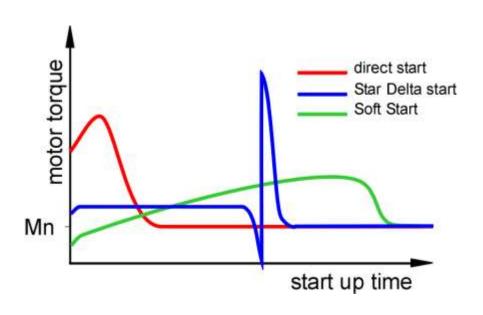




## <u>Ultra Slim soft-starter</u> <u>Model Christian P-4.0</u>



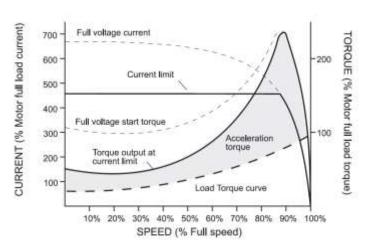






## The features

- Reduce the inrush current at motor start to protect the motor, mechanics and mains supply.
- Eliminate star/delta contactors
- Eliminate forward/reverse control logic and contactors
- Protect motors with heavy starting loads
- Reduce maintenance in cyclic starting motor applications
- Eliminate the use of a MCB





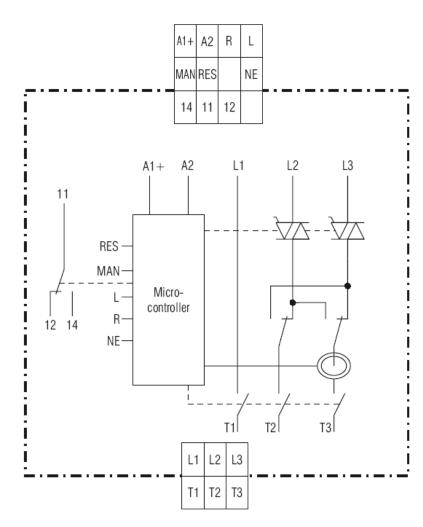
## Introducing soft-starter Christian

- 2PH controlled softstarter
- Motor power range from 0,5 up to 4kW @ 400VAC
- Ultra-Slim 22,5mm space saving unit
- Internal bypass contactor as standard
- Forward/Reverse control
- Built in motor protection
- Built in isolation contactor (3ph) OPTION!
- CE, (UL, cUL test in progress)
- Easy setup by just 4 knobs
- Control terminals on top, Power terminals at the bottom
- No fans for cooling natural ventilation only



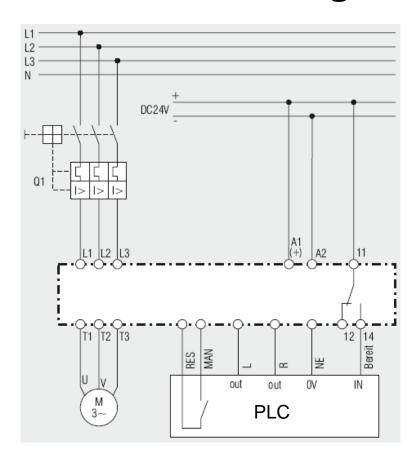
## AHE 1

## **Functional Circuit**





## **Connection – Wiring**









## Finding the right power size

Only one build size 0,55kW .. 4.0kW @ 400VAC

Nominal motor current 1,6A .. 9,0A

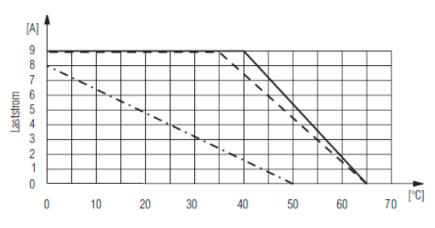
Max. start current 5,0A.. 50A

Motor protection: Class 5 1,5A .. 6,9A

Class 10A

6,9A .. 9,0A

Operation temperature: 0..+60°C see derating below

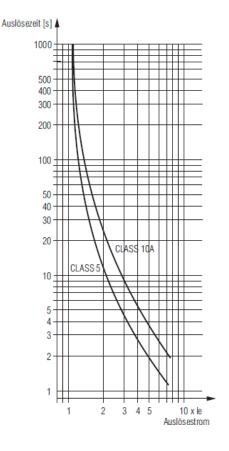


#### Derating for:

— Single unit

--- 20mm distance

-·-· Side by side





# AHETHER STATES

## **Easy operation**

- 4 status LEDs
- 4 Potentiometer knobs
- 1 Reset button



- M on
- M off
- T on/off
- I Motor
- Reset



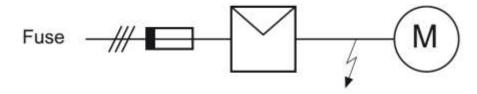


- Wire the unit, take care on phase rotation!
- Turn le to nominal motor load current
- Turn Mon to the fully left position
- Turn Moff to the fully left position
- Turn ton to full right position
- Power up the unit: 24VDC
- Activate start input forward/reverse whatever is required
- Turn the requested M on/off clockwise until motor starts and follows ramp.









Short Circuit: The only way to protect the Christian against short circuit is a super fast blowing semiconductor fuse with <=200 As<sup>2</sup>

Overload: There are two ways of doing that.

- 1.: Use the motor protection inside the unit with integrated breaker
- 2.: Use an external MCB as used for a direct started motor

Line fuses: These fuses must be installed according to the local requirements and standards.







- 2PH controlled unit
- Integrated forward/reverse
- Integrated bypass relay
- Integrated motor overload protection
- Phase rotation detection
- Voltage failure detection
- Space saving 22,5mm
- Well sized 10 starts/hour, no fans
- Easy setup without any instruments or programming
- Highly efficient operation (2VA after start)
- No harmonics filtering necessary





### **Power size Christian**



Туре	Order code	P <sub>Motor</sub> [kW]	l <sub>start</sub> nom. [A]	I <sub>start</sub> max. [A]	<b>Weight</b> [kg]	Dim. WxHxD [mm]
P-4.0	490800	0,55 4,0kW	1,69,0	50	0,22	22,5x105x120,3
P-4.0 TS Integrated Isolation contactor	490801	0,55 4,0kW	1,69,0	50	0,22	22,5x105x120,3

Sorry – only one size!





## **TELE** power electronics



Please note, that we are a quality supplier of

- Thyristorstacks
- Soft starters
- Electronic braking units
- Soft starters with integrated electronic breaking

## What's next:

Thyristor stacks without semiconductor fuses Series XTRA — short circuit proof!



















































































