

Technical Data Sheet

Automatic Transfer Switches (ATS) with Dual Line Bypass

CDPD89
Issue 6

Form 4 Type 2 Automatic Transfer Switches (ATS) with Dual Line Maintenance Bypass

of each system is a four-pole changeover device. Rated 230V or 400V AC the 'Dual-line Bypass' range utilises electromechanical interlocked 4 pole changeover provides all the essential requirements for automatically switching to a replacement power source. Units are rated from 32A to 800A with a rated frequency of 50/60Hz.

The Single or Three-phase ATS units allow automatic connection of a secondary electrical supply to a load upon failure of the primary supply.


The Dual Line Bypass function isolates the ATS by bypassing the (S1) supply or the (S2) supply directly to the outgoing load, enabling essential maintenance. The key advantage is that both the (S1) supply and (S2) supply to the load can be maintained whilst service and repairs can be carried out on the ATS unit.

Supplied in sheet steel enclosures up to IP65 with a light grey (RAL 7035) paint finish, each enclosure comes standard with a removable gland plate(s). Each ATS unit comes standard with terminals for easy connection of a mimic panel. Volt-Free Status Relays are included within the ATS unit in order to connect to the BMS (building management system) installed within the building.

Each unit comes with a built-in controller designed to monitor the voltage of an incoming AC supply from two different sources. This could be from both generator or mains (utility), or a combination of both. The module monitors S1 (Source 1) and in the event of a failure issues a start command to S2 (Source 2). The main LED indicator lights show the status of the supplies. An Auto / test switch is supplied with a set of 2 keys.

Terminals are separated from each other and from changeover equipment using rigid, metallic barriers resulting in Form 4, type 2 separation.


Applied standards: BS EN / IEC 60947-4, BS EN / IEC 60947-6-1 & BS 8519:2010.

Dual Line Maintenance Bypass ATS with incoming terminals												
Image	Rating		Cat. No.		Encl. size (mm)			Max Cable Size	Cable Entry	IP Rating	Encl Material	
	AC31	AC33	Single Phase	Three Phase	H	W	D					
	32A	18A	ATS03220120	ATS03240120	800	600	300	16mm ²	Bottom	IP65	Sheet Steel Light Grey RAL 7035	
	45A	26A	ATS04520120	ATS04540120	800	600	300	16mm ²				
	63A	40A	ATS06320120	ATS06340120	1200	800	300	2x 70mm ²				
	100A	65A	ATS10020120	ATS10040120	1200	800	300	2x 70mm ²				
	125A	95A	ATS12520120	ATS12540120	1200	800	300	2x 70mm ²				
	160A	115A	ATS16020120	ATS16040120	1200	800	300	2x 70mm ²				
	250A	150A	ATS25020320	ATS25040320	1800	1000	400	2x 240mm ²	Top	IP55		
	400A	320A	ATS40020320	ATS40040320	1800	1000	400	2x 240mm ²				
	630A	520A	ATS63020320	ATS63040320	2000	1200	400	2x 300mm ²				
	800A	630A	ATS80020320	ATS80040320	2000	1200	400	2x 300mm ²				

Form 4 Type 2 ATS with Dual Line Maintenance Bypass with Isolators

This option includes two separate isolators built-in, providing the ability to isolate both supplies. Isolators are separated from each other and from changeover equipment using rigid, metallic barriers resulting in Form 4, type 2 separation.

Applied standards: BS EN / IEC 60947-4, BS EN / IEC 60947-6-1 & BS 8519:2010.

Dual Line Maintenance Bypass ATS with incoming isolators												
Image	Rating		Cat. No.		Encl. size (mm)			Max Cable Size	Cable Entry	IP Rating	Encl Material	
	AC31	AC33	Single Phase	Three Phase	H	W	D					
	32A	18A	ATS03220220	ATS03240220	800	600	300	16mm ²	Bottom	IP65	Sheet Steel Light Grey RAL 7035	
	45A	26A	ATS04520220	ATS04540220	800	600	300	16mm ²				
	63A	40A	ATS06320220	ATS06340220	1200	800	300	2x 70mm ²				
	100A	65A	ATS10020220	ATS10040220	1200	800	300	2x 70mm ²				
	125A	95A	ATS12520220	ATS12540220	1200	800	300	2x 70mm ²				
	160A	115A	ATS16020220	ATS16040220	1200	800	300	2x 70mm ²				
	250A	150A	ATS25020420	ATS25040420	1800	1000	400	2x 240mm ²	Top	IP55		
	400A	320A	ATS40020420	ATS40040420	1800	1000	400	2x 240mm ²				
	630A	520A	ATS63020420	ATS63040420	2000	1200	400	2x 300mm ²				
	800A	630A	ATS80020420	ATS80040420	2000	1200	400	2x 300mm ²				