SVTA-SWTA DIAGNOSTIC											
NORMAL OPERATION											
LED DISPLAY			OUTPUTS				COMMENTS				
Supply	Line Up	Load Down	Pwr Diag.		LUAD		COMMENTS				
ANALOG INPUT VOLTAGE BELOW THE MINIMUM CONTROL VOLTAGE THRESHOLD											
	$\bigcirc \bigcirc $	0000			OFF		DIAGNOSTIC Phase presence = OK ; Phase voltage = OK ; Phase frequency = OK LEDs blinking sequence indicates mains phase rotation is direct Load connected Analog input voltage below the minimum control voltage threshold (0.3V (0- 10V) ; 4mA (4-20mA) ; 0.15V (0-5V / potentiometer))				
0000					OFF		DIAGNOSTIC Phase presence = OK ; Phase voltage = OK ; Phase frequency = OK LEDs blinking sequence indicates mains phase rotation is reverse Load connected Analog input voltage below the minimum control voltage threshold (0.3V (0- 10V) ; 4mA (4-20mA) ; 0.15V (0-5V / potentiometer))				
ANALOG INPUT VOLTAGE ABOVE THE MINIMUM CONTROL VOLTAGE THRESHOLD											
\bigcirc	\bigcirc	\bigcirc			ON		Indicates the voltage at the analog input or the voltage ramp set by the user (Time ramp (s)) is increasing.				
\bigcirc	\bigcirc	0			ON		Indicates the voltage at the analog input exceeds the maximum full power threshold voltage (9.7V (0-10V):19.7mA (4-20mA):4.9V (0-5V / potentiometer))				
\bigcirc	0	\bigcirc			ON		Indicates the voltage at the analog input or the voltage ramp set by the user (soft-stop) is decreasing				
	0	0			ON		Stable analog input voltage or voltage ramps finished (if used) NOTA · A fast IIP/DOWN LEDs blinking can occur				
ABNORMAL OPERATION											
LE	D DISPL	AY	OUTPUTS								
Supply	Line	Load	Pwr	Diag.	LOAD		POSSIBLE C	AUSE		SOLUTION	
WHATEVER IS THE VOLTAGE VALUE AT THE ANALOG INPUT											
0	0	0			OFF		Mains is missing or it is connected on the motor side (2T1, 4T2, 6T3) of the device, instead of the mains side (1L1, 3L2, 5L3)		Check	the power side wiring	
	0			{ }	OFF		Mains voltage too low		Check pha	se to phase voltage between 3L2 and 5L3	
0		0			OFF		1 or 2 phase(s) missing, Mains frequency out of range, Too many disturbances			Check the phases	
					OFF		Microcontroller malfunction or too many problems at the same time		Disconnec for a wh	t the device from the mains nile and check the wiring	
0					OFF		Load connection missing, Shorted thyristor (s)		Check load connections and measure the power element resistance (should be several 100kOhms)		
\bigcirc		0			OFF		A problem on the main occurred (e.g. phase missing) and now it is OK but analog input voltage is present		Remove th	e analog input voltage for a while	
\bigcirc					OFF		A problem on the load occurred (e.g. temporary disconnection) and now it is OK but analog input voltage is present		Remove the analog input voltage for a while		
	\bigcirc	\bigcirc	-/-	-/	OFF		Factory diagnostic			Consult us	
ANALOG INPUT VOLTAGE ABOVE THE MINIMUM CONTROL VOLTAGE THRESHOLD											
					OFF		Power elements can not turn on		Check connection between 5 and 6 of the control terminal block. Check the load current is above the minimum specified		
0		0			ON		1 or 2 phase(s) missing, Mains frequency out of range, Too many disturbances		Check the phases		
	_						LEGENDE				
			\bigcirc								
OFF			GREEN				RED	BLINK OFF/GR	ING EEN	BLINKING OFF/RED	

IMPORTANT INFORMATION CONCERNING THE DIAGNOSTIC

The device makes a complete diagnostic (mains, load and itself) as soon as the mains voltage is sufficient

2-The device checks only the presence of phases when the analog input voltage is above the minimum control threshold, during the ramps (softstart and softstop) and when it is full on (the power elements are tested only when analog control voltage is below the minimum control voltage threshold). 3-

- The control overrides the diagnostic.
 - If a problem occurs during the control period, the device will try to go on driving the load according the analog
 - input voltage. If the problem goes on, it will be if possible indicated to the user according the diagnostic table.

If a problem occurs during the softstopping period, the device will stop immediately in order to reach the off _ state diagnostic period.

PRELIMINARY 22/01/04

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