

INDUSTRIAL SWITCHGEAR

**Complete Motor Starter &
Protection Solutions**

by **XUNWO ELECTRIC**

**Precision Built.
Globally Certified.
Trusted in 50+ Countries.**

Advanced Protection and Control Solutions
by **XUNWO-ELECTRIC**



EDITION **2026**





State-of-the-art Manufacturing Facility | Wenzhou, Zhejiang Province, China

Zhejiang Xunwo Electric Co., Ltd. is a leading Chinese manufacturer specializing in Motor Protection Circuit Breakers, Magnetic Contactors, and Thermal Overload Relays. Established in **2011** and headquartered in Wenzhou, Zhejiang Province, China, we have grown into a globally trusted brand present in over 50 countries. With **15+** years of 100% in-house manufacturing experience, every product is designed, engineered, tested, and quality-checked under one roof — ensuring consistent quality, competitive pricing, and on-time delivery for our global partners.



15+

Years of Experience



50+

Countries Served



200+

Employees



100%

In-House Production



ISO 9001:2015



CE Marking



CCC Certified



IEC 60947



RoHS Compliant

Our Certifications



ISO 9001:2015 — Quality Management System
Valid until: 2028



ISO 14001:2015 — Environmental Management System
Valid until: 2026



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ISO 9001

Where Precision Meets Production

From raw material to finished product — everything under one roof



01 **CNC & Tooling** —
Precision machining for
tight tolerances



02 **Automated PCB** —
Advanced assembly &
soldering lines



03 **Injection Moulding** —
Durable housing
production



04 **Coil & Contacts** —
Core component
manufacturing



05 **Surface Treatment** —
In-house finishing &
coating



06 **Quality Testing** —
100% in-house
QC lab



Every XUNWO product is assembled, tested
and quality-checked at our Wenzhou facility, China

“ | Quality is not inspected — it is manufactured. ”

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-800	240V	1000	1000	780	220
	400V	1000	1000	780	400
	440V	1000	1000	780	425
	500V	1000	1000	–	450
	690V	1000	1000	–	475
	1000V	1000	1000	–	450

XUNWO Electric — Four-Pole Contactors (AC Control Circuit)

Contactor 4P.	Rated voltage (V)	Conventional thermal current I _{th} (A) (θ≤55°C)	Rated operation current I _e (A)	Rated control power AC-3 (kW)
			max AC-1 (θ≤55°C)	
ELX20K	230V	20	20	8
	400V			14
	415V			14
	440V			15
	500V			16
	690V			22
ELX25K	230V	25	25	9.5
	400V			16
	415V			17
	440V			18
	500V			21
	690V			27
ELX28K	230V	28	28	10
	400V			18
	415V			19
	440V			20
	500V			23
	690V			32



Contactor 4P.	Rated voltage (V)	Conventional thermal current I _{th} (A) (θ≤55°C)	Rated operation current I _e (A)	Rated control power AC-3 (kW)
			max AC-1 (θ≤55°C)	
ELX32K	230V	32	32	12
	400V			21
	415V			22
	440V			23
	500V			26
	690V			36
ELX45K	230V	45	45	17
	400V			30
	415V			31
	440V			33
	500V			37
	690V			51
ELX60K	230V	56 (60)	56 (60)	21
	400V			36
	415V			38
	440V			40
	500V			45
	690V			62



Contactor 4P.	Rated voltage (V)	Conventional thermal current Ith (A) ($\theta \leq 55^{\circ}\text{C}$)	Rated operation current Ie (A)	Rated control power AC-3 (kW)
			max AC-1 ($\theta \leq 55^{\circ}\text{C}$)	
ELX70K	230V	70	70	26
	400V			46
	415V			48
	440V			51
	500V			58
	690V			79
	1000V			115
ELX90K	230V	90	90	34
	400V			59
	415V			61
	440V			65
	500V			74
	690V			102
	1000V			148

Contactor 4P.	Rated voltage (V)	Conventional thermal current Ith (A) ($\theta \leq 55^{\circ}\text{C}$)	Rated operation current Ie (A)	Rated control power AC-3 (kW)
			max AC-1 ($\theta \leq 55^{\circ}\text{C}$)	
ELX100K	230V	100	100	38
	400V			65
	415V			68
	440V			72
	500V			82
	690V			114
	1000V			165
ELX115K	230V	115	115	43
	400V			76
	415V			79
	440V			83
	500V			95
	690V			120
	1000V			185



Contactor 4P.	Rated voltage (V)	Conventional thermal current Ith (A) ($\theta \leq 55^{\circ}\text{C}$)	Rated operation current Ie (A)	Rated control power AC-3 (kW)
			max AC-1 ($\theta \leq 55^{\circ}\text{C}$)	
ELX140K	230V	140	140	53
	400V			92
	415V			96
	440V			101
	500V			115
	690V			159
	1000V			230
ELX160K	230V	160	160	61
	400V			105
	415V			109
	440V			116
	500V			132
	690V			182
	1000V			263

Contactor 4P.	Rated voltage (V)	Conventional thermal current Ith (A) ($\theta \leq 55^{\circ}\text{C}$)	Rated operation current Ie (A)	Rated control power AC-3 (kW)
			max AC-1 ($\theta \leq 55^{\circ}\text{C}$)	
ELX165K	230V	165	165	62
	400V			110
	415V			113
	440V			119
	500V			136
	690V			187
	1000V			271
ELX250K	230V	250	250	95
	400V			165
	415V			171
	440V			181
	500V			206
	690V			284
	1000V			411

Contactor 4P.	Rated voltage (V)	Conventional thermal current Ith (A) ($\theta \leq 55^{\circ}\text{C}$)	Rated operation current Ie (A)	Rated control power AC-3 (kW)
			max AC-1 ($\theta \leq 55^{\circ}\text{C}$)	
ELX275K	230V	275	275	104
	400V			181
	415V			188
	440V			199
	500V			226
	690V			312
	1000V			452
ELX350K	230V	350	350	132
	400V			230
	415V			239
	440V			253
	500V			288
	690V			397
	1000V			576



Contactor 4P.	Rated voltage (V)	Conventional thermal current Ith (A) ($\theta \leq 55^{\circ}\text{C}$)	Rated operation current Ie (A)	Rated control power AC-3 (kW)
			max AC-1 ($\theta \leq 55^{\circ}\text{C}$)	
ELX450K	230V	450	450	170
	400V			296
	415V			307
	440V			326
	500V			370
	690V			511
	1000V			740
ELX500K	230V	500	500	189
	400V			329
	415V			341
	440V			362
	500V			411
	690V			568
	1000V			823

Contactor 4P.	Rated voltage (V)	Conventional thermal current Ith (A) ($\theta \leq 55^{\circ}\text{C}$)	Rated operation current Ie (A)	Rated control power AC-3 (kW)
			max AC-1 ($\theta \leq 55^{\circ}\text{C}$)	
ELX600K	230V	600	600	227
	400V			395
	415V			410
	440V			434
	500V			494
	690V			681
	1000V			987
ELX700K	230V	700	700	252
	400V			438
	415V			478
	440V			500
	500V			575
	690V			755
	1000V			1100

Contactor 4P.	Rated voltage (V)	Conventional thermal current Ith (A) ($\theta \leq 55^{\circ}\text{C}$)	Rated operation current Ie (A)	Rated control power AC-3 (kW)
			max AC-1 ($\theta \leq 55^{\circ}\text{C}$)	
ELX800K	230V	800	800	288
	400V			500
	415V			545
	440V			580
	500V			655
	690V			860
	1000V			1250
ELX1000K	230V	1000	1000	350
	400V			600
	415V			630
	440V			725
	500V			750
	690V			1000
	1000V			1600

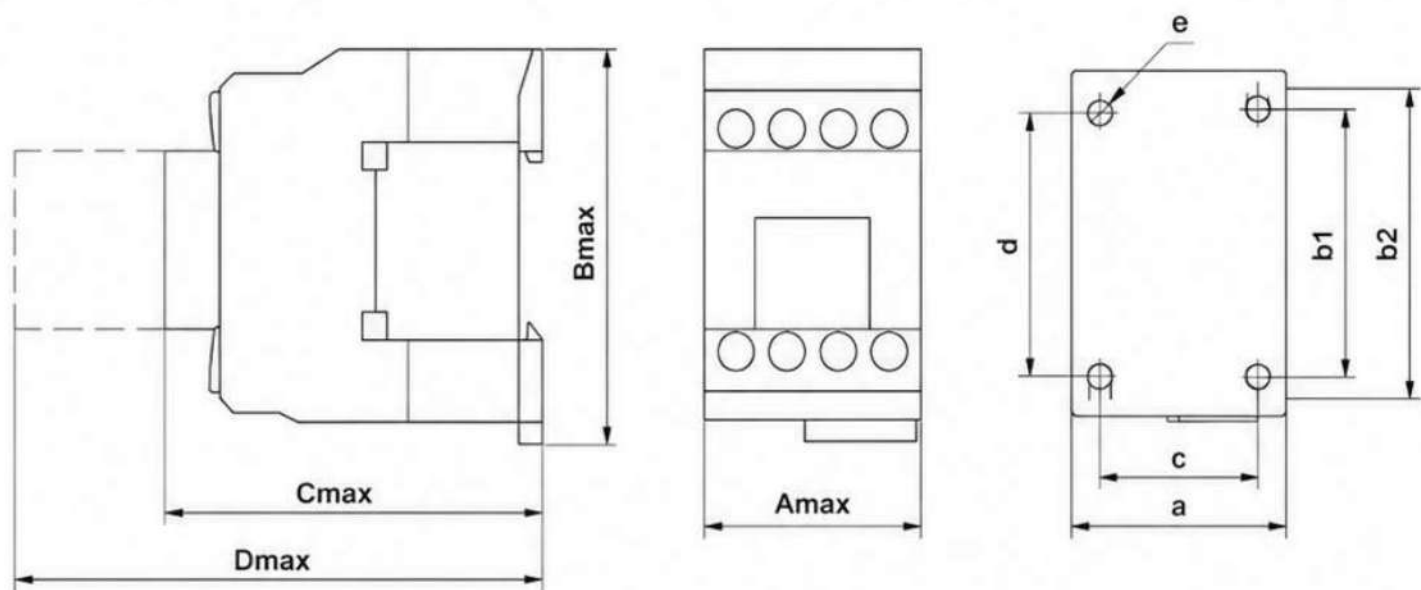
Contactor 4P.	Rated voltage (V)	Conventional thermal current Ith (A) ($\theta \leq 55^{\circ}\text{C}$)	Rated operation current Ie (A)	Rated control power AC-3 (kW)
			max AC-1 ($\theta \leq 55^{\circ}\text{C}$)	
ELX1250K	230V	1250	1250	480
	400V			830
	415V			900
	440V			905
	500V			1100
	690V			1450
	1000V			2000
ELX1600K	230V	1600	1600	550
	400V			950
	415V			1000
	440V			1160
	500V			1200
	690V			1650
	1000V			2500

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		



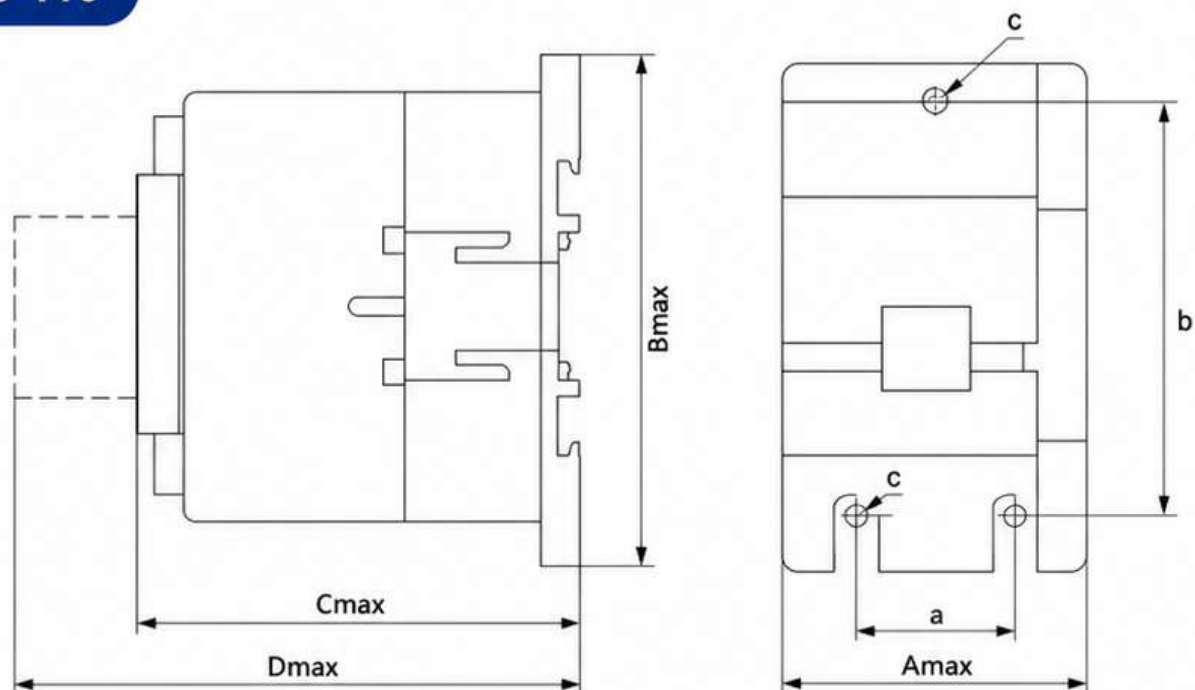
Dimensions (mm)

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.



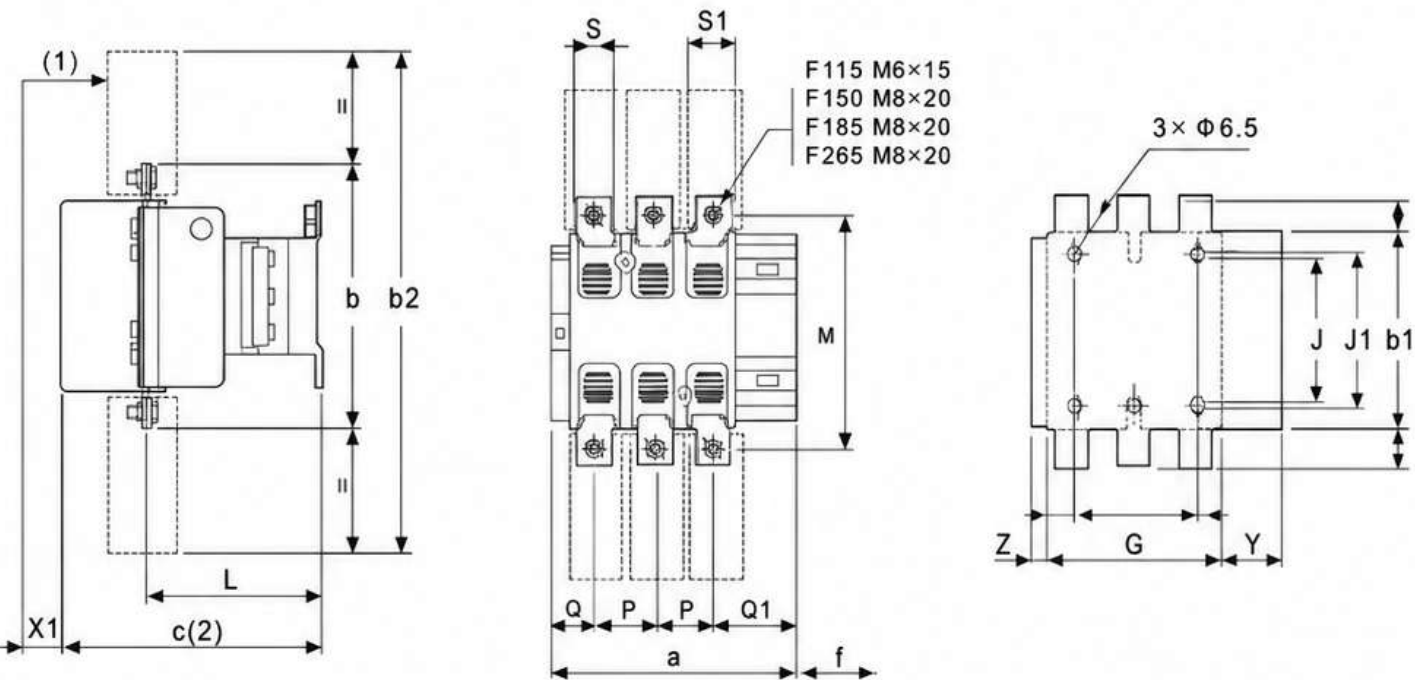
Capacitor duty contactors are available from 5kVar to 100 kVar with inrush current limitation factor of 250 Ir.

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)

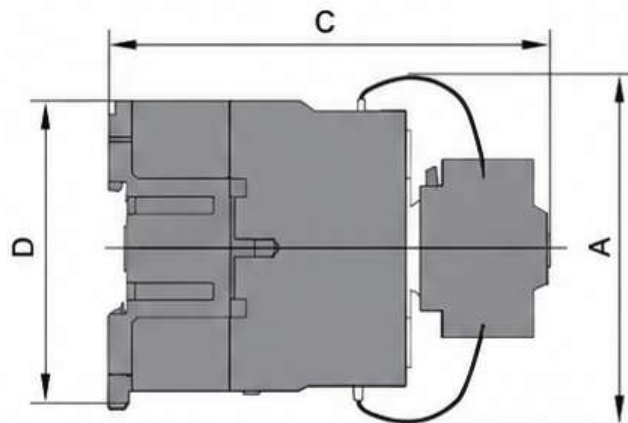
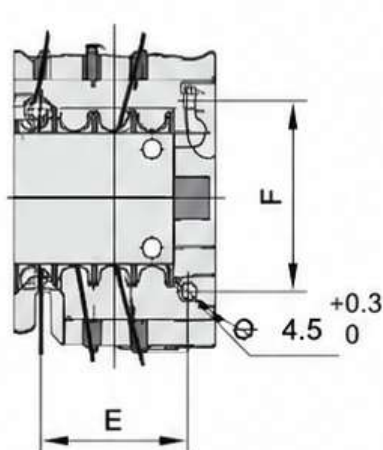


Current		115	150	185	225	265	330	400	500	630	780	800
Item	A	163.5	163.5	168.5	168.5	201.5	213	213	233	309	704	309
	B	162	170	174	197	203	206	206	238	304	435	304
	C	171	171	181	181	213	219	219	232	255	255	255
	F	131	131	130	130	147	147	151	169	201	201	201
	G	106	106	111	111	140	154.5	170 (156-192)	170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



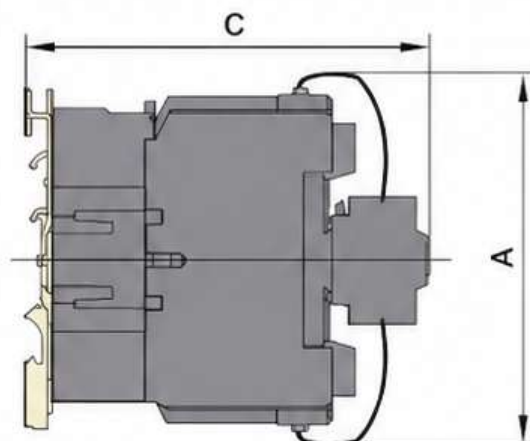
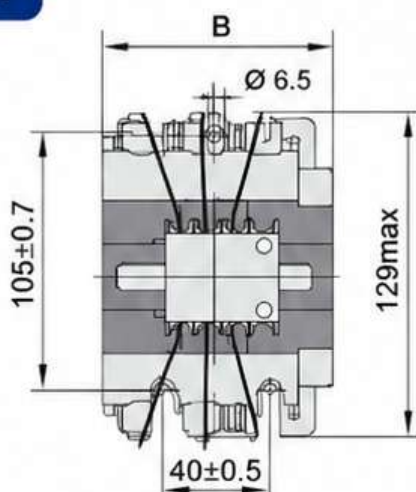
DIMENSIONS

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.



Product Range Overview

Complete Motor Starter & Protection Solutions —
Engineered for Global Industrial Applications



XU2 Series

Motor Protection Circuit Breaker

- A** Range: 16A to 100A
- ⚡** Voltage: Up to 690V
- 🛡️** Standard: IEC 60947-2
- CE** CE | CCC Certified

→ See Page **4**



ELX Series

Magnetic Contactor

- A** Range: 0.1A – 100A
- 🔌** Coil: AC/DC/AC-DC
- 🌡️** Temp: -50°C to +70°C
- 🛡️** Standard: IEC 60947-4-1
- CE** CE | CCC | UL Certified

→ See Page **8**



XUR2 Series

Thermal Overload Relay

- A** Range: 0.1A – 93A
- 🔄** Auto & Manual Reset
- 🛡️** Standard: IEC 60947-4-1
- CE** CE | CCC Certified

→ See Page **12**

Complete Motor Starter Solution

1 MPCB (XU2)

Short Circuit
Protection



2 CONTACTOR (ELX)

Motor Switching



3 OVERLOAD RELAY (XUR2)

Overload &
Phase Failure



**COMPLETE
MOTOR
PROTECTION**



All XUNWO products are 100% manufactured in-house at our Wenzhou, China facility and globally certified for industrial applications.



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9001



XUR2 THERMAL OVERLOAD RELAY



XUR2-32



XUR2-93

Applicable Scope

Type XUR2 Thermal Overload Relay is suitable for AC current 50Hz/60Hz systems with voltage up to 690V.

- Suitable for three-phase and single-phase motor applications.
- Provides Class 10 protection.
- Protects motors against overload and phase failure.
- Automatic and manual reset functions included.
- Test and stop functions included.
- Conforms to IEC 60947-4-1 and IEC 60947-5-1 standards.

Technical Features

Type number	XUR2	
Rated current	XUR2-32	0.1-32A
	XUR2-93	23-93A
Rated insulated voltage V	690V	
Rated impulse withstand voltage Uimp V	60000V	
Phase failure protection function	YES	
Automatic and manual reset	YES	
Temperature compensation	YES	
Tripping indicator	YES	
Test and stop push button	YES	
Mounting type	Pulg in mounting	
Frame protection degree	IP 20	
Standards	IEC 60947-4-1 ,IEC 60947-5-1	
Auxiliary contacts	1NO+1NC	
Contacts configuration	1NO+1NC	
Rated current (A) AC-15 220V	2.73	
Rated current (A) AC-15 380V	1.57	



XUR2 Thermal overload relay

Contactor wiring

Contactor wiring			XUR2-32	XUR2-93
Cross section area of conductor mm ²	Main circuit	Single core or standard sired	4-10mm ²	4-35mm ²
		Wiring screw	M4	M10
	Auxiliary circuit	Single core or standard sired	0.5-25	0.5-25
		Wiring screw	M3.5	M3.5

Frame	Rated current adjustable range (A)	Recommended fuse type		Matching for ac contactor (A)
		aM	gG	
XUR2-32	0.1-0.16	0.25	2	09-32A
	0.16-0.25	0.5	2	09-32A
	0.25-0.4	1	2	09-32A
	0.4-0.63	1	2	09-32A
	0.63-1	2	4	09-32A
	1-1.6	2	4	09-32A
	1.25-2	4	6	09-32A
	1.6-2.5	4	6	09-32A
	2.5-4	6	10	09-32A
	4-6	8	16	09-32A
	5.5-8	12	20	09-32A
	7-10	12	20	09-32A
	9-13	16	25	09-32A
	12-18	20	35	09-32A
	17-25	25	50	32A
	23-32	40	63	25-32A

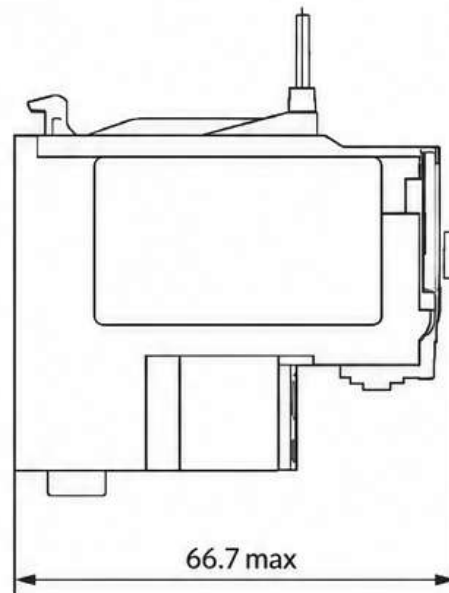
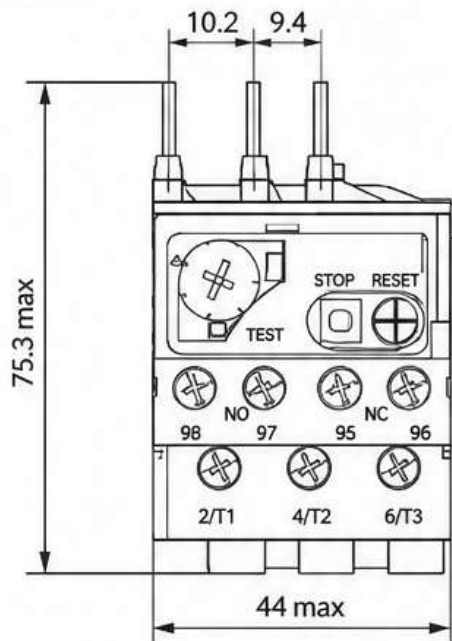
Frame	Rated current adjustable range (A)	Recommended fuse type		Matching for ac contactor (A)
		aM	gG	
XUR2-93	23-32	40	63	40A
	30-40	40	100	50A
	37-50	63	100	65A
	48-65	63	100	80A
	55-70	80	125	90A
	63-80	80	125	40-65A
	80-93	100	160	80-95A



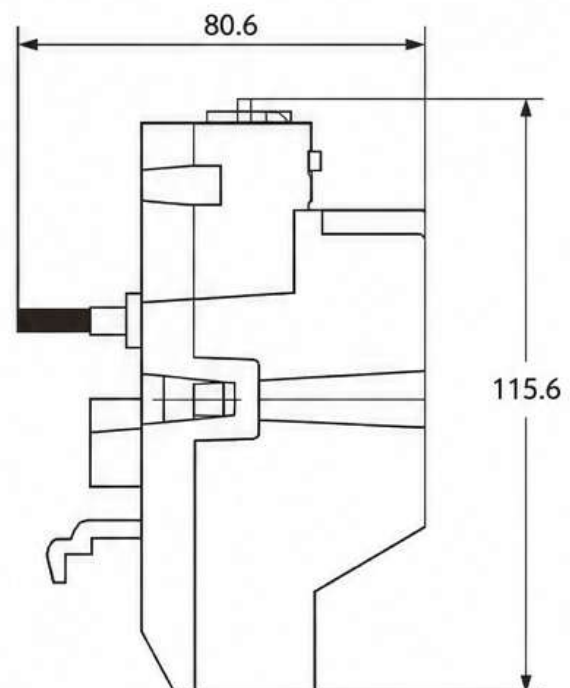
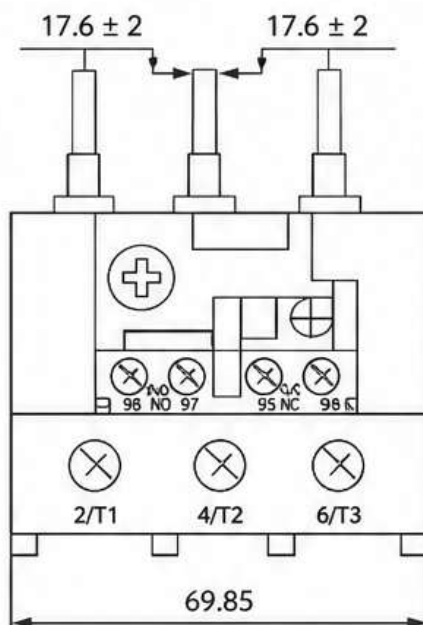
XUR2 Thermal overload relay

Dimensions (mm)

XUR2-32



XUR2-93



XU2 SERIES MANUAL MOTOR STARTER



INTRODUCTION

XU2 Manual Motor Starter is suitable for AC voltage up to 690V and current range from 0.16A to 100A. It provides protection against overload, phase failure, and short circuit for asynchronous motors. It can also be used for electrical line protection, infrequent load switching, and as an isolator.



GENERAL CHARACTERISTICS

The XU2 Series Manual Motor Starter and its associated accessories are fully compliant with the following international standards:

- **IEC 60947-1** – General Rules and Requirements
- **IEC 60947-2** – Circuit Breaker Standards
- **IEC 60947-4-1** – Electromechanical Contactors and Motor Starters

The XU2 Manual Motor Starter carries both CCC and CE certifications, reflecting its commitment to product quality, operational safety, and dependable performance across industrial applications. XU2 Manual Motor Starter has been design for rugged conditions @ 55° C and type two coordinated for IE3 premium Energy efficient Motor.



POLLUTION DEGREE

The XU2 Manual Motor Starter is rated at Pollution Degree 3, making it suitable for use in demanding industrial environments as classified under the IEC 947 standard. This ensures reliable operation even in conditions where conductive contamination or moisture may be present.



ENVIRONMENTAL RESPONSIBILITY

Environmental sustainability is a core consideration in the design and manufacture of the XU2 Manual Motor Starter. The product is built using materials that are predominantly recyclable, minimizing environmental impact at every stage of its lifecycle — from production through to end-of-life disposal.

► TECHNICAL PARAMETERS



XU2- M20 WITH THERMAL MAGNETIC PROTECTION

PUSH BUTTON MOTOR PROTECTION SWITCH								
50/60Hz, AC-3 standard three-phase motor rated power			Thermal Trip setting range	Magnetic trip current	Breaking Capacity @ 415V	the current with case	Model (button control)	Weight
230V	400V	415V						
kW	kW	kW	A	A		A		kG
...	...	0.02	0.1-0.16	1.5	100kA	0.16	XU2-M2001	0.260
...	...	0.06	0.16-0.25	2.4	100kA	0.25	XU2-M2002	0.260
...	...	0.09	0.25-0.40	5	100kA	0.40	XU2-M2003	0.260
...	...	0.12	0.40-0.63	8	100kA	0.63	XU2-M2004	0.260
...	...	0.25	0.63-1	13	100kA	1	XU2-M2005	0.260
...	0.37	0.37	1-1.6	22.5	100kA	1.6	XU2-M2006	0.260
0.37	0.75	0.75	1.6-2.5	33.5	100kA	2.5	XU2-M2007	0.260
0.75	1.5	1.5	2.5 - 4	51	100kA	4	XU2-M2008	0.260
1.1	2.2	2.2	4 - 6.3	78	100kA	6.3	XU2-M2010	0.260
2.2	4	4	6-10.	138	100kA	9	XU2-M2014	0.260
3	5.5	5.5	9 - 14.	170	50kA	13	XU2-M2016	0.260
4	9	9	13-18	223	50kA	17	XU2-M2020	0.260
5.5	11	11	17-23	327	50kA	21	XU2-M2021	0.260
5.5	11	11	20-25	327	50kA	23	XU2-M2022	0.260
7.5	15	15	24-32	416	50kA	24	XU2-M2032	0.260

XU2-RS32 MOTOR WITH THERMAL MAGNETIC PROTECTIVE PROTECTION SWITCH

PUSH BUTTON CONTROL OR TRANSFER SWITCH CONTROL

50/60Hz, AC-3 standard three-phase motor rated power			Thermal Trip setting range	Magnetic trip current	Breaking Capacity @ 415V	Model (button control)	Weight
230V	400V	415V					
kW	kW	kW	A	A			kG
...	...	0.02	0.1-0.16	1.5	100kA	XU2-RS3201	0.260.
...	...	0.06	0.16-0.25	2.4	100kA	XU2-RS3202	0.260.
...	...	0.09	0.25-0.40	5	100kA	XU2-RS3203	0.260.
...	...	0.12	0.40-0.63	8	100kA	XU2-RS3204	0.260.
...	...	0.25	0.63-1	13	100kA	XU2-RS3205	0.260.
...	0.37	0.37	1-1.6	22.5	100kA	XU2-RS3206	0.260.
0.37	0.75	0.75	1.6-2.5	33.5	100kA	XU2-RS3207	0.260.
0.75	1.5	1.5	2.5 - 4	51	100kA	XU2-RS3208	0.260.
1.1	2.2	2.2	4 - 6.3	78	100kA	XU2-RS3210	0.260.
2.2	4	4	6-10.	138	100kA	XU2-RS3214	0.260.
3	5.5	5.5	9 - 14.	170	50kA	XU2-RS3216	0.260.
4	9	9	13-18	223	50kA	XU2-RS3220	0.260.
5.5	11	11	17-23	327	50kA	XU2-RS3221	0.260.
5.5	11	11	20-25	327	50kA	XU2-RS3222	0.260.
7.5	15	15	24-32	416	50kA	XU2-RS3232	0.260.

► SWITCH SELECTION

► TECHNICAL PARAMETERS

XU2-LS32 MOTOR WITH THERMAL MAGNETIC PROTECTIVE PROTECTION SWITCH

TRANSFER SWITCH CONTROL								
50/60Hz, AC-3 standard rated power of three- phase motor				Magnetic trip current (I _d ± 20%)	Breaking Capacity @ 415V	With JRS4-d overload relay	Model (button control)	Weight
230V	400V	415V	Protecting rating					
kW	kW	kW	A	A				kG
...	...	...	0.4	5	100kA	JRS4-1303d	XU2-LS3203	0.330.
...	...	...	0.63	8	100kA	JRS4-1304d	XU2-LS3204	0.330.
...	...	...	1	13	100kA	JRS4-1305d	XU2-LS3205	0.330.
...	0.37	...	1.6	22.5	100kA	JRS4-1306d	XU2-LS3206	0.330.
0.37	0.75	0.75	2.5	33.5	100kA	JRS4-1307d	XU2-LS3207	0.330.
0.75	1.5	1.5	4	51	100kA	JRS4-1308d	XU2-LS3208	0.330.
1.1	2.2	2.2	6.3	78	100kA	JRS4-1310d	XU2-LS3210	0.330.
2.2	4	4	10	138	100kA	JRS4-1314d	XU2-LS3214	0.330.
3	5.5	5.5	14	170	50kA	JRS4-1316d	XU2-LS3216	0.330.
4	9	9	18	223	50kA	JRS4-1321d	XU2-LS3220	0.330.
5.5	11	11	25	327	50kA	JRS4-1322d	XU2-LS3222	0.330.
7.5	15	15	32	416	50kA	JRS4-2355d	DZS32-LS3232	0.330.



XU2-ME50C MOTOR WITH THERMAL MAGNETIC PROTECTIVE PROTECTION SWITCH

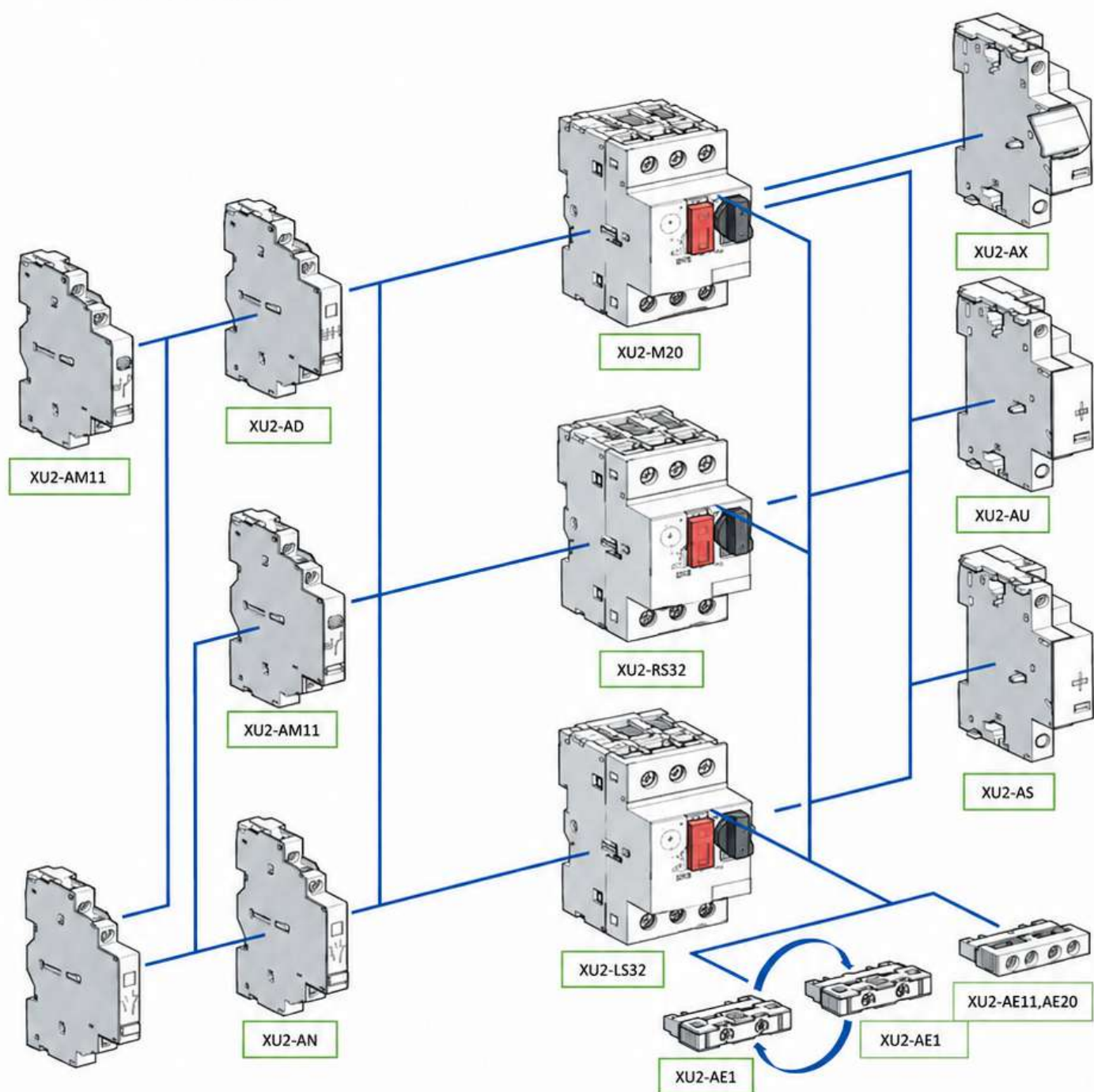
TRANSFER SWITCH CONTROL

50/60Hz, AC-3 standard rated power of three - phase motor			Thermal Trip setting range	Magnetic trip current (I _d +_ 20%)	Breaking Capacity @ 415V	Model (button control)	Weight
230V	400V	415V					
kW	kW	kW	A	A			kG
-	0.37	-	1-1.6	19.2	100kA	XU3-ME50C06	0.6
0.37	0.75	1.1	1.6-2.5	30	100kA	XU3-ME50C07	0.6
0.75	1.5	1.5	2.5-4	48	100kA	XU3-ME50C08	0.6
1.1	2.2	2.2	4-6.	72	100kA	XU3-ME50C10	0.6
2.2	4	4	06 - 10.	120	100kA	XU3-ME50C14	0.6
4	7.5	7.5	10 - 16.	J92	100kA	XU3-ME50C20	0.6
5.5	11	11	16-25	300	100kA	XU3-ME50C25	0.6
11	18.5	22	25-40	480	100kA	XU3-ME50C40	0.7
15	30	33	40-63	756	100kA	XU3-ME50C63	0.7
22	40	45	56-80	960	100kA	XU3-ME50C80	0.7

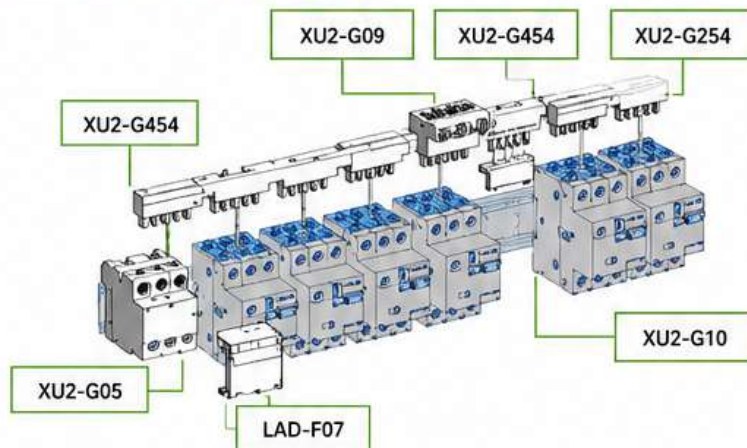
XU2 SERIES MANUAL MOTOR STARTER

ELECTRICAL ACCESSORIES

>WIRING DIAGRAM

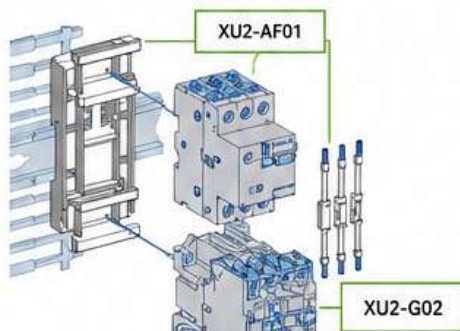


> TECHNICAL PARAMETERS



ADDITIONAL CONTACT BLOCK

Type	Install	Contact Type	Model	Weight
Instantaneous auxiliary contact	Front (1 block per circuit breaker)	N/O+N/C	XU2-AE1	0.020
		N/O+N/C	XU2-AE11	0.020
		N/O+N/O	XU2-AE20	0.020
	side (up to 2 pieces on the left side of the circuit breaker)	N/O+N/C	XU2-AN11	0.020
		N/O+N/O	XU2-AN20	0.020
Fault signal contact + instantaneous auxiliary contact	Side (1 block to the left of the circuit breaker)	N/O(Errors)+N/O	XU2-AD1010	0.055
		N/O(Errors)+N/C	XU2-AD1001	0.055
		N/C(Errors)+N/O	XU2-AD0110	0.055
		N/O(Errors)+N/C	XU2-AD0101	0.055
Short circuit signal contact	Side (1 block to the left of the circuit breaker)	C./O Ordinary point	XU2—AM11	0.045

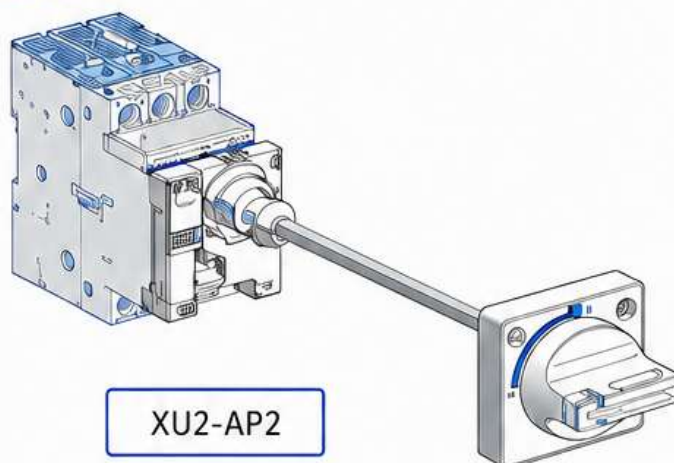


ELECTRIC TRIP

Type	Install	Voltage	Model	Weight
Low- voltage trip	Side (1 block to the left of the circuit breaker)	110-127V 50Hz	XU2-AU115	0.105
		220-240V 50Hz	XU2-AU225	0.105
		380-415V 50Hz	XU2-AU385	0.105
Parallel trip	Side (1 block to the left of the circuit breaker)	110-127V 50Hz	XU2-AS115	0.105
		220-240V 50Hz	XU2-AS225	0.105
		380-415V 50Hz	XU2-AS385	0.105
Low - voltage trip INRS	Side (1 block to the left of the circuit breaker)	110-127V 50Hz	XU2-AX115	0.110
		220-240V 50Hz	XU2-AS225	0.110
		380-415V 50Hz	XU2-AS385	0.110

➤ SWITCH SELECTION

➤ TECHNICAL PARAMETERS



INSTALLATION ACCESSORIES

Type	Application	Model	Weight
Motor starting socket board	Install one XU2- 20 and one ETR-D09 3- pole wiring to D25 Contactor	XU2-AF01	0.120

LOCKABLE EXTERNAL CONTROL KNOB (IP54)

Application	Model	Weight
For XU2-RS32, XU2-LS32 (150-290mm)	XU2—AP03	0.280

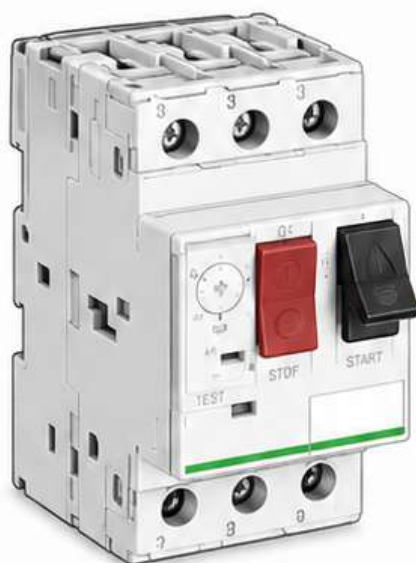
BUSBAR ACCESSORIES

Type	Application	Spacing	Model	Weight
3-pole busbar 63A	2 branches	45	XU2-G245	0.036
		54	XU2-G254	0.038
		72	XU2-G272	0.042
	3 branches	54	XU2-G354	0.058
	4 branches	45	XU2-G445	0.077
		54	XU2-G454	0.085
		72	XU2-G472	0.094
	5 branches	54	XU2-G554	0.100
Protective terminal cover	Protect unused busbar output	—	XU7-G10	0.005
Terminal Block	Top connection	—	XU7-G09	0.040

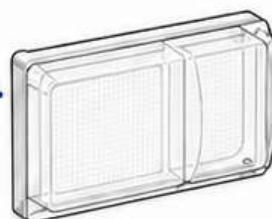
Note: The safety device of the dangerous machine complies with INRS and VDE0113 and must be installed on XU2—M20 or XU2—ME14.

XU2 SERIES MANUAL MOTOR STARTER

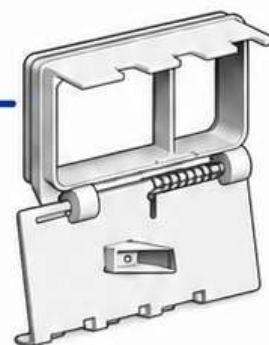
ELECTRICAL ACCESSORIES



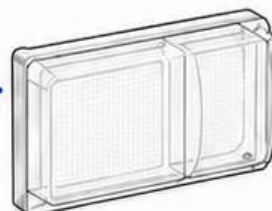
XU2-MC



XU2-V01



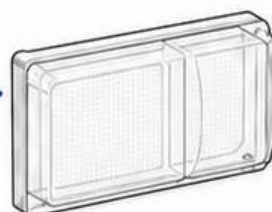
XU2-V01



XU2-K01



XU2-K01



XU2-E01



XU2-E01



XU2-SN

TECHNICAL PARAMETERS

MOTOR PROTECTION CASE FOR THERMAL MAGNETIC CIRCUIT BREAKER

Type	Application	Enclosure protection level	Model	Weight (kg)
Surface mount, double insulation can seal the cover and protect the conductive parts.	For motor circuit breakers with or without accessories (up to 1 with right or left)	IP41	XU2-MC01	0.290
		IP55	XU2-MC02	0.300

MOTOR PROTECTION CASE FOR THERMAL MAGNETIC CIRCUIT BREAKER

Type			Model	Weight (kg)
Locking device (1) with XU2-M control knob (only locked in the "0" position)			XU2-V01	0.075
Spring return			XU2-K01	0.052
Mushroom stop button (1) 40mm, red	Lock up	Loose keys (press Jian n" 455)	XU2-K02	0.095
		Rotation release	XU2-K03	0.052
Sealing means	For DZS 12 MC01	IP 55	XU2-E01	0.012
		IP 55 at temperature <+5°C	XU2-E02	0.012
Center line connection			XU2-N01	0.030

Type	Voltage (V)	Colour	Model	Weight (kg)
Neon Light	110	Green	XU2-SN13	0.019
		Red	XU2-SN14	0.019
	220/240	Green	XU2-SN23	0.019
		Red	XU2-SN24	0.019
	380/440	Green	XU2-SN33	0.019
		Red	XU2-SN34	0.019

(1) With IP55 sealing device.

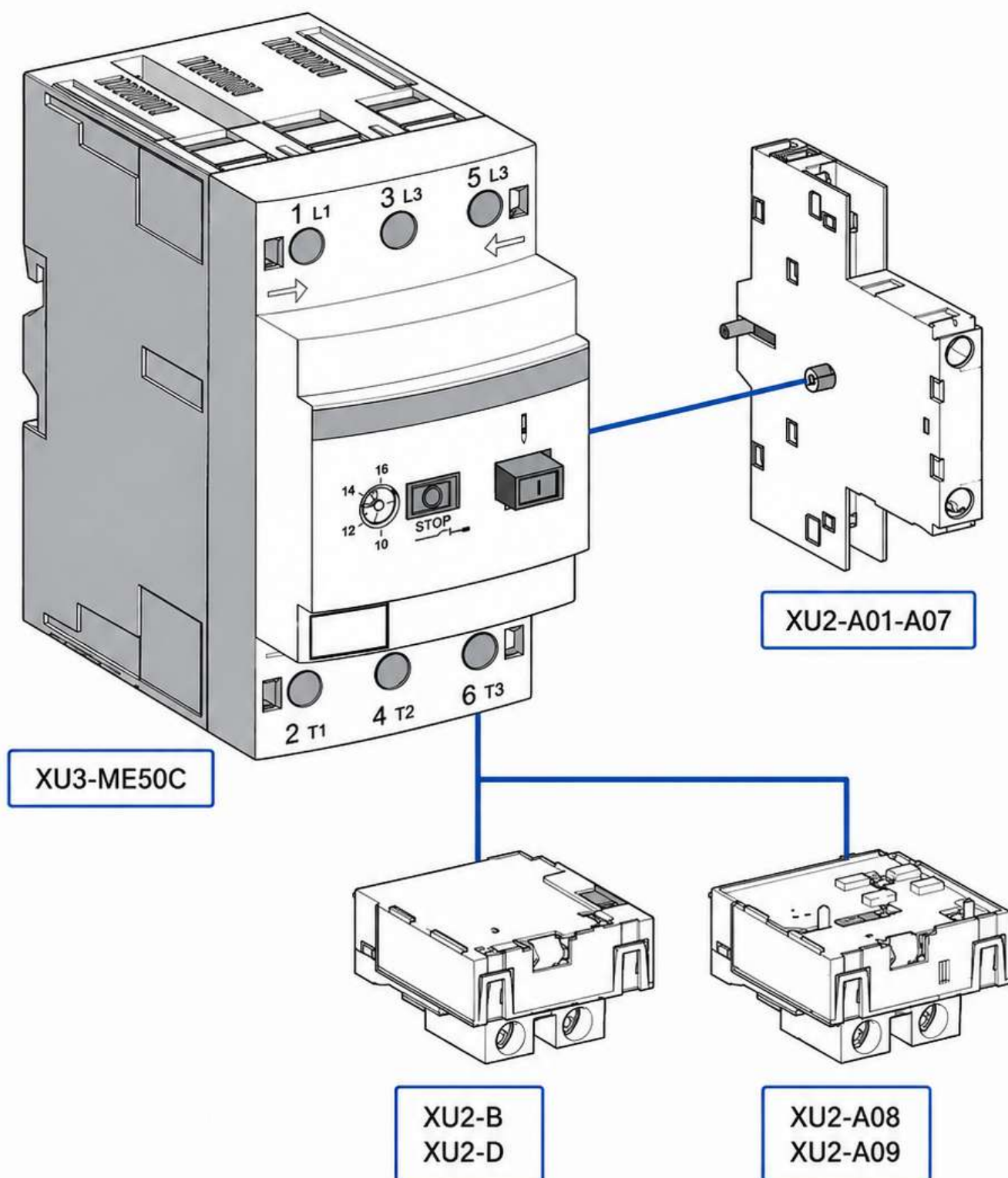
ADDITIONAL CONTACT BLOCK

Type	Install	Contact type	Model	Weight (kg)
Instantaneous auxiliary contact	Side1 block on the right side of the circuit breaker	N/C+N/O	XU2-A01	0.060
		N/O+N/O	XU2-A02	0.060
		N/C+N/O+N/O	XU2-A03	0.070
		N/O+N/O+N/O	XU2-A05	0.070
		N/O+N/O+2 Passive terminal block	XU2-A06	0.070
		N/C+N/O+2 Passive terminal block	XU2-A07	0.030
Fault signal contact	Inside1 inside circuit breaker)	N/C	XU2-A08	0.030
		N/O	XU2-A09	0.030

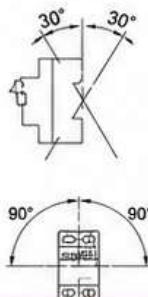
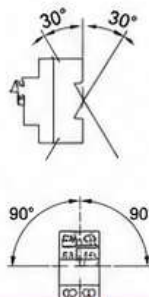
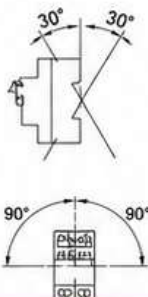
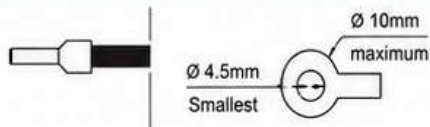
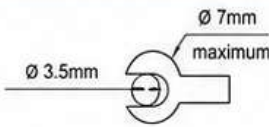
ELECTRIC TRIP

Type	Install	Voltage	Model	Weight (kg)
UV Release	Inside (1 inside circuit breaker)	110-127V 50Hz	XU2-B11	0.070
		220-240V 50Hz	XU2-B22	0.070
		380-415V 50Hz	XU2-B38	0.070
Stunt Release	Inside (1 inside circuit breaker)	110-127V 50Hz	XU2-D11	0.070
		220-240V 50Hz	XU2-D22	0.070
		380-415V 50Hz	XU2-D38	0.070

> WIRING DIAGRAM



Technical Parameters

TYPE		XU2-M20, ME14	XU2-RS32	XU2-LS32	XU3-M50C, ME50C				
Standard compliant		EN 60 947-1,947-2, 947-4-1							
Protective treatment		"Damp heat"	"Damp heat"	"Damp heat"	"TC"				
Impact resistance according to IEC 68-2-27		30g	30g	30g	22g				
Vibration resistance according to IEC 68-2-6		5g(5-150Hz)	5g(5-150Hz)	5g(5-150Hz)	2.5g(0-2.5Hz)				
Ambient storage temperature	°C	-40~+80	-40~+80	-40~+80	-40~+80				
Working temperature	°C	-20~+60	-20~+60	-20~+60	-20~+60				
Temperature compensation	°C	-20~+60	-20~+60	NA.	-20~+60				
Flame retardance according to IEC 695-2-1	°C	960	960	960	960				
Maximum working altitude	m	2000	2000	2000	2000				
Work Location					More suitable for vertical use.				
Number of wires and cross—section		maximum	Smallest	maximum	Smallest	Smallum	Smallest	Smallest	Smallest
Hard wire	mm2	2x6	2x1	2x6	2x1	2x6	2x1	1x35	1x2.5
Flexible wires without terminal	mm2	2x6	2x1.5	2x6	2x1.5	2x6	2x1.5	2x16	1x2.5
Flexible wires with terminal blocks	mm2	2x4	2x1	2x4	2x1	2x4	2x1	2x16	1x2.5
									
Suitable for isolation Meets IEC 947-1 §7-1-6		Suitable	Suitable	Suitable	-				
Tightening torque	Nm	1.7	1.7	1.7	5				
Resistant to mechanical shock	J	0.5	0.5	0.5	0.5				

TECHNICAL PARAMETERS

PARAMETER	UNIT	XU2-M20,ME14	XU2-RS32	XU2-LS32	XU3-M50C,ME50C		
Use category	—	A	A	A	A		
Compliant with IEC 947-2 In accordance with IEC 947-4-1	—	AC-3	AC-3	AC-3	-		
Rated working voltage (Ue) Compliant with IEC 947-2	V	690	690	690	690		
Rated working voltage (Ui) Compliant with IEC 947-2	V	690	690	690	690		
Rated working frequency Compliant with IEC 947-2	Hz	50/60	50/60	50/60	50/60		
Rated impulse withstand voltage (Uimp) Compliant with IEC 947-2	kV	6	6	6	6		
Total energy dissipated at each pole	W	2.5	2.5	1.8	XU3-8025 and below	XU3-8040,8063	XU3-8080
					3	6	8
Mechanical life (C.O,off,on)	C.O.	100000	100000	100000	60000	50000	50000
Electrical life (for AC-3 load)	C.O.	100000	100000	100000	60000	50000	50000
Load level (maximum operating frequency)	C.O./h	50	50	50	50		
Specified load In accordance with IEC 947 -4-1	—	Continuous load	Continuous load	Continuous load			

ELECTRICAL TRIP CHARACTERISTICS

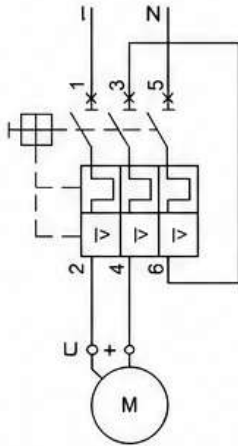
RELEASE TYPE			XU2-AU	XU2-AX	XU2-AS	XU2-B	XU2-D
Rated insulation voltage (Ui) Meets IEC 947-1		V	690	500	690	690	690
Operating Voltage Meets IEC 947 -1		V	0.85-1,1Un	0.85-1,1Un	0.7-1,1Un	0.8-1, 1Un	0.8-1, 1Un
Release voltage		V	0.7-3.5Un	0.7-3.5Un	0.75-0.2Un	0.7-0.35Un	0.7-0.35Un
Pull-in power consumption	VA		12	12	14	12	12
	W		8	8	10.5	7	7
Push power	VA		3.5	3.5	5	7	7
	W		1.1	1.1	1.6	2.5	2.5
Action time Compliant with IEC947-1		ms	From the voltage reaches its operating value until the circuit breaker opens 10			10	10
Load factor			100%	100%	100%	100%	100%
Wiring	Number of wires		1 or 2	1 or 2	1 or 2	1 or 2	1 or 2
	Hard -weird	mm	1-2.5	1-2.5	1-2.5	1-2.5	1-2.5
	Flexible wire without terminal	mm	0.75-2.5	0.75-2.5	0.75-2.5	0.75-2.5	0.75-2.5
	Flexible conductor with terminal	mm	0.75-1.5	0.75-1.5	0.75-1.5	0.75-2.5	0.75-2.5
Tightening torque		N.M	1.4max	1.4max x	1.4max	1.2	1.2
Mechanical life (C.O: closed /opened)		C.O.	100000	100000	100000	50% of circuit breaker mechanical life	50% of circuit breaker mechanical life



➤ WIRING DIAGRAM

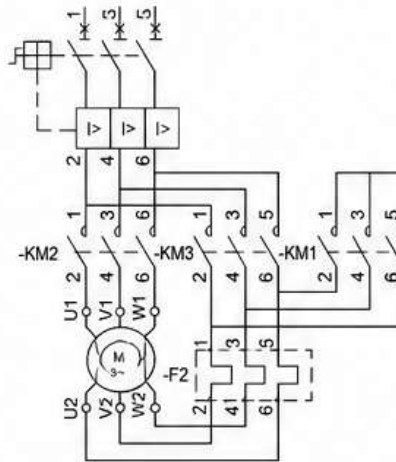
Single—phase or DC motor

RS32;
XU2— M20, ME14, RS32;
XU3— M50C, ME50C

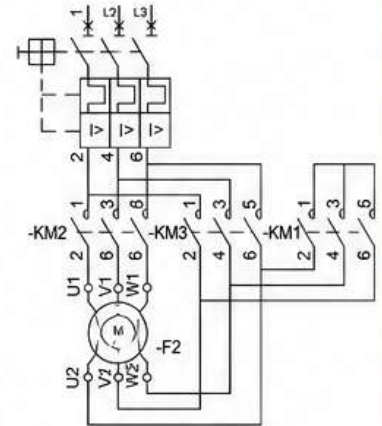


Star *Delta Launch

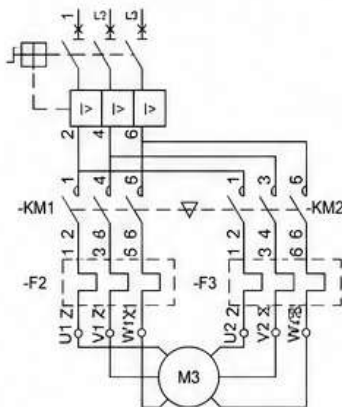
XU2 – LS32



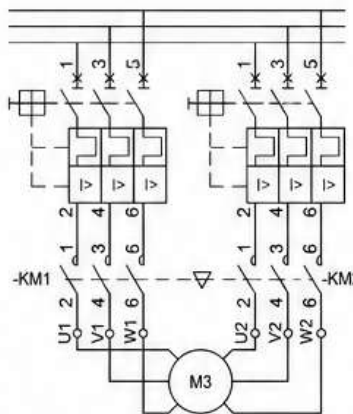
XU2 - M20, ME14,
XU3 – M50C, ME05



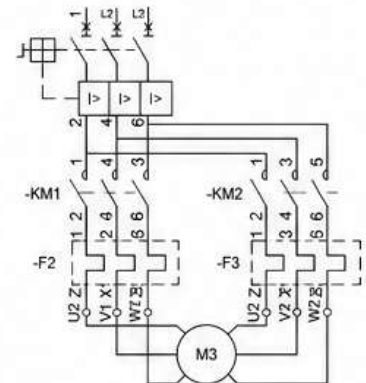
Two -speed motor with separate Windings on the same power source 2 XU2 – LS32



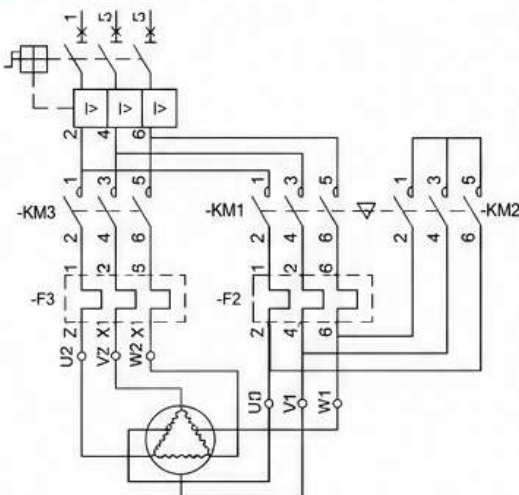
2 Power XU2 – M20, ME14, RS32; XU3 – M50C, ME50C



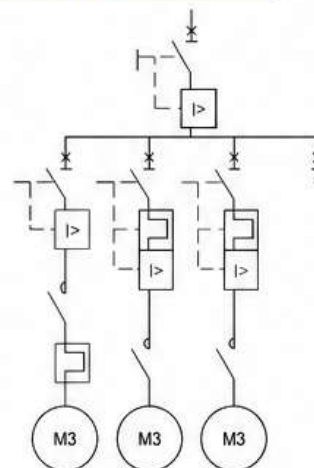
Partial winding motor XU2 – LS32



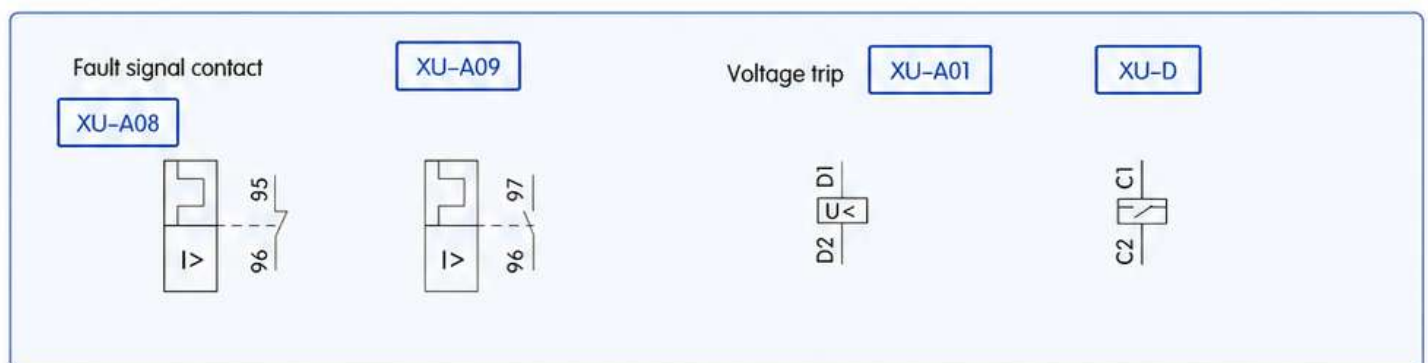
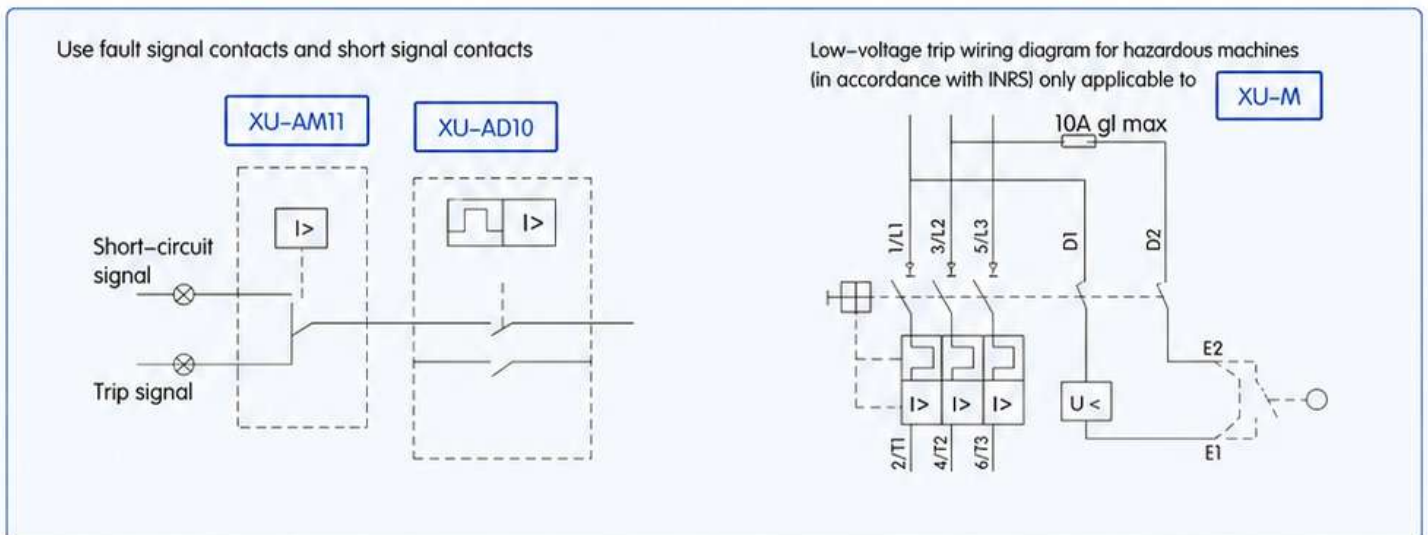
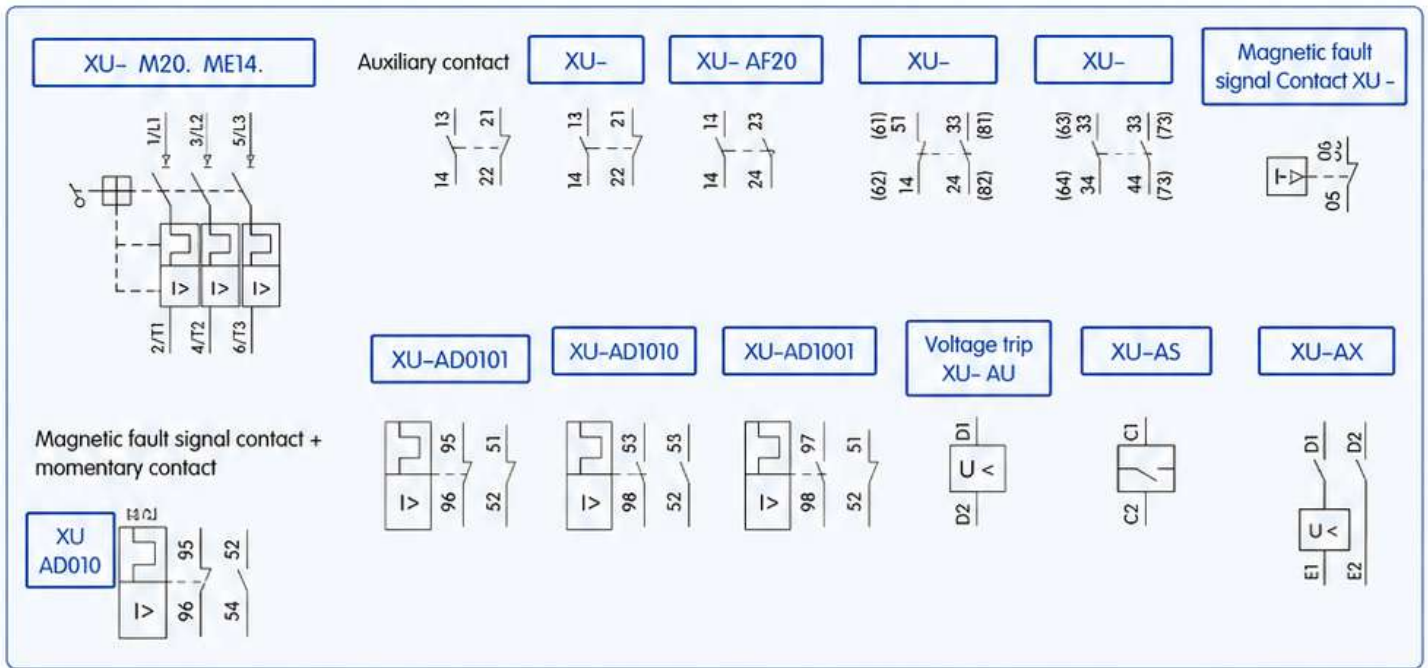
Pole change XU2-LS32



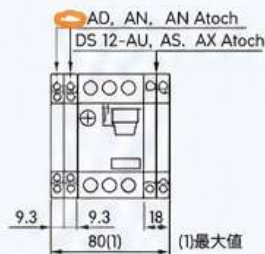
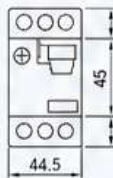
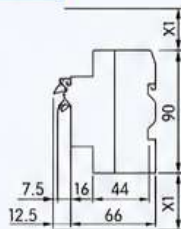
Has completed protection XU2 – LS32



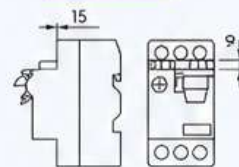
► WIRING DIAGRAM



XU- RS32



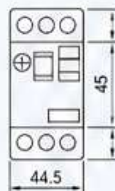
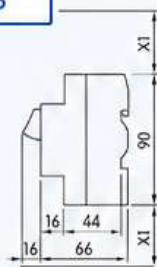
XU-AE



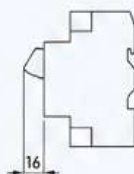
XU-RS32

X1 Clearance =40mm, $U_e \leq 440V$

XU-M20, ME13

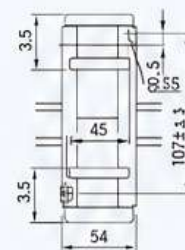
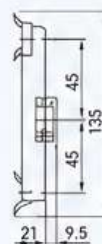


XU-AX



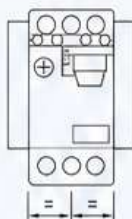
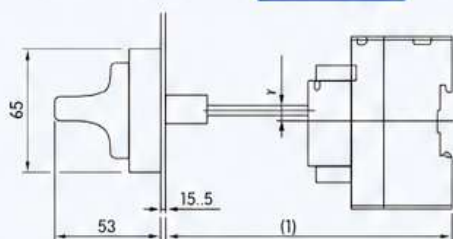
AX-AF

Mounting plate

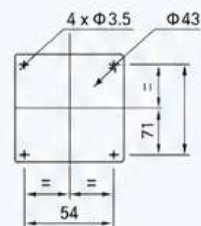
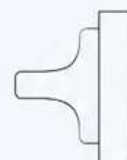


Installing a wrench on the door

XU-AP03



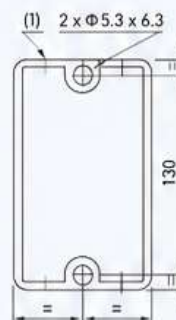
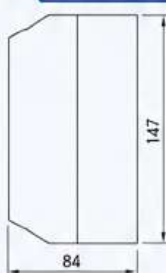
Drilling holes in the door



(1) The minimum value is 150, and the large value is 290

Surface mount housing

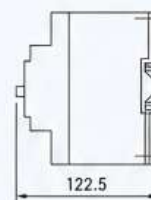
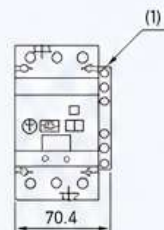
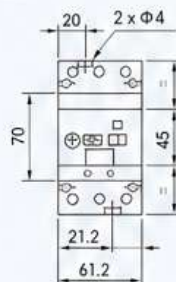
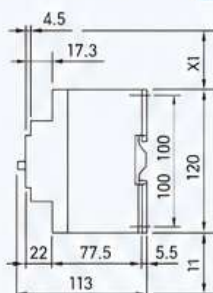
XU-MC0



Motor circuit breaker

XU-M50C, ME50C

On AM1-DF200 or AM1-ED201 rail



X1=Clearance(ISC maxi)

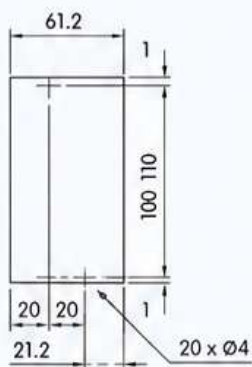
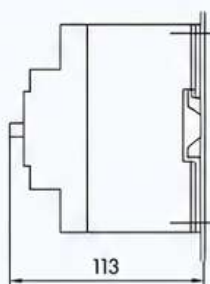
40mm, Suitable for $U_e < 500V$
50mm, Suitable for $U_e < 690V$

XU- A01 to A07module

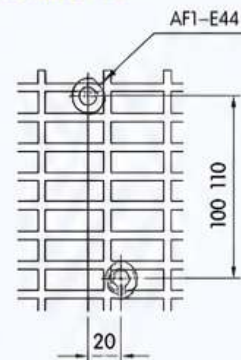
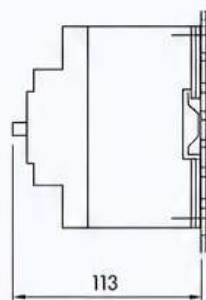


► WIRING

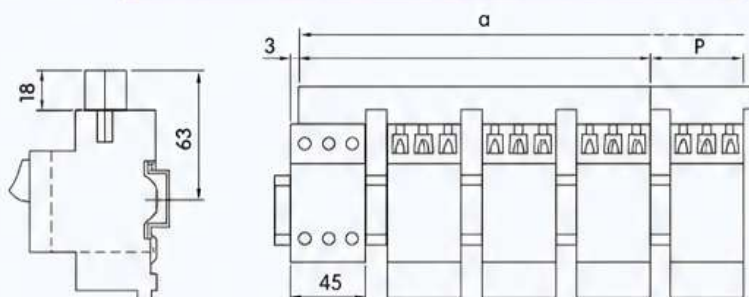
Mounted on the panel



On perforated mounting plate AM1-PA

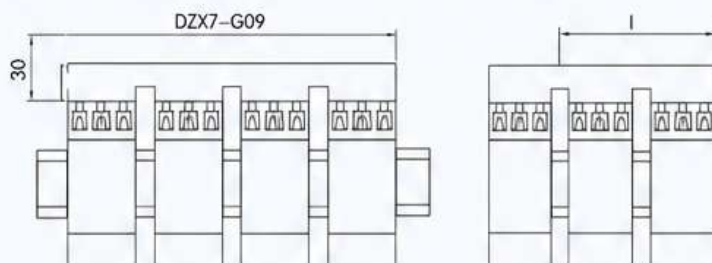


Busbar G: XU-G445, XU-G4545, XU-G472, with terminal block xu-G05



XU- G445(4*45mm)		P	
XU- G454(4*54mm)	179	45	
XU- G472(4*72mm)	206	54	
	260	72	
Number of branches	A		
	5	6	7 8

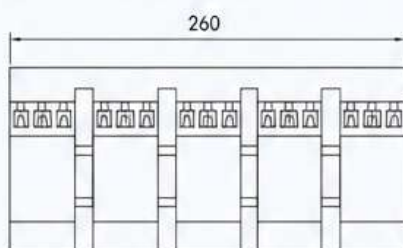
Busbar XU2 -G *** with terminal block XU2 – G09



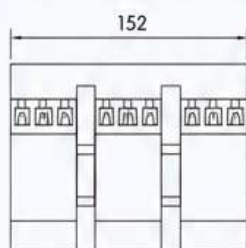
Busbar XU2- G245, XU2- G254, XU2- G272

XU2- G245 (2*45mm)	l
XU2- G245 (2*54mm)	89
XU2- G272 (2* 72mm)	98
	116

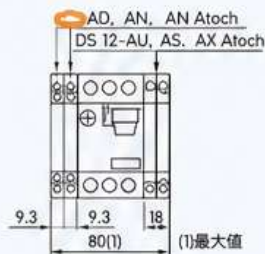
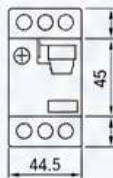
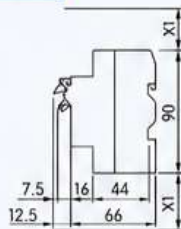
Busbar XU2 – G554



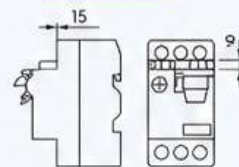
Busbar XU2 – G354



XU- RS32



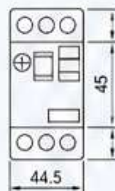
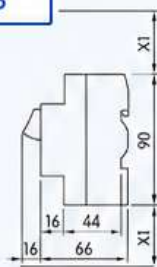
XU-AE



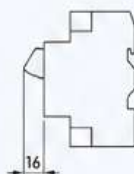
XU-RS32

X1 Clearance =40mm, $U_e \leq 440V$

XU-M20, ME13

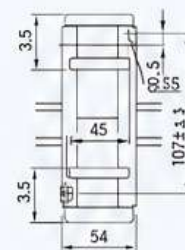
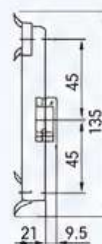


XU-AX



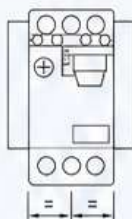
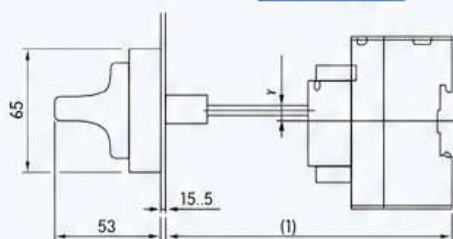
AX-AF

Mounting plate

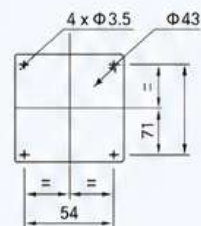
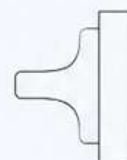


Installing a wrench on the door

XU-AP03



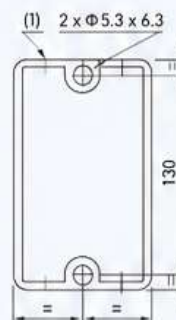
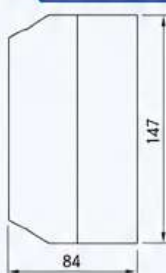
Drilling holes in the door



(1) The minimum value is 150, and the large value is 290

Surface mount housing

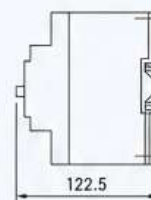
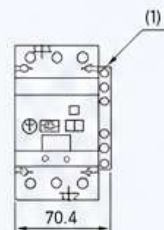
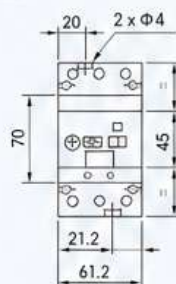
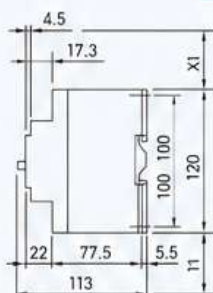
XU-MC0



Motor circuit breaker

XU-M50C, ME50C

On AM1-DF200 or AM1-ED201 rail



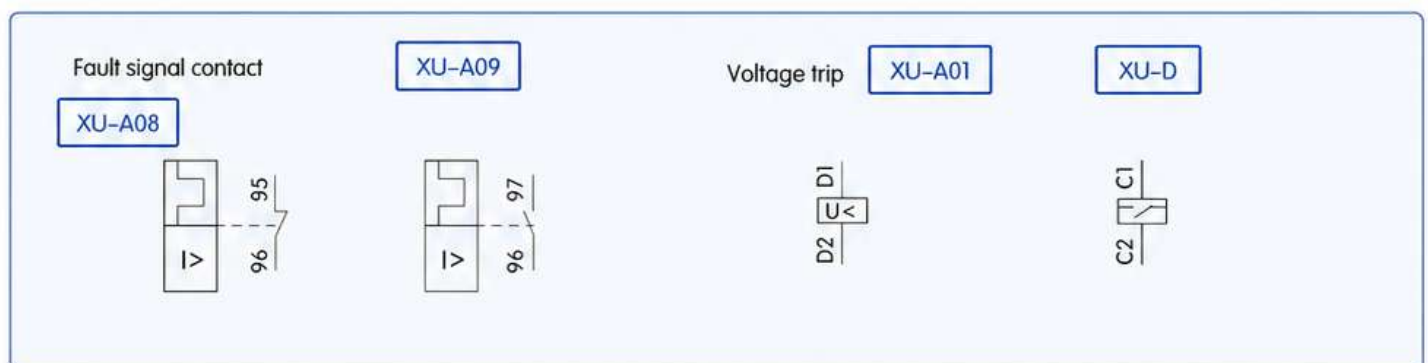
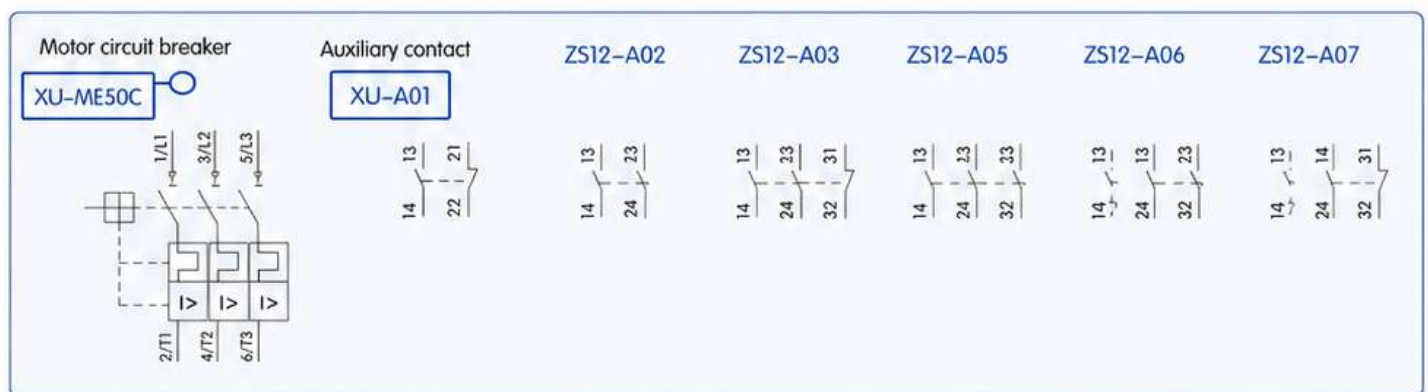
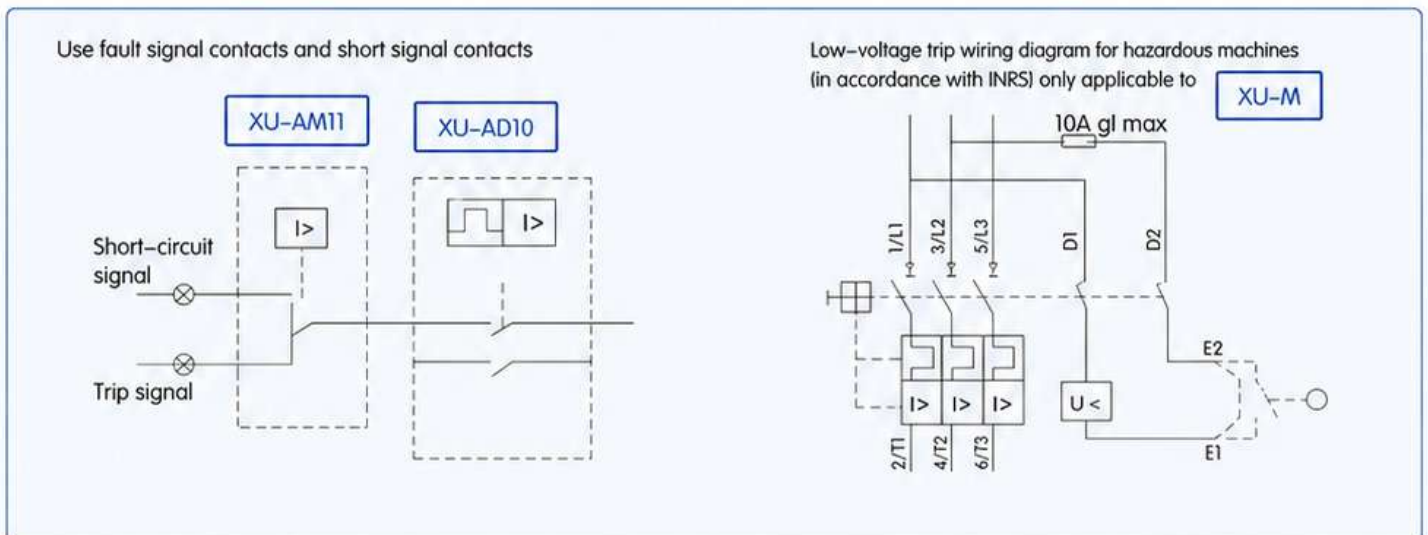
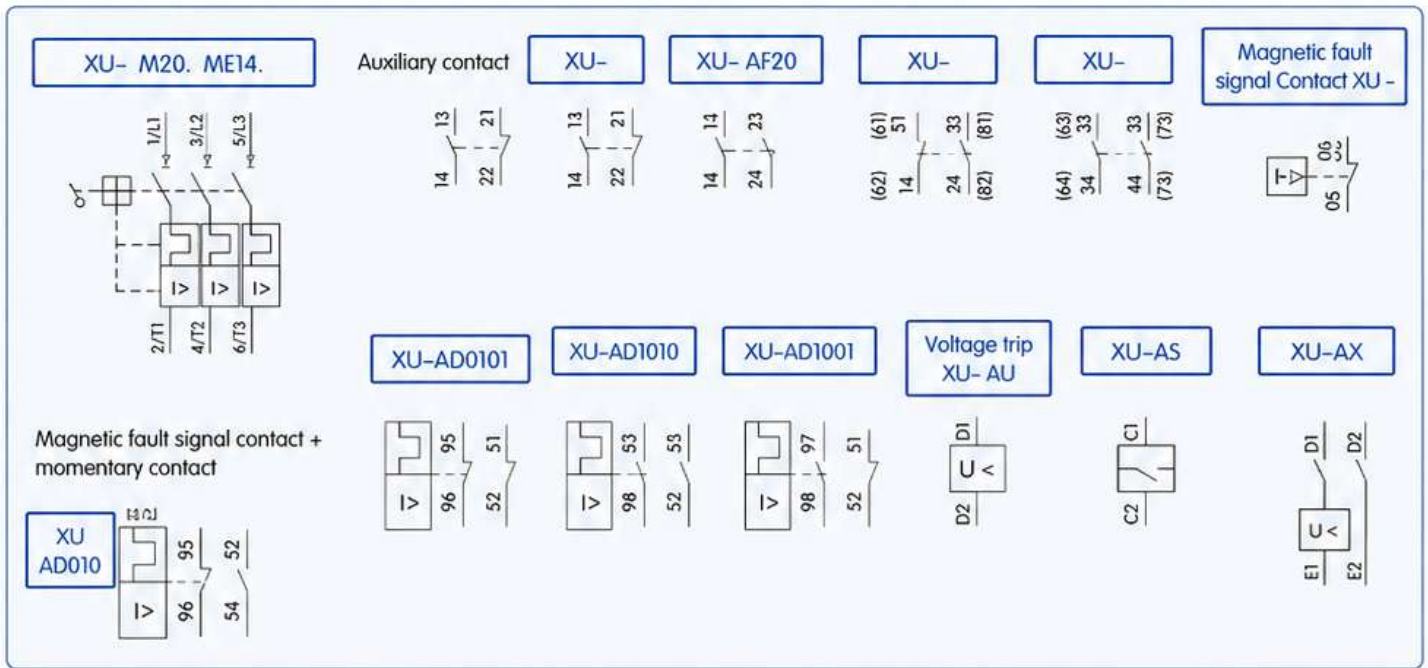
X1=Clearance(ISC maxi)

40mm, Suitable for $U_e < 500V$
50mm, Suitable for $U_e < 690V$

XU- A01 to A07module



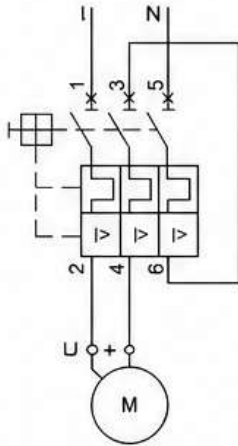
► WIRING DIAGRAM



➤ WIRING DIAGRAM

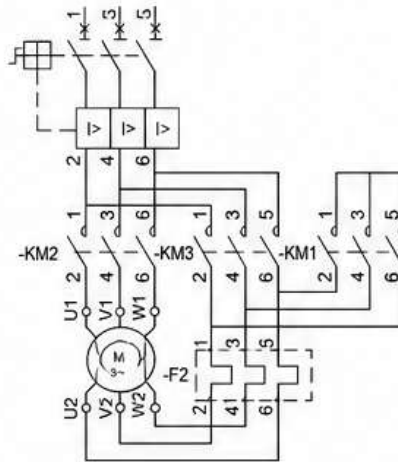
Single—phase or DC motor

RS32;
XU2— M20, ME14, RS32;
XU3— M50C, ME50C

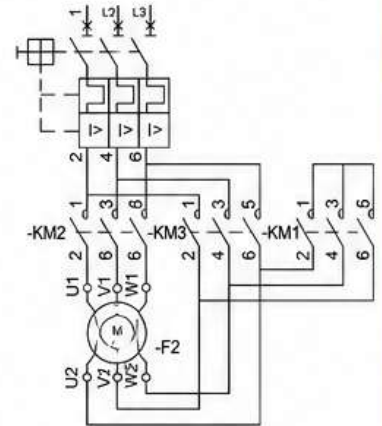


Star *Delta Launch

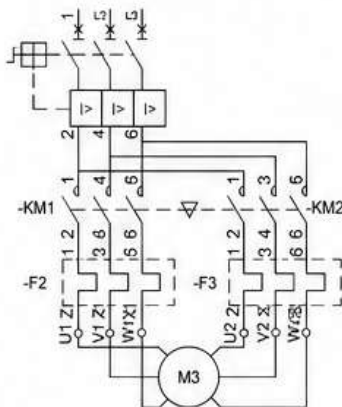
XU2 – LS32



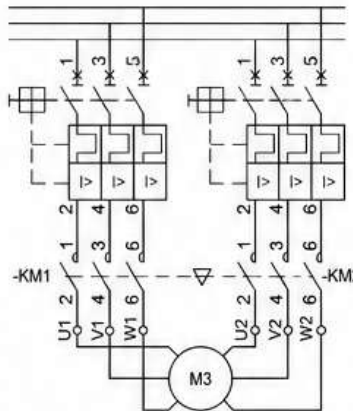
XU2 - M20, ME14,
XU3 – M50C, ME05



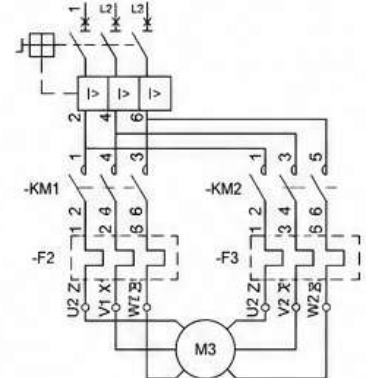
Two -speed motor with separate Windings on the same power source 2 XU2 – LS32



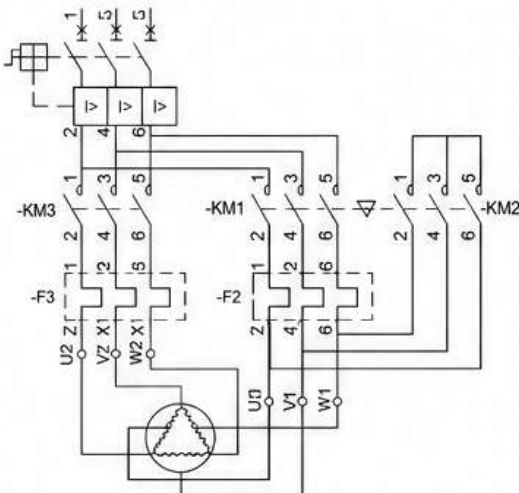
2 Power XU2 – M20, ME14, RS32; XU3 – M50C, ME50C



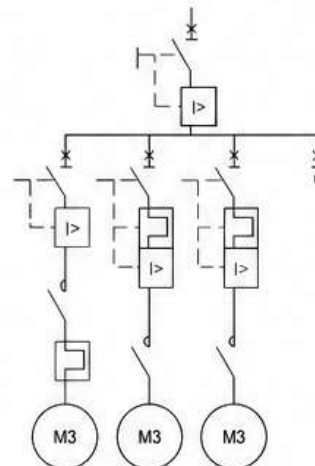
Partial winding motor XU2 – LS32



Pole change XU2-LS32



Has completed protection XU2 – LS32





XUD

Manual Motor Starters

XUD MANUAL MOTOR STARTERS

Features

Integral Function

- ▶ Width 45mm up to 63A
- ▶ With an adjustable knob for setting full-load current of the motor

Safety

- ▶ IP-20 finger protection terminals
- All live parts are properly guarded and cannot be touched with hands.

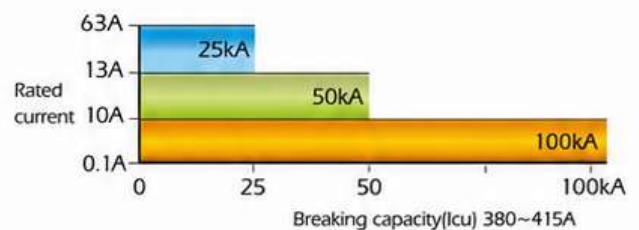
Green Design

- ▶ Recyclable thermoplastic materials are used in the plastic parts
- ▶ Cadmium-free contact

Wide Variety of Accessories

- ▶ Under voltage trip UVT
- ▶ Shunt trip SHT
- ▶ Side + top mounted auxiliary contact block

High Performance



- ▶ ON/OFF endurance
- ▶ Mechanical Endurance life
- max. 100,000 (XUD-32S(R))
- max. 50,000 (XUD-63S)

Manual Motor Starters

with short-circuit protection & thermal overload protection, designed in the structure of Thermal relay

Function of MCCB

- ▶ Short circuit protection
- ▶ Overload protection
- ▶ Protection of circuits



Function of Relay

- ▶ Overload protection
- ▶ Phase failure protection
- ▶ Rated adjustable current range
- ▶ Ambient temperature compensation



Space Saving

Installation space

MCCB+TOR
100%

Manual motor starter

43% (saving 57%)

High Breaking Capacity

Standard breaking capacity

25, 50, 100kA, 400V AC

Short Current Protection Device (SCPD)

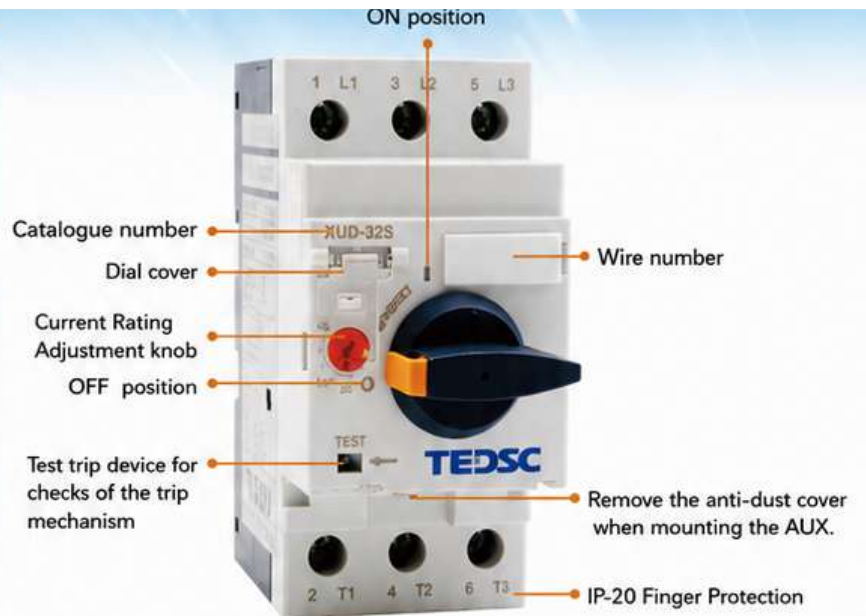
IEC 60947-4-1,
Type 1, 2

Comply With Certificates

IEC 60947-1
IEC 60947-2
IEC 60947-4-1
UL 60947-4-1
CE RoHS

XUD MANUAL MOTOR STARTERS

The XUD Type MMSs have functions of MCCB, which provides short circuit protection & transmission line protection & phase failure protection, and also have functions of thermal relay, which has adjustable rated current & overload protection & temperature compensation that negates the temperature effect. Finally, Modular design is more convenient for production and application.



Features

- ▶ Adjustable overload protection
- ▶ Short circuit protection
- ▶ Phase failure protection
- ▶ Magnetic trip current 13 times I_e

Applications

Machine tools, Light Industry Machinery (spinning mill or ceramics factory), Conveyor Systems, Petrochemical plant, Pharmaceutical plant sewage treatment plant, Building automatic control, etc...

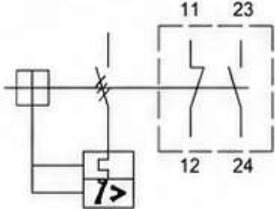
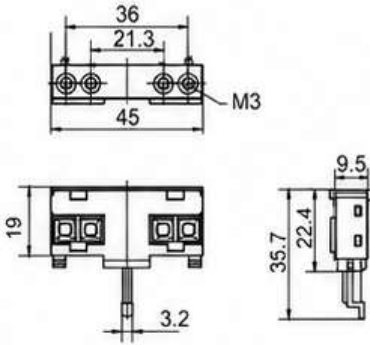
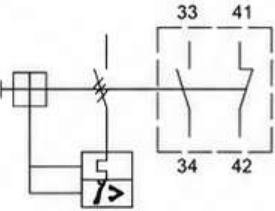
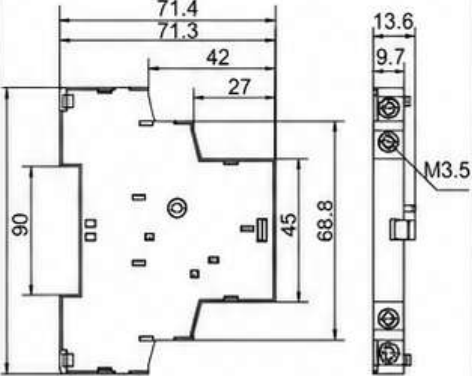
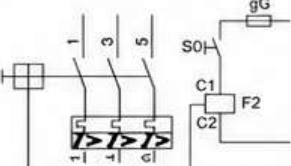
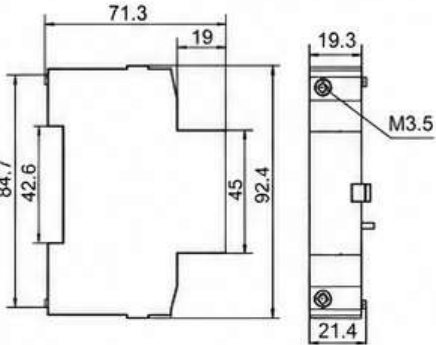
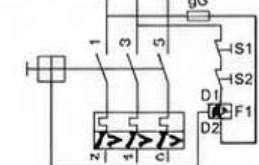
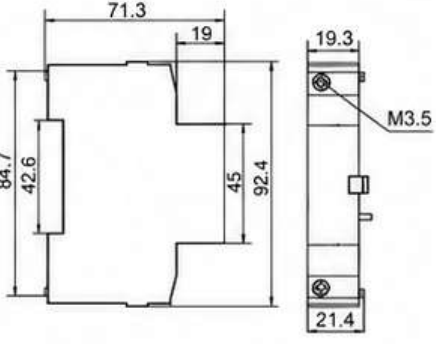
Accessories



SPECIFICATIONS

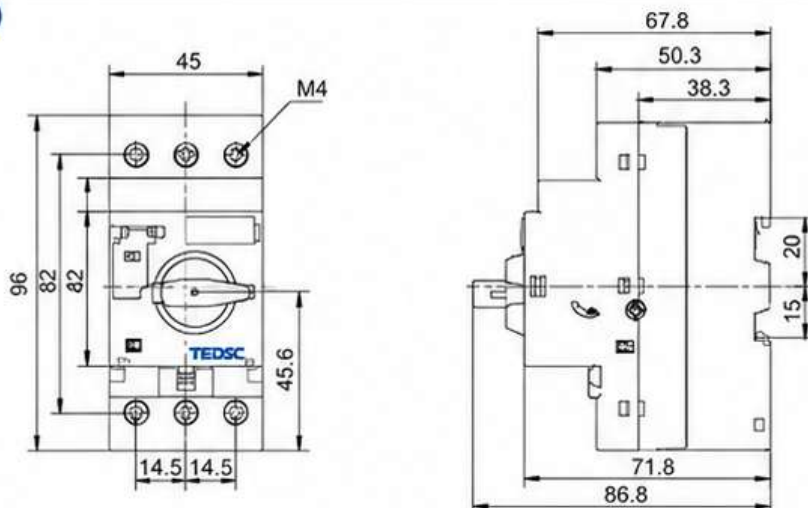
Catalogue number		XUD-32S (R)						XUD-63S					
Frame size		32						63					
													
Rated operational voltage (Ue)		690 VAC						690 VAC					
Rated Insulation voltage (Ui)		1000 VAC						1000 VAC					
Rated Frequency		50 / 60Hz						50 / 60Hz					
Conformity to Standards	Setting Current Range (means max. Current Ie(A)	Rated breaking capacity (kA)											
		220-240		380-415		600-690		220-240		380-415		600-690	
		Icu	Ics	Icu	Ics	Icu	Ics	Icu	Ics	Icu	Ics	Icu	Ics
IEC 60947-2 EN 60947-2 Icu/Ics	0.1-0.16 (0.16)	100	100	100	100	100	100	—	—	—	—	—	—
	0.16-0.25 (0.25)	100	100	100	100	100	100	—	—	—	—	—	—
	0.25-0.4 (0.4)	100	100	100	100	100	100	—	—	—	—	—	—
	0.4-0.63 (0.63)	100	100	100	100	100	100	—	—	—	—	—	—
	0.63-1.0 (1)	100	100	100	100	100	100	—	—	—	—	—	—
	1.0-1.6 (1.6)	100	100	100	100	100	100	—	—	—	—	—	—
	1.6-2.5 (2.5)	100	100	100	100	3	3	—	—	—	—	—	—
	2.5-4.0 (4)	100	100	100	100	3	3	—	—	—	—	—	—
	4-6 (6)	100	100	100	100	3	3	—	—	—	—	—	—
	5-8 (8)	100	100	100	100	3	3	—	—	—	—	—	—
	6.3-10 (10)	100	100	50	38	3	3	100	100	100	100	4	3
	9-13 (13)	100	100	50	38	3	3	100	100	50	38	4	3
	11-16 (16)	100	100	25	19	3	3	100	100	25	19	4	3
	14-20 (20)	50	50	25	19	3	3	50	38	25	19	4	3
	19-25 (25)	50	50	25	19	3	3	—	—	—	—	—	—
	18-26 (26)	—	—	—	—	—	—	50	38	25	19	4	3
	22-32 (32)	—	—	—	—	—	—	50	38	25	19	4	3
	24-32 (32)	50	50	25	19	3	3	—	—	—	—	—	—
28-40 (40)	—	—	—	—	—	—	50	38	25	19	4	3	
35-50 (50)	—	—	—	—	—	—	50	38	25	19	4	3	
45-63 (63)	—	—	—	—	—	—	50	38	25	19	4	3	
Overall dimensions (mm)	W	45						54					
	H	96						130					
	D	87						126					
Weight (g)		330						850					
Accessories	Under voltage trip UVT	●						●					
	Shunt trip SHT	●						●					
	Side mounted auxiliary switch	●						●					
	Top mounted auxiliary switch	●						●					
Temperature compensation		YES						YES					
Phase Loss protection		YES						YES					
Protection degree		IP 20						IP 20					
Mechanical endurance (Ops)		100,000						50,000					
Electrical endurance (Ops)		100,000						25,000					
Operating environmental temperature		-25~ +60°C						-25~ +60°C					
Storage environmental temperature		-40 ~ +80°C						-40 ~ +80°C					
Altitude (m)		2,000						2,000					
Rated impulse withstand voltage (Uimp)		6kV						6kV					
Approvals		CCC/CB/UL						CC/CB/UL					

Accessories

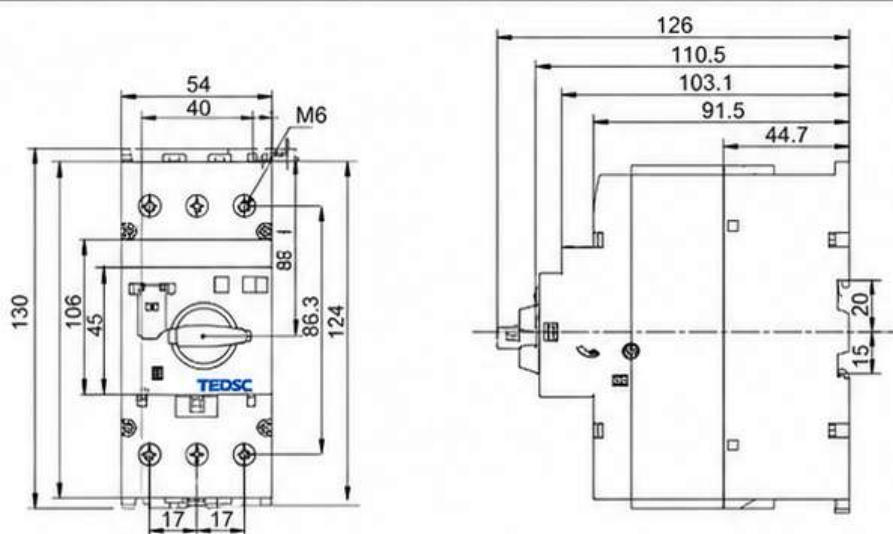
Catalogue number	Features/wiring diagram	Contact configuration	Rated insulation voltage (V)	weight (g)	Dimensions (mm)
XUD-X-T Top mounted auxiliary switch 	The contactor is related to XUD's ON/OFF operation  XUD-X-T (1b 1a)	1a1b or 1a or 1b	—	85	
XUD-X-S Side mounted auxiliary switch 	- The contactor is related to XUD's ON/OFF operation - The right side can be stacked, it can be installed up to two auxiliary contacts blocks  XUD-X-S (1a 1b)	1a1b or 2a or 2b	—	196	
XUD-S Shunt trip 	The device is used for remote tripping of XUD note : - This device can't be used with the under voltage trip device at the same time - Voltage signal to XUD can't exceed 10 seconds  XUD-S	—	24V 110V 220V 380V 440V	130	
XUD-U Under voltage trip 	This device trips the XUD when the control voltage drops below a tripping threshold. note : This device can't be used with the shunt trip device at the same time  XUD-U	—	24V 110V 220V 380V 440V	132	

Dimensions

XUD-32S(R)

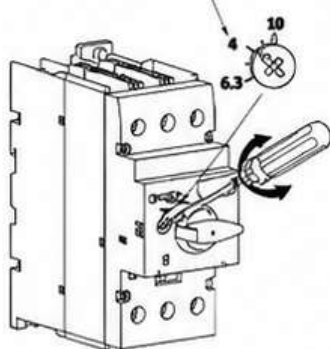


XUD-63S



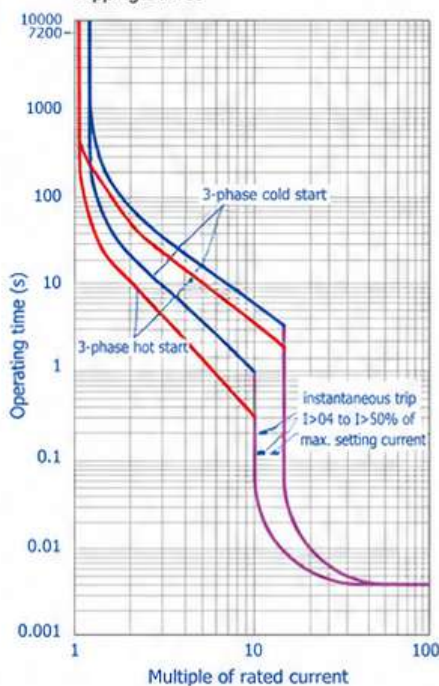
Tripping Curves

Current Rating
Adjustment knob
(Overload protection)



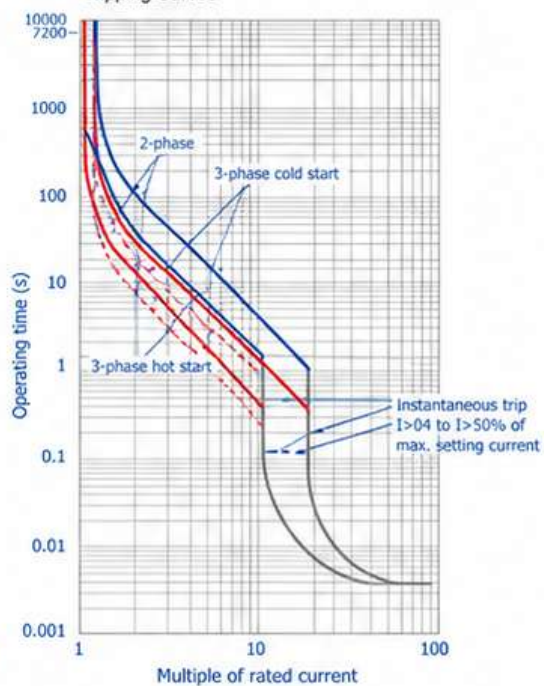
XUD-32S(R)

Tripping Curves



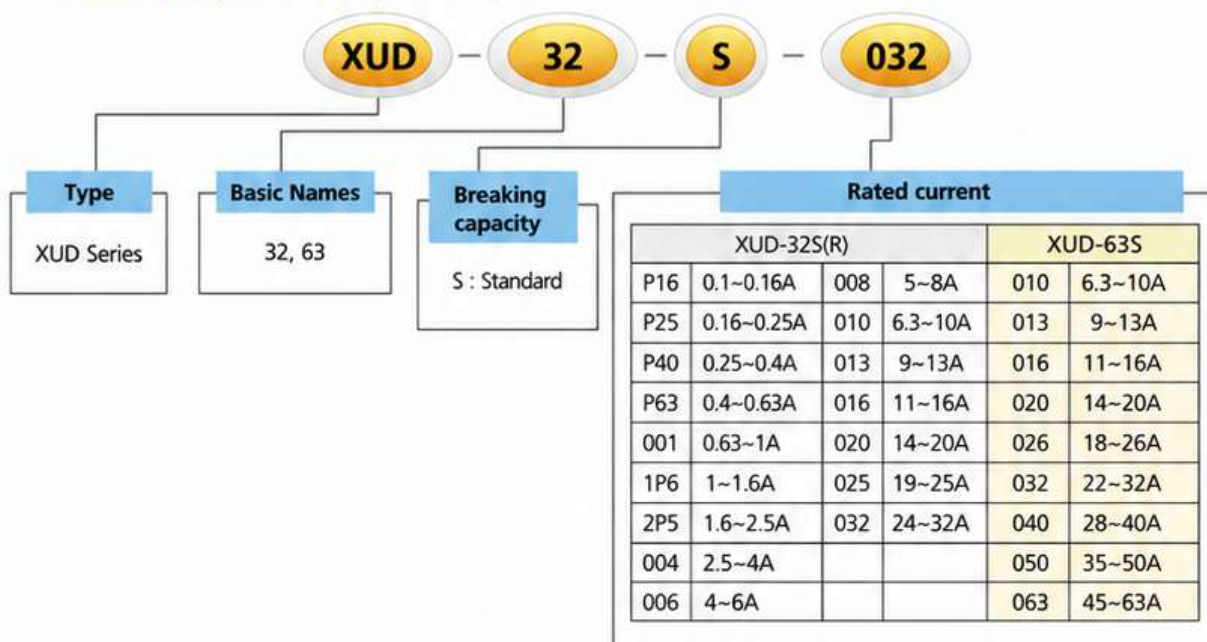
XUD-63S

Tripping Curves

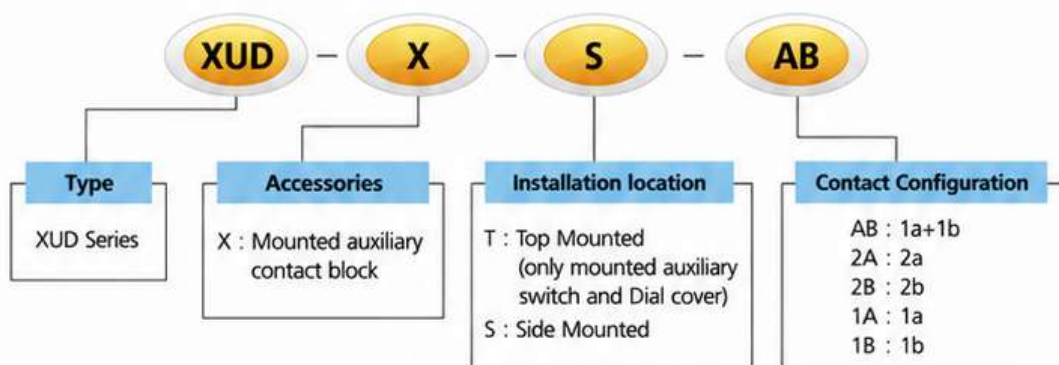


● Type Number Description

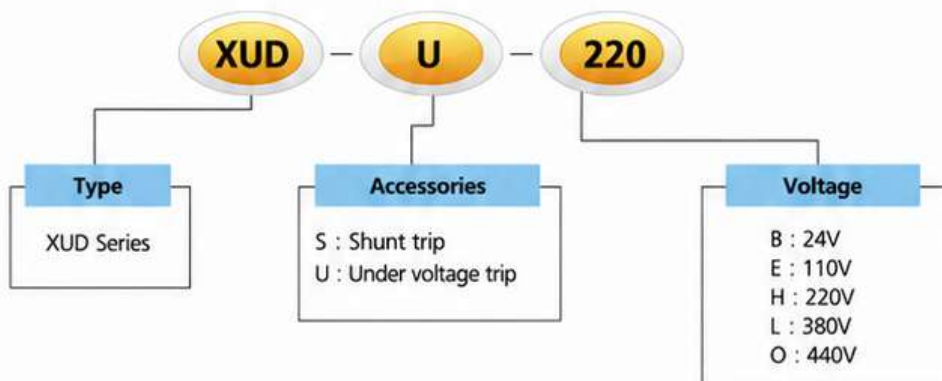
▸ XUD-32S(R) · XUD-63S (Noumenon)



▸ XUD-32S(R) · XUD-63S – auxiliary contact block



▸ XUD-32S(R) · XUD-63S – Under voltage trip · Shunt trip



Note : Frequency of Undervoltage trip and Shunt trip device is 50/60 Hz

Product Horsepower

► XUD-32S(R)

Standard	Rated Power Capacities (A)	Setting Current Range (A)	Single phase (HP)		Three phase (HP)		
			110-120V	220-240V	220-240V	440-480V	550-600V
UL 60947-4-1	0.16	0.1-0.16	—	—	—	—	—
	0.25	0.16-0.25	—	—	—	—	—
	0.4	0.25-0.4	—	—	—	—	—
	0.63	0.4-0.63	—	—	—	—	—
	1	0.63-1.0	—	—	—	—	1/2
	1.6	1.0-1.6	—	1/10	—	3/4	3/4
	2.5	1.6-2.5	—	1/6	1/2	1	1 1/2
	4	2.5-4	1/8	1/3	3/4	2	3
	6	4-6	1/4	1/2	1 1/2	3	5
	8	5-8	1/3	1	2	5	5
	10	6.3-10	1/2	1 1/2	3	5	7 1/2
	13	9-13	1/2	2	3	7 1/2	10
	16	11-16	1	2	5	10	10
	20	14-20	1 1/2	3	5	10	15
	25	19-25	2	—	7 1/2	15	20
	32	24-32	2	5	10	20	30

► XUD-63S

Standard	Rated Power Capacities (A)	Setting Current Range (A)	Single phase (HP)		Three phase (HP)		
			110-120V	220-240V	220-240V	440-480V	550-600V
UL 60947-4-1	10	6.3-10	1/2	1 1/2	3	5	7 1/2
	13	9-13	1/2	2	3	7 1/2	10
	16	11-16	1	2	5	10	10
	20	14-20	1 1/2	3	5	10	15
	26	18-26	2	3	7 1/2	15	20
	32	22-32	2	5	10	20	30
	40	28-40	3	7 1/2	10	30	30
	50	35-50	3	10	15	30	40
	63	45-63	5	10	20	40	60

XUNWO

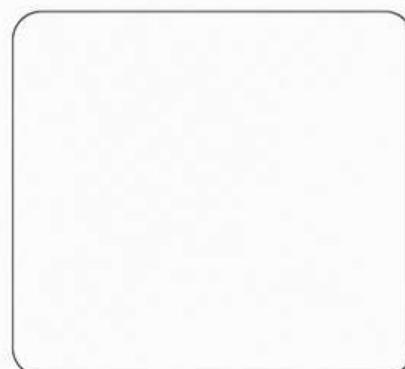
XUNWO- Electric

Zhejiang Xunwo Electric Co., Ltd.
& WENZHOU XUNWO IMP & EXP Co. Ltd.

Building 4, South Area, Safety & Emergency Industrial Park,
No. 1527, Oucai Road, Kunpeng Street,
Wenzhou Marine Economic Development Zone,
Wenzhou City, Zhejiang Province, China

Email: marketing@xunwo-electric.com

Website: www.xunwo-electric.com



Product Range Overview

Complete Motor Starter & Protection Solutions —
Engineered for Global Industrial Applications



XU2 Series

Motor Protection Circuit Breaker

- A** Range: 16A to 100A
- ⚡** Voltage: Up to 690V
- 🛡️** Standard: IEC 60947-2
- CE** CE | CCC Certified

→ See Page **4**



ELX Series

Magnetic Contactor

- A** Range: 0.1A – 100A
- 🔌** Coil: AC/DC/AC-DC
- 🌡️** Temp: -50°C to +70°C
- 🛡️** Standard: IEC 60947-4-1
- CE** CE | CCC | UL Certified

→ See Page **8**



XUR2 Series

Thermal Overload Relay

- A** Range: 0.1A – 93A
- 🔄** Auto & Manual Reset
- 🛡️** Standard: IEC 60947-4-1
- CE** CE | CCC Certified

→ See Page **12**

Complete Motor Starter Solution

1 MPCB (XU2)

Short Circuit
Protection



2 CONTACTOR (ELX)

Motor Switching



3 OVERLOAD RELAY (XUR2)

Overload &
Phase Failure



**COMPLETE
MOTOR
PROTECTION**



All XUNWO products are 100% manufactured in-house at our Wenzhou, China facility and globally certified for industrial applications.



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