

**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 bảo 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 NT fixed devices	<b>33912</b>	15,220,700
2 Masterpact NT drawout devices	<b>33913</b>	15,220,700
<b>Interlocking using Cable(*):</b>		
Choose 2 adaptation fixtures (1 for each breaker) + 1 set of Cable		
Adaptation for NT fixed devices	<b>33200</b>	6,996,000
Adaptation for NT drawout devices	<b>33201</b>	6,996,000
Set of Cable	<b>33209</b>	4,900,500

(\*) 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	<b>29352</b>	10,046,300
Wiring kit for connection of 2 fixed/drawout devices to IVE unit	<b>54655</b>	6,837,600

**Automatic control option (#) 220/240V 50/60Hz 380/415V 50/60Hz**

Description	Reference	Unit Price	Reference	Unit Price
ACP + BA controller (2 source)	<b>29470</b>	37,749,800	<b>29471</b>	37,749,800
ACP + UA controller (1 source + 1 generator)	<b>29472</b>	45,375,000	<b>29473</b>	45,375,000

(#) 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	<b>NT16H23D2</b>	2
GEAR MOTOR 200/240 VAC FOR DRAWOUT BREAK	<b>47466</b>	2
XF 200/250 VAC/VDC FOR DRAWOUT BREAKER	<b>47443</b>	2
MX 200/250 VAC/VDC FOR DRAWOUT BREAKER	<b>33813</b>	2
READY-TO-CLOSE CONTACT FOR DRAWOUT BREAK	<b>47432</b>	2
1 SET OF 2 INTERLOCK CABLES	<b>33209</b>	1
CABLE-TYPE INTERLOCK PLATE FOR D/O BR	<b>33201</b>	2
ADAPTATION KIT UA/BA	<b>54655</b>	1
electrical interlocking IVE 48 to 415 V	<b>29352</b>	1
ACP AND AUTO UA 220V/240VAC 50HZ	<b>29472</b>	1

Reference will be **ATSNT16H23D2**