

## ATNSX Power Source Changeover System

ATNSX Automatic power source changeover system includes  
 2 Circuit Breaker Compact NSX 3P or 4P  
 Electrical operated mechanism  
 Interlock switch for manual/automatic selection mode  
 isolated power module  
 Intelligent controller

Bộ tự động chuyển đổi nguồn ATNSX gồm có:  
 2 CB Compact NSX 3P hoặc 4P  
 Cơ cấu đóng ngắt CB hoạt động bằng điện  
 Cơ cấu chọn chế độ tự động/ bằng tay  
 Bộ nguồn cách ly  
 Bộ điều khiển tự động thông minh

Unit price (incl.VAT) in VND

### Automatic Transfer Switch new generation (ATNSX) 100 to 630A

Icu (380/415VAC)	Rating (A)	Reference 3P	Unit Price	Reference 4P	Unit Price
<b>Type A (2 normal sources)</b>					
36kA	100	LV429630ATNSX12A	39,336,000	LV429640ATNSX12A	44,449,900
	160	LV430630ATNSX12A	42,383,000	LV430640ATNSX12A	50,164,400
	250	LV431630ATNSX12A	48,636,700	LV431640ATNSX12A	67,584,000
50kA	400	LV432693ATNSX12A	73,057,600	LV432694ATNSX12A	84,223,700
	630	LV432893ATNSX12A	100,532,300	LV432894ATNSX12A	113,186,700
<b>Type B (1 normal source &amp; 1 generator)</b>					
36kA	100	LV429630ATNSX22A	44,253,000	LV429640ATNSX22A	46,566,300
	160	LV430630ATNSX22A	46,514,600	LV430640ATNSX22A	58,361,600
	250	LV431630ATNSX22A	53,719,600	LV431640ATNSX22A	74,341,300
50kA	400	LV432693ATNSX22A	80,361,600	LV432694ATNSX22A	92,647,500
	630	LV432893ATNSX22A	110,587,400	LV432894ATNSX22A	121,201,300



**A controller (built-in type)**  
 Bộ điều khiển loại A (gắn liền)



**B controller (external type)**  
 Bộ điều khiển loại B (gắn rời bên ngoài)



Automatic source changeover system includes :

- 2 Circuit Breaker 3P or 4P electrical operated
- 2 Motor Mechanism
- 2 shunt trip coil
- Auxiliary switches, Alarm switch
- Complete assembly mechanical interlock
- Electrical interlock (IVE) (optional for Compact NS 630 to 1600)
- Automatic controller (optional)

Bộ tự động chuyển đổi nguồn gồm có:

- 2 CB 3P hoặc 4P đóng cắt bằng điện
- 2 cơ cấu motor gắn vào CB
- 2 cuộn dây cắt
- Tiếp điểm phụ, tiếp điểm báo động
- Khoá liên động cơ khí
- Khoá liên động điện (IVE) (tuỳ chọn đối với Compact NS 630 đến 1600)
- Bộ điều khiển tự động (tuỳ chọn)



Unit price (Incl.VAT) in VND

**Automatic Source Changeover Compact NSX 100 to 630A, including: mechanical interlock plate + electrical interlock IVE**

**Compact NSX 100F/250F/400N/630N**

Icu (380/415VAC)	Rating (A)	Reference 3P	Unit Price	Reference 4P	Unit Price
36kA	100	ATSNSX010F3FTM	60,445,000	ATSNSX010F4FTM	65,400,500
	160	ATSNSX016F3FTM	65,452,200	ATSNSX016F4FTM	72,018,100
	250	ATSNSX025F3FTM	74,291,800	ATSNSX025F4FTM	82,898,200
50kA	400	ATSNSX040N3FMI2	118,534,900	ATSNSX040N4FMI2	127,066,500
	630	ATSNSX063N3FMI2	131,368,600	ATSNSX063N4FMI2	142,755,800

**Compact NSX100/250/400/630H**

Icu (380/415VAC)	Rating (A)	Reference 3P	Unit Price	Reference 4P	Unit Price
70kA	100	ATSNSX010H3FTM	62,597,700	ATSNSX010H4FTM	66,961,400
	160	ATSNSX016H3FTM	69,819,200	ATSNSX016H4FTM	74,476,600
	250	ATSNSX025H3FTM	79,693,900	ATSNSX025H4FTM	89,862,300
400	400	ATSNSX040H3FMI2	123,999,700	ATSNSX040H4FMI2	131,697,500
	630	ATSNSX063H3FMI2	137,517,600	ATSNSX063H4FMI2	155,820,500

**Automatic Source Changeover Compact NS 630 to 1600A, including mechanical cable interlock**

**Compact NS 630/1600N**

Icu (380/415VAC)	Rating (A)	Reference 3P	Unit Price	Reference 4P	Unit Price
50kA	630b	ATSNS06bN3E2	208,901,000	ATSNS06bN4E2	240,075,000
	800	ATSNS080N3E2	216,676,900	ATSNS080N4E2	251,982,500
	1000	ATSNS100N3E2	222,278,100	ATSNS100N4E2	265,453,100
	1250	ATSNS125N3E2	266,399,100	ATSNS125N4E2	322,540,900
	1600	ATSNS160N3E2	295,963,800	ATSNS160N4E2	363,616,000

**Compact NS 630/1600H**

Icu (380/415VAC)	Rating (A)	Reference 3P	Unit Price	Reference 4P	Unit Price
70kA	630b	ATSNS06bH3E2	221,179,200	ATSNS06bH4E2	261,955,100
	800	ATSNS080H3E2	226,441,600	ATSNS080H4E2	270,399,800
	1000	ATSNS100H3E2	243,642,300	ATSNS100H4E2	284,246,600
	1250	ATSNS125H3E2	283,699,900	ATSNS125H4E2	337,747,300
	1600	ATSNS160H3E2	316,488,700	ATSNS160H4E2	382,543,700

**IVE electrical interlocking unit**

**48/415VAC 50/60Hz**

Description	Reference	Unit Price
For 2 devices	29352	9,660,200
Wiring kit for connection	54655	6,638,500

**Automatic control option**

**220/240V 50/60Hz**

**380/415V 50/60Hz**

Description	Reference	Unit Price	Reference	Unit Price
ACP + BA controller (2 source)	29470	36,649,800	29471	36,649,800
ACP + UA controller (1 source + 1 generator)	29472	44,053,900	29473	44,053,900

The same voltage must be used for the ACP plate, the IVE unit and the circuit breaker operating mechanisms  
ACP, IVE và motor điều khiển phải cùng điện áp

## Automatic Source Changeover

## ATS Masterpact NT

### How to select ATS system

2 Circuit Breaker 3P or 4P, fixed or drawout electrical operated,  
 2 Motor Mechanism (MCH)  
 2 Closing release (XF)  
 2 Under voltage release(MN)  
 Auxiliary switches, Alarm switch (OF, SDE)  
 Ready to close contact PF  
 Complete assembly mechanical interlock by cable or rod  
 Electrical interlock (IVE)  
 Automatic controller

### Cách lựa chọn bộ ATS

2 CB 3P hoặc 4P, fixed hoặc drawout, đóng cắt bằng điện  
 2 cơ cấu motor gắn vào CB (MCH)  
 2 cuộn dây đóng (XF)  
 2 cuộn dây điện áp thấp (MN)  
 Tiếp điểm phụ, tiếp điểm báo động (OF, SDE)  
 Tiếp điểm phụ PF  
 Khóa liên động cơ khí bằng cable hoặc thanh  
 Khóa liên động điện (IVE)  
 Bộ điều khiển tự động



Unit price (incl.VAT) in VND

### Interlocking for source changeover system for 2 devices

Description	Reference	Unit Price
<b>Interlocking using Connecting rods</b>		
Complete assembly with 2 adaptation fixtures + rod		
2 Masterpact NT fixed devices	33912	14.635,500
2 Masterpact NT drawout devices	33913	14.635,500
<b>Interlocking using Cable(*):</b>		
Choose 2 adaptation fixtures (1 for each breaker) + 1 set of Cable		
Adaptation for NT fixed devices	33200	6.792,500
Adaptation for NT drawout devices	33201	6.792,500
Set of Cable	33209	4.757,500

(\*) can be used with any combination of NT or NW, fixed or drawout device  
 (\*) có thể dùng kết hợp NT hoặc NW, loại cố định hoặc kéo ra được

### IVE electrical interlocking unit (#)

48/415V 50/60Hz

Description	Reference	Unit Price
For 2 devices	29352	9.660,200
Wiring kit for connection of 2 fixed/drawout devices to IVE unit	54655	6.638,500

### Automatic control option (#)

220/240V 50/60Hz

380/415V 50/60Hz

Description	Reference	Unit Price	Reference	Unit Price
ACP + BA controller (2 source)	29470	36.649,800	29471	36.649,800
ACP + UA controller (1 source + 1 generator)	29472	44.053,900	29473	44.053,900

(#) The same voltage must be used for the ACP plate, the IVE unit and the circuit breaker operating mechanisms

### Example:

BOM of Automatic source changeover system using Masterpact NT 1600A 3P 50kA, Drawout type, control voltage 220Vac

Application: 1 source 1 generator

Description	Reference	Quantity
NT 1600A H2 3P D/O MLOGIC 2	NT16H23D2	2
GEAR MOTOR 200/240 VAC FOR DRAWOUT BREAK	47466	2
XF 200/250 VAC/VDC FOR DRAWOUT BREAKER	47443	2
MX 200/250 VAC/VDC FOR DRAWOUT BREAKER	33813	2
READY-TO-CLOSE CONTACT FOR DRAWOUT BREAK	47432	2
1 SET OF 2 INTERLOCK CABLES	33209	1
CABLE-TYPE INTERLOCK PLATE FOR D/O BR	33201	2
ADAPTATION KIT UA/BA	54655	1
electrical interlocking IVE 48 to 415 V	29352	1
ACP AND AUTO UA 220V/240VAC 50HZ	29472	1

Reference will be ATSNT16H23D2

## Automatic Source Changeover

## ATS Masterpact NW

### How to select ATS system

2 Circuit Breaker 3P or 4P, fixed or drawout electrical operated,  
 2 Motor Mechanism (MCH)  
 2 Closing release (XF)  
 2 Under voltage release(MN)  
 Auxillary switches, Alarm switch (OF, SDE)  
 Ready to close contact PF  
 Complete asseby mechanical interlock by cable or rod  
 Electrical interlock (IVE)  
 Automatic controller

### Cách lựa chọn bộ ATS

2 CB 3P hoặc 4P, fixed hoặc drawout, đóng cắt bằng điện  
 2 cơ cấu motor gắn vào CB (MCH)  
 2 cuộn dây đóng (XF)  
 2 cuộn dây điện áp thấp (MN)  
 Tiếp điểm phụ, tiếp điểm báo động (OF, SDE)  
 Tiếp điểm phụ PF  
 Khoá liên động cơ khí bằng cable hoặc thanh  
 Khoá liên động điện (IVE)  
 Bộ điều khiển tự động



Unit price (Incl.VAT) in VND

### Interlocking for source changeover system for 2 devices

Description	Reference	Unit Price
<b>Interlocking using Connecting rods</b>		
Complete assembly with 2 adaptation fixtures + rod		
2 Masterpact NW fixed devices	48612	14,635,500
2 Masterpact NW drawout devices	48612	14,635,500
<b>Interlocking using Cable(□):</b>		
Choose 2 adaptation fixtures (1 for each breaker) + 1 set of Cable		
Adaptation for NW fixed devices	47926	6,662,700
Adaptation for NW drawout devices	47926	6,662,700
Set of Cable	33209	4,757,500

(□) can be used with any combination of NT or NW, fixed or drawout device  
 có thể dùng kết hợp NT hoặc NW, loại cố định hoặc kéo ra được



### Interlocking of ATS 3 devices for Masterpact NW only

Description	Reference	Unit Price
<b>Interlocking using Cable:</b>		
1 complete set of 3 adaptaton fixtures + 1 set of Cable		
3 sources, only 1 device closed, fixed or drawout	48610	36,274,700
2 sources, 1 coupling, fixed or drawout	48609	36,274,700
2 normal, 1 replacement source, fixed or drawout	48608	36,274,700



### IVE electrical interlocking unit (#)

48/415V 50/60Hz

Description	Reference	Unit Price
For 2 devices	29352	9,660,200
Wiring kit for connection	54655	6,638,500



### Automatic control option

220/240V 50/60Hz

380/415V 50/60Hz

Description	Reference	Unit Price	Reference	Unit Price
ACP + BA controller (2 source)	29470	36,649,800	29471	36,649,800
ACP + UA controller (1 source + 1 generator)	29472	44,053,900	29473	44,053,900

(#) The same voltage must be used for the ACP plate, the IVE unit and the circuit breaker operating mechanisms

Example:

BOM of Automatic source changeover system using Masterpact NW 2500A 3P 65kA, Drawout type, control voltage 220Vac. Application: 1 source 1 generator

Description	Reference	Quantity
NW 2500A H1 3P D/O MLOGIC 2	NW25H13D2	2
GEAR MOTOR 200/240 VAC FOR DRAWOUT BREAK	48527	2
XF 200/250 VAC/VDC FOR DRAWOUT BREAKER	48484	2
MX 200/250 VAC/VDC FOR DRAWOUT BREAKER	48494	2
1 READY-TO-CLOSE CONTACT FOR NW/NT D/O	48469	2
1 SET OF 2 INTERLOCK CABLES	33209	1
CABLE-TYPE INTERLOCK PLATE FOR FIXED OR	47926	2
ADAPTATION KIT UA/BA	54655	1
electrical interlocking IVE 48 to 415 V	29352	1
ACP AND AUTO UA 220V/240VAC 50HZ	29472	1

Reference will be ATSNW25H13D2