

ISOLATION - BYPASS SWITCHES



Typical 1200
Amp Unit



- 100 - 1200 Amp, 600 VAC Max
- 2, 3, or 4 Pole
- Molded case circuit breaker switching units
- High withstand capacity
- Suitable for on-load switching
- Key interlocks provide positive interlocking
- Separate enclosure provides true isolation
- Pilot lights indicate operation modes and sources available (optional)
- This product co-ordinates with TTI TS 850 series automatic transfer switches or other types

NRTL/C Certified to:
UL 1008 and CSA C22. 2#178

DESCRIPTION

THOMSON TECHNOLOGY IBS 870 series Isolation-Bypass Switches are used in conjunction with automatic load transfer switches, and permit the operator to electrically isolate the transfer switch, and then to bypass either the utility or generator supply around the transfer switch to provide power to the load. The isolated transfer switch is then electrically dead, and may be serviced without danger.

Since the isolation-bypass switch is self-contained in a separate enclosure, it is not subject to consequential damage relative to failure of the transfer switch. When the isolation-bypass switch is in the "isolated" mode, **no power** is present in the transfer switch enclosure. This provides a distinct advantage over products where the transfer switch and isolation-bypass are installed in a common enclosure.

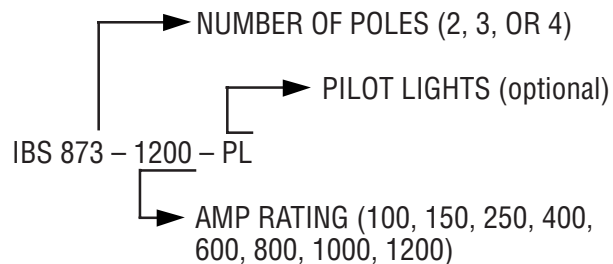
The IBS 870 is optionally available in a combination dual-compartment enclosure which also houses the transfer switch and power interconnections.

QUALITY ASSURANCE

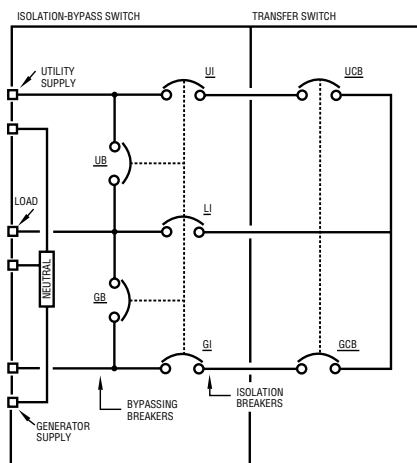
ISO 9001

MODEL CODE

EXAMPLE:



ONE-LINE SYSTEM DIAGRAM



NOTE

Key interlocks permit closure of:

- Isolation Switch (UI/LI/GI) **OR**
- Utility Bypass (UB) **OR**
- Generator Bypass (GB)

Only one key is supplied. In normal position, the isolation switch is closed and the key is held captive. To bypass either source to load, the isolation switch must be opened to permit key removal. Then the key may be inserted in the appropriate key interlock, to allow closure of a bypass breaker. The key is held captive when a bypass breaker is closed.

SHORT CIRCUIT CURRENT RATING

[Available Symmetrical Amps (RMS)]¹

Basic Model	With Upstream Circuit Breaker Protection			With Upstream Fuse Protection	
	@ 240V	@ 480V	@ 600V	@ 600V	Max Fuse
IBS 870 - 100 thru 150	65,000	35,000	25,000	100,000	100-150
IBS 870 - 250	65,000	35,000	25,000	100,000	200
IBS 870 - 400 thru 600	65,000	35,000	25,000	100,000	400-600
IBS 870 - 800 thru 1200	65,000	50,000	35,000	100,000	800-1200

(Higher ratings available on request)

ENCLOSURES

ASA 61 GRAY – other colours available
 NEMA 1 – other types available
 DIMENSIONS – to suit - please request information

CABLE TERMINALS

RATING (A)	TERMINAL RATING ²			
	NUMBER OF CONDUCTORS	CONDUCTOR SIZE RANGE	TYPE	
			Cu	Al
100,150	1	#4 - 4/0	X	X
250	1	#1 - 350 MCM	X	X
400, 600	1	2/0 - 500 MCM ³	X	
	2	2/0 - 350 MCM ³	X	
	2	4/0 - 500 MCM ³		X
800	2	2/0 - 400 MCM	X	
	3	2/0 - 300 MCM	X	
	3	4/0 - 400 MCM		X
1000, 1200	4	3/0 - 500 MCM	X	
	4	4/0 - 500 MCM		X

NOTE: Specifications subject to change without notice.

CL 015 REV 3 01/12/01

¹ Standard ratings only are shown. Consult TTI for versions using higher short circuit current ratings.

² Optional Terminal Ratings are available in some models - consult TTI.

³ When 500 MCM cable is utilized, cable entry / exit locations are restrictive - consult TTI.

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