)		Rated operational current AC-3	Number of poles	Reference			Net weight(1 pc)
220V 240V	380V 400V	400V		Type	Coil control voltage		Kg
kW	kW	A			50/60Hz	DC	
30	55	115	3	UEC1-115F...	M7	MD	3.6
30	55	115	4	UEC1-115F4...	M7	MD	4.3
40	75	150	3	UEC1-150F...	M7	MD	3.7
40	75	150	4	UEC1-150F4...	M7	MD	4.5
55	90	185	3	UEC1-185F...	M7	MD	4.6
63	110	225	3	UEC1-225F...	M7	MD	4.7
75	132	265	3	UEC1-265F...	M7	MD	7.1
100	160	330	3	UEC1-330F...	M7	MD	8.5
100	160	330	4	UEC1-330F4...	M7	MD	10.0
110	200	400	3	UEC1-400F...	M7	MD	8.5
147	250	500	3	UEC1-500F...	M7	MD	10.8
200	335	630	3	UEC1-630F...	M7	MD	17.4
200	335	630	4	UEC1-630F4...	M7	MD	20.5
250	450	800	3	UEC1-800F...	M7	MD	19.0

Coil control voltage⁽¹⁾:

AC supply-50/60Hz	Voltage (V)	24	36	48	110	220	380
	Code	B7	CC7	E7	F7	M7	Q7
DC supply	Voltage (V)	24	48	110	220	-	-
	Code	BD	ED	FD	MD	-	-

Note: ⁽¹⁾* B7 only for the contactor 115...330A, CC7 only for the contactor 115...500A, E7, BD only for the contactor 115...225A.
For other voltages, please consult your Regional Sales Office.

Reference Selection Table

CA1R series auxiliary contact blocks						
Mounting type		Switching capacity	Auxiliary contacts ⁽¹⁾		Reference	Net weight (1 pc)
						kg
Top mounting		A600 Q600	0	2	CA1R02	0.035
			1	1	CA1R11	
			2	0	CA1R20	
			0	4	CA1R04	0.066
			1	3	CA1R13	
			2	2	CA1R22	
			3	1	CA1R31	
			4	0	CA1R40	

Note: ⁽¹⁾ All the above auxiliary contacts are all instantaneous auxiliary contacts.

Information for Use

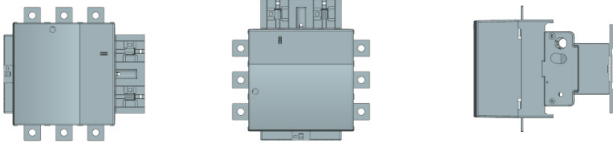
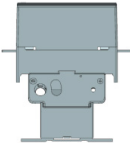
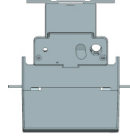
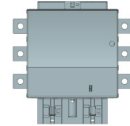
Altitude dependent compensation factor

- The rarefied atmosphere at high altitude reduces the dielectric strength of the air and hence the rated operational voltage of the contactor. It also reduces the cooling effect of the air and hence the rated operational current of the contactor (unless the temperature drops at the same time).
- At an altitude of less than 3000m, no significant effect on the performance of the product. When the altitude is above 3000m, conditions of air cooling and decrease of rated impulse withstand voltage have to be considered, so the design and application need to be further communicated with manufacturer.

Correction coefficients of operational voltage and operational current when the altitude is above 3000m are described as below.

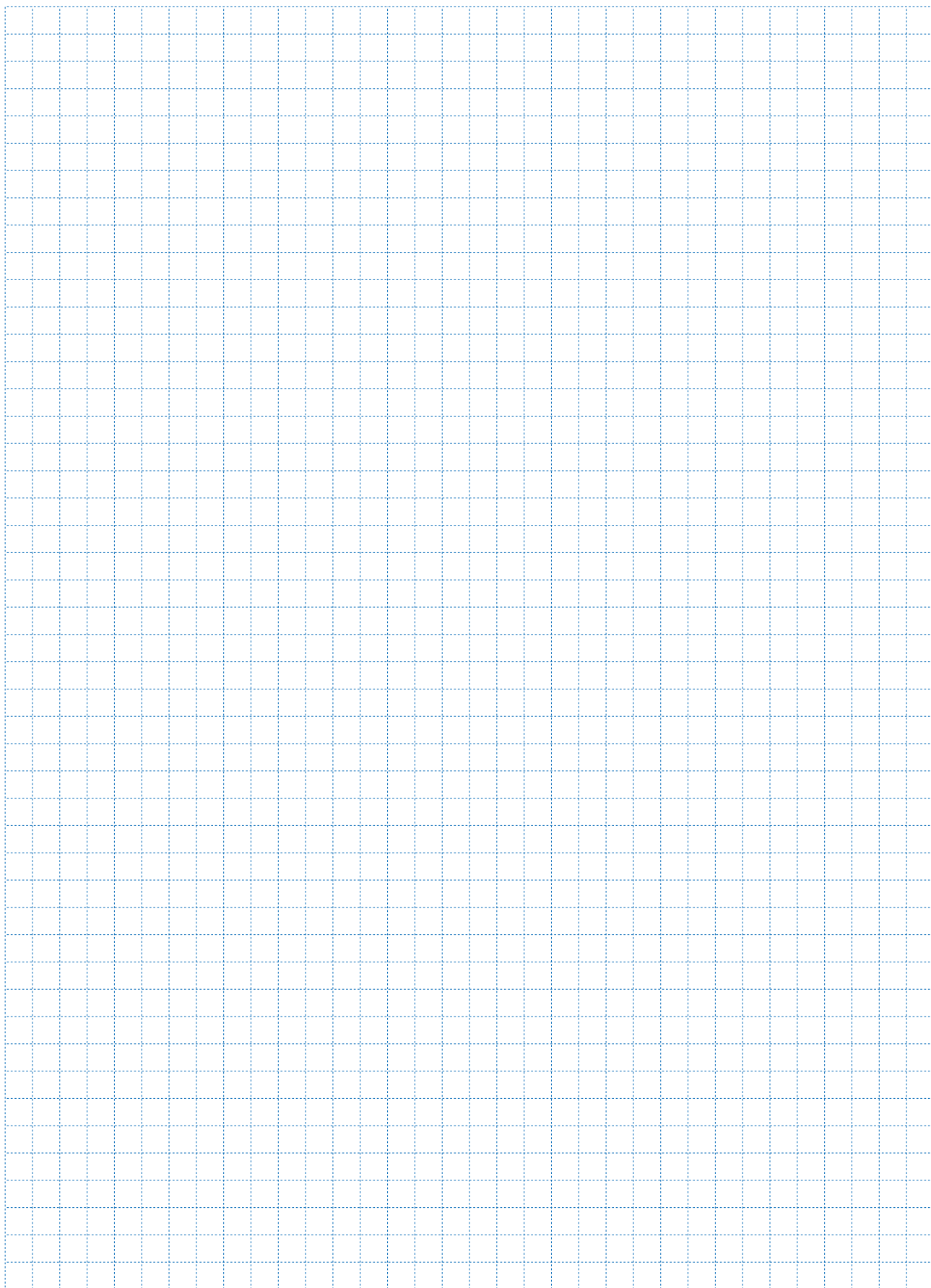
Altitude(m)	Rated operational voltage	Rated operational current
≤3500	0.90	0.92
≤4000	0.80	0.90
≤4500	0.70	0.88
≤5000	0.60	0.86

Operating positions dependent compensation factor

Operating positions		
Without derating		
With derating		Apply the following derating coefficients: 0.75 on the pull-in voltage, 0.9 on the drop-out voltage and 0.8 on the operational current in AC-1.
		Apply the following derating coefficients: 1.15 on the pull-in voltage, 1.1 on the drop-out voltage and 0.8 on the operational current in AC-1.
Not to be used		

Technical parameter explanation

Parameters contained in this catalogue such as electrical durability and mechanical durability are based on standard samples' test results, and the actual use may differ from these due to the difference of environment, operating frequency, devices etc.



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