

ELX – CONTACTORS RANGE

3P, 4P & CAPACITOR DUTY

with AC/DC Coil



3P CONTACTOR



3P CONTACTOR



CAPACITOR DUTY CONTACTOR

ELX Range includes:

- 3P Contactor from 9A to 800A AC3
- 4P Contactor from 16A to 1000A AC1
- Capacitor Duty Contactor - 3kVAr to 100kVAr, AC6b

ELX Series Contactors can be utilized as per following application for frequent operation and harsh environment with wide band coil which assure reliable and trouble free operations.

- Heating, Lighting, DG, Transformer, Motor and Capacitors etc.
- Controlling distribution circuit, EV charger, Data centers etc.

These contactors confirm to latest IEC/EN 60947-4-1 & CE.

Type	Operation and installation conditions
Installation class	III
Pollution degree	3
Compliant standards	IEC/EN 60947-1, IEC/EN 60947-4-1, IEC/EN 60947-5-1
Certification mark	CE
Enclosure protection degree	IP20
Ambient temperature	Normal operation temperature range: -5°C~+55°C. Storage temperature range: -60°C~+80°C.
Altitude	< 2000 m above sea level
Atmospheric conditions	Up to 90%
Installation conditions	The angle between the installation surface and the vertical surface should not exceed $\pm 5^\circ$.

Technical performance

Rated insulation voltage U_i (V)	• 800V upto 100A AC-3 • 1000V upto 800A AC-3
Rated impulse withstand voltage U_{imp} (kV)	8kV
Rated making capacity	Making current: $10 \times I_e$ (AC-3) or $12 \times I_e$ (AC-4)



Rated breaking capacity		Breaking current: 8×Ie (AC-3) or 10×Ie (AC-4)	
Electrical life (cycles)		ELX-09~18	2.8×10 ⁶
		ELX-25~32	2.0×10 ⁶
		ELX-40~65	2.0×10 ⁶
		ELX-80~100	2.0×10 ⁶
		ELX-115~265	1.8×10 ⁶
		ELX-330~800	1.6×10 ⁶
Mechanical life (cycles)		ELX-09~18	22×10 ⁶
		ELX-25~32	22×10 ⁶
		ELX-40~65	18×10 ⁶
		ELX-80~100	12×10 ⁶
		ELX-115~265	11×10 ⁶
		ELX-330~800	8×10 ⁶
Main contact		3 P & 4 P	
Matching thermal overload relay		ELX-09~32	ETR-32
		ELX-40~100	ETR-100
Built-in auxiliary contact		3P	1 NO+1 NC
		4P	-
Coil control power supply		ELX-09~18	24, 110, 220, 240, 415, Wide band.
		ELX-25~100	24, 36, 48, 110, 220, 240, 415, Wide band.
		ELX-150~800	24 ~660V
Control voltage		Pick up	ELX-9 to 100 (70% ~ 120%) Us, ELX-115 to 800 (85% ~ 110%)
		Drop off	ELX-9 to 100 (20% ~ 65%) Us, ELX AC - 115 to 800 (20% ~ 75%) ELX DC - 115 to 800 (10% ~ 75%)
Coil average power (VA)	Inrush	ELX-09~18	40~60
		ELX-25~32	50~70
		ELX-40~65	160~120
		ELX-80~100	190~250
		115~150	550



Pick up power (VA)	185~225	810
	265	1200
	330	600
	400	1000
	500	1050
	630	1500
	780	1900
	800	1600
Hold power (VA)	ELX-09~18	9.5
	ELX-25~32	8~11.4
	ELX-40~65	13~24
	ELX-80~100	17~30
	115~150	45
	185~225	55
	265	85
	330	10
	400	12
	500	16
	630	20
	780	45
	800	22

Contactor model		Conventional thermal current I _{th}	Rated operation current I _e (A)		Rated control power
		(A)	AC-3	AC-4	AC-3(kW)
ELX-09	220V/230V/240V	25	9	9	2.2
	380V/400V/415V	25	9	9	4
	660V/690V	25	6.6	6.6	5.5
ELX-12	220V/230V/240V	30	12	12	3
	380V/400V/415V	30	12	12	5.5
	660V/690V	30	8.9	8.9	7.5
ELX-18	220V/230V/240V	30	18	18	4
	380V/400V/415V	32	18	18	7.5
	660V/690V	32	12	12	10
ELX-25	220V/230V/240V	45	25	25	5.5
	380V/400V/415V	45	25	25	11
	660V/690V	45	18	18	15
ELX-32	220V/230V/240V	55	32	32	7.5
	380V/400V/415V	55	32	32	15
	660V/690V	55	22	22	18.5
	220V/230V/240V	55	40	40	11



Contactor model	Rated voltage (V)	Conventional thermal current I _{th} (A)	Rated operation current I _e (A)		Rated control power AC-3 (kW)
			AC-3	AC-4	
ELX-40	380V/400V/415V	55	40	40	18.5
	660V/690V	55	34	34	30
	220V/230V/240V	85	50	50	15
ELX-50	380V/400V/415V	85	50	50	22
	660V/690V	85	39	39	37
	220V/230V/240V	100	65	65	18.5
ELX-70	380V/400V/415V	100	65	65	30
	660V/690V	100	42	42	37
	220V/230V/240V	100	80	80	22
ELX-80	380V/400V/415V	100	80	80	37
	660V/690V	100	49	49	45
	220V/230V/240V	160	100	100	25
ELX-100	380V/400V/415V	160	100	100	45
	660V/690V	160	49	49	45
ELX-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
ELX-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
ELX-185	220V/240V	275	275	185	55
	380V/400V	275	275	185	90
	415V/440V	275	275	1.85	100
	500V	275	275	—	110
	660V/690V	275	275	—	120
	1000V	275	275	—	100
ELX-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
ELX-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



Contactor model	Rated voltage (V)	Conventional thermal current I _{th} (A)	Rated operation current I _e (A)		Rated control power AC-3 (kW)
			max AC-1	max AC-3	
ELX-330	240V	400	400	330	100
	400V	400	400	330	160
	440V	400	400	330	180
	500V	400	400	–	200
	690V	400	400	–	220
	1000V	400	400	–	160
ELX-400	240V	500	500	400	129
	400V	500	500	400	200
	440V	500	500	400	220
	500V	500	500	–	257
	690V	500	500	–	280
	1000V	500	500	–	185
ELX-500	240V	700	700	500	147
	400V	700	700	500	250
	440V	700	700	500	280
	500V	700	700	–	335
	690V	700	700	–	355
	1000V	700	700	–	335
ELX-630	240V	900	800	630	200
	400V	900	800	630	335
	440V	900	800	630	275
	500V	900	800	–	400
	690V	900	800	–	450
	1000V	900	800	–	450
ELX-780	240V	1000	1000	780	220
	400V	1000	1000	780	400
	440V	1000	1000	265	425
	500V	1000	1000	–	450
	690V	1000	1000	–	475
	1000V	1000	1000	–	450



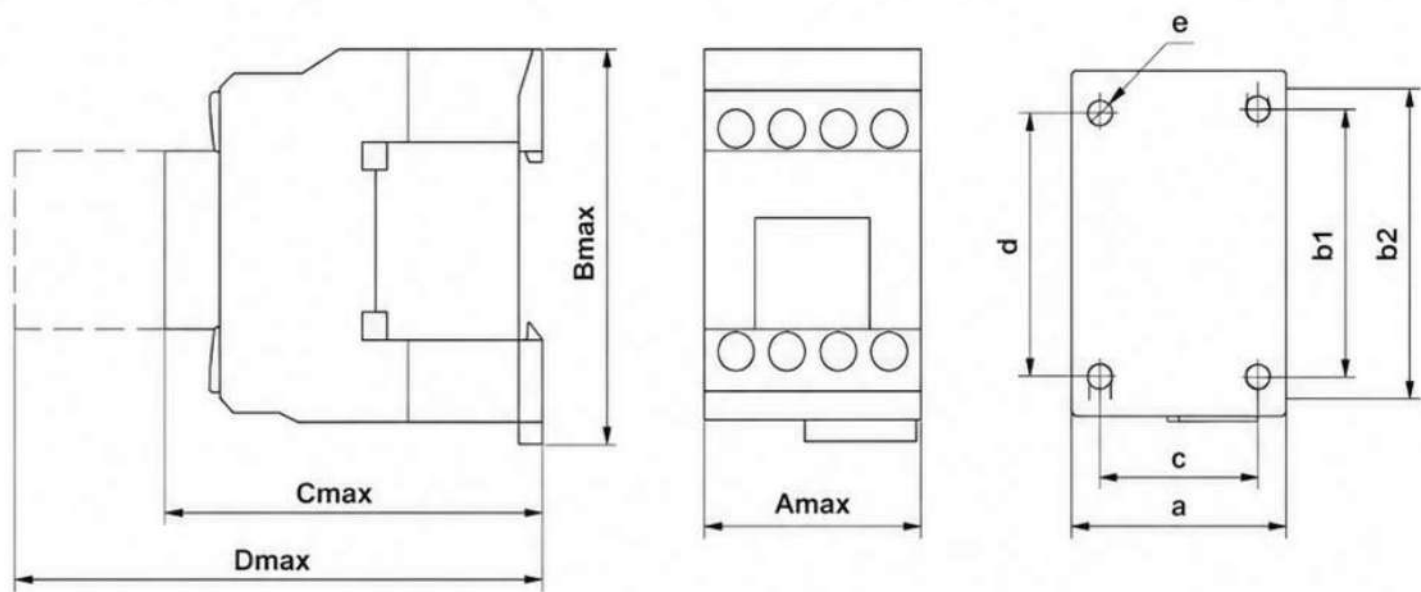
Contactor model	Rated voltage (V)	Conventional thermal current I _{th} (A) (θ≤40°C)	Rated operation current I _e (A)		Rated control power AC-3(kW)
			max AC-1 (θ≤40°C)	max AC-3 (θ≤55°C)	
ELX-800F	220V/240V	1000	1000	800	220
	380V/400V	1000	1000	800	400
	415V/440V	1000	1000	800	425
	500V	1000	1000	—	450
	660V/690V	1000	1000	—	475
	1000V	1000	1000	—	450

Contactor wiring			No. of poles	ELX-09~12	ELX-18~25	ELX-32~40	ELX-50~70	ELX-80~110
Main circuit connection (mm ²)	Cable connection	Prefabricated flexible wire	1	1~4	1.5~6	1.5~10	6~25	10~35
		flexible wire	2	1~2.5	1.5~4	1.5~6	4~10	6~16
	connection (mm ²)	Hard wire	1	1~4	1.5~6	1.5~6	6~25	10~35
		Hard wire	2	1~4	1.5~6	1.5~6	4~10	6~16
	Size of fastening screw			M3.5	M3.5	M4	M8	M8
	Tightening torque (N·m)			0.8	0.8	1.2	6	6
Cable circuit connection (mm ²)	Cable connection	Prefabricated flexible wire	1			1~4		
		flexible wire	2			1~2.5		
	connection (mm ²)	Hard wire	1			1~4		
		Hard wire	2			1~4		
	Size of fastening screw					M3.5		
	Tightening torque (N·m)					0.8		



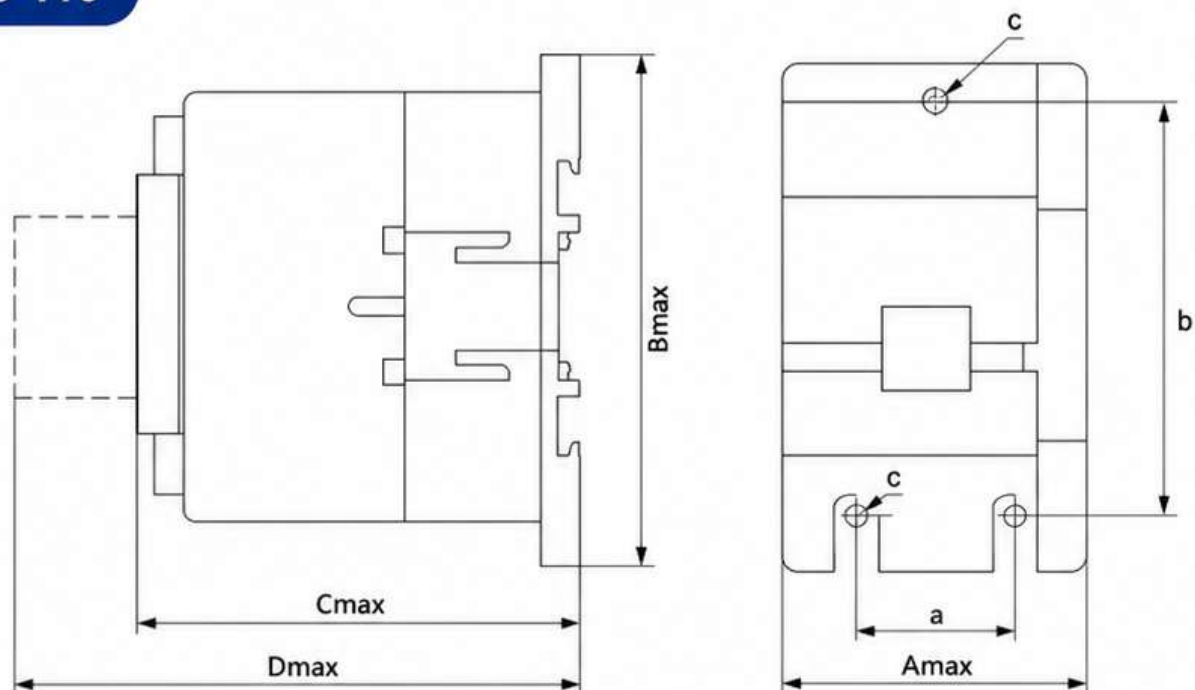
Dimensions (mm)

ELX-09~32



Contactor model	Amax	Bmax	Cmax	Dmax	a	b1/b2	c	d	e
ELX-09~18	45	75	85	117	35	50/60	34	48	∅ 5
ELX-25~32	45	85	92	124	35	50/60	34	48	∅ 5





Contactor model	Amax	Bmax	Cmax	Dmax	a	b	c
ELX-40-70	77	127	117	151	40	100/110	Ø 6.5
ELX-80-110	86	127	125	160	40	100/110	Ø 6.5

Contactor wiring		115	150/185	225	265	330	400	500	630	780	800
Cabling	The maximum cross-sectional area number of cable (mm ²)	2	2	2	2	2	2	2	2	2	2
	Cable	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)	Ø6	Ø8	Ø10	Ø10	Ø10	Ø10	Ø10	Ø12	Ø12	Ø12
Cable circuit connection	Tightening torque (N·m)	10	18	35	35	35	35	35	58	58	58



CAPACITOR DUTY CONTACTOR



Designed for AC systems with rated voltages up to 690V with and without harmonic conditions and operating frequencies of 50Hz/60Hz, the ELX-C19 Capacitor Contactor is purpose-built for switching low-voltage shunt capacitors in parallel reactive power compensation circuits.

The contactor incorporates a built-in current limiting resistor that effectively suppresses the inrush surge current generated at the moment of capacitor energization. This surge suppression mechanism significantly reduces electrical stress on the capacitors, thereby enhancing their operational reliability and extending their overall service life.



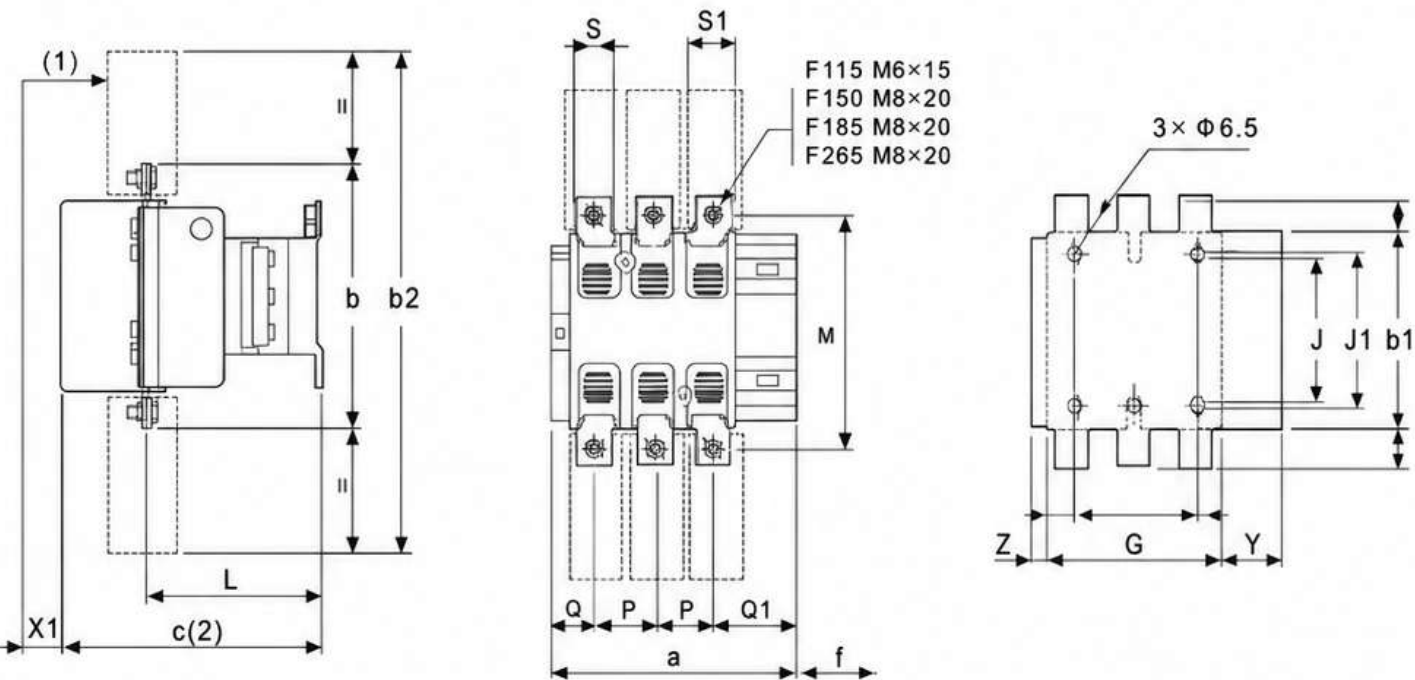
Capacitor duty contactors are available from 5kVar to 100 kVar with inrush current limitation factor of 250 Ir.

OPERATION AND INSTALLATION CONDITIONS

Type	Operation and installation conditions
 Installation class	III
 Pollution degree	3
 Compliant standards	IEC/EN 60947-1, IEC/EN 60947-4-1, IEC/EN 60947-5-1
 Certification mark	CE
 Enclosure protection degree	IP20
 Ambient temperature	• Normal operation temperature range: 5°C~+55°C. • Storage temperature range: -60°C~+80°C.
 Altitude	< 2000 m above sea level
 Atmospheric conditions	Up to 90%
 Installation conditions	The angle between the installation surface and the vertical surface should not exceed $\pm 5^\circ$.



Dimensions (mm)

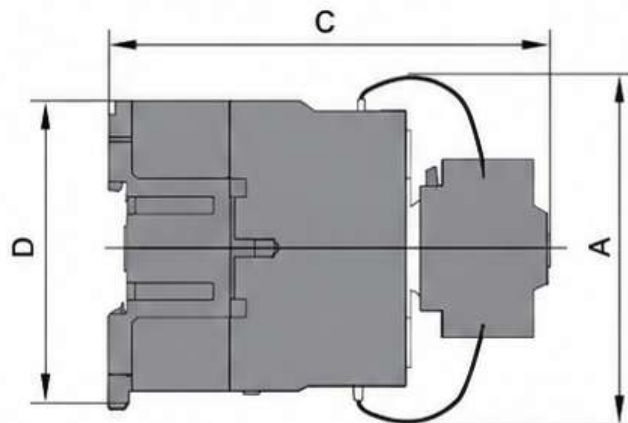
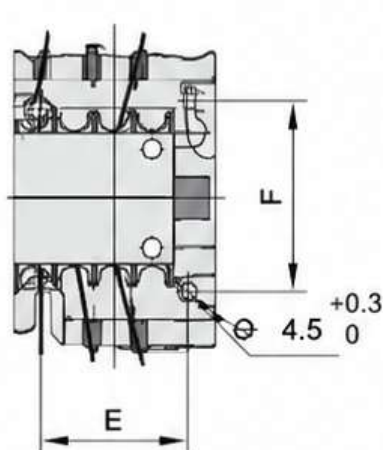


Current		115	150	185	225	265	330	400	500	630	780	800
Item	A	163.5	163.5	168.5	168.5	201.5	213	213	233	309	704	309
	B	162	170	174	197	203	206	206	238	304	435	304
	C	171	171	181	181	213	219	219	232	255	255	255
	F	131	131	130	130	147	147	151	169	201	201	201
	G	106	106	111	111	140	154.5	170 (156-192)	170 (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



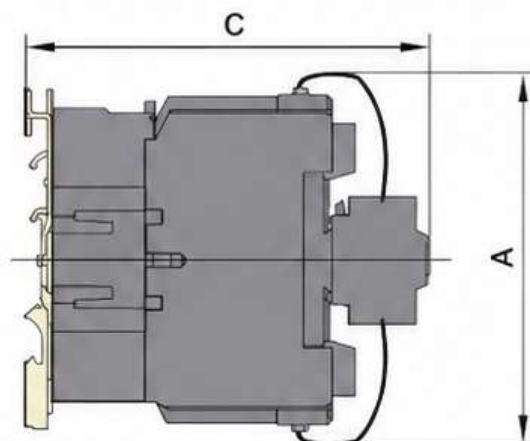
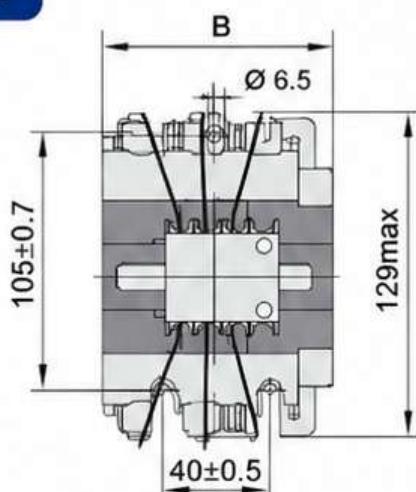
DIMENSIONS

ELX-C25~32



Contactor model	Amax	Bmax	Cmax	Dmax	E	F	Note
ELX-C25~32	80	45	132	85	34	50/60	Not only fixed by screws but also could be fixed with 35mm din rail

ELX-C40~95



Contactor model	Amax	Bmax	Cmax	Dmax	Note
ELX-40~63	132	77	153	127	Not only fixed by screws but also could be fixed with 35mm and 75mm din rail
ELX-95	135	86	153	127	

WIRING AND INSTALLATION

- The connection terminals are protected through insulation cover, which is reliable and secure for installation and operation.
- For ELX-C 25~40, screws are available for installation, as well as the DIN rail; for ELX-C 63~95, standard rail are available for 35mm or 75mm standards rail are available for installation.

