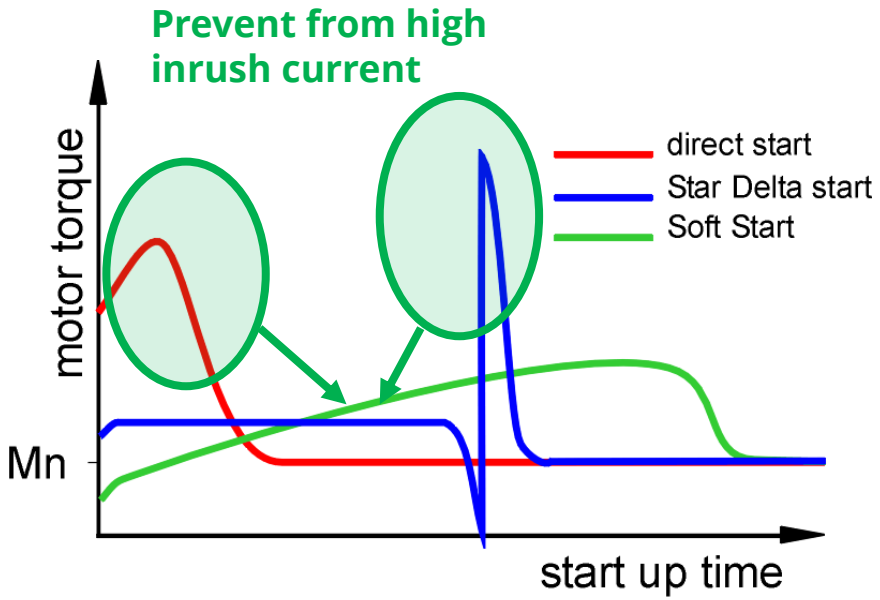
# Ultra Slim soft-starter
# Model Christian P-4.0

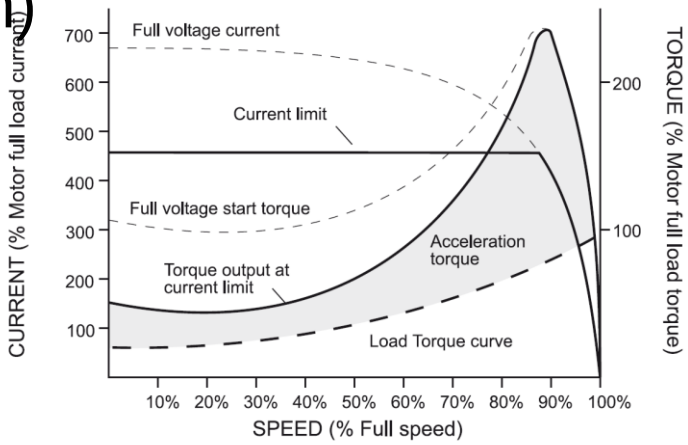



# Introducing the new soft-starter Christian

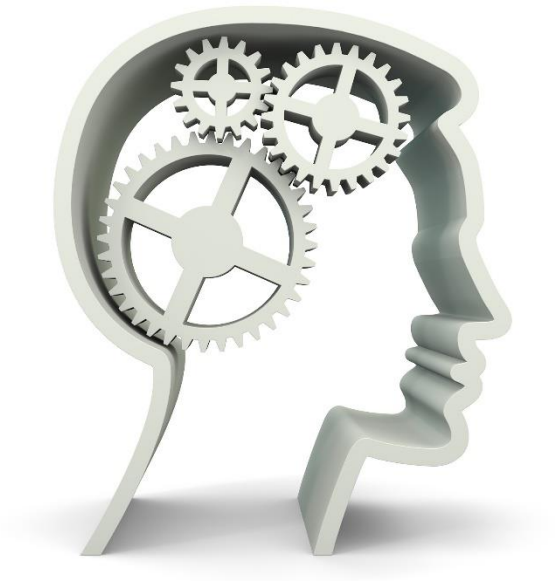
- 2PH controlled Softstarter for 3ph induction motors
- Motor power range 0.5 to 4.5kW@ 300 to 480VAC
- Ultra-Slim 22.5mm (0.88in) space saving unit
- Internal bypass contactor (standard)
- Forward/Reverse control (standard)
- Built in motor blocking protection (standard)
- Built in  3ph isolation contactor (option)
- CE, (UL, cUL test finished, certification in process)
- Easy setup by just 4 knobs
- Control terminals on top, Power terminals at the bottom
- No fans for cooling – natural ventilation only

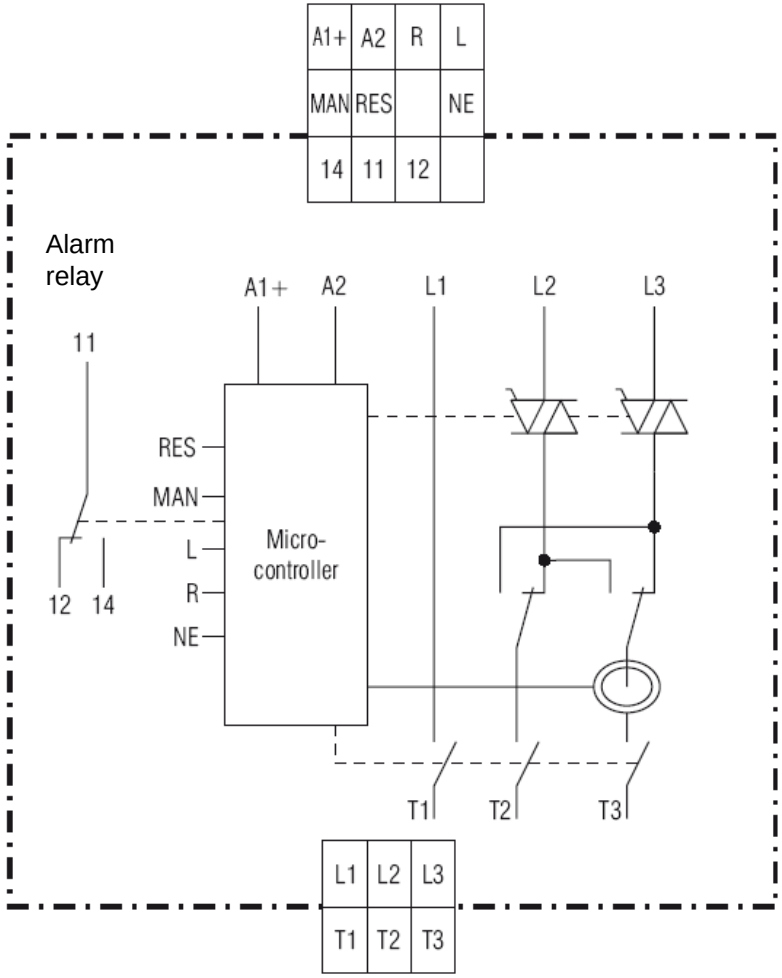
# Your advantages

- 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 too heavy starting loads
- Reduce maintenance in cyclic starting motor applications
- Eliminate the use of a MCB (option)

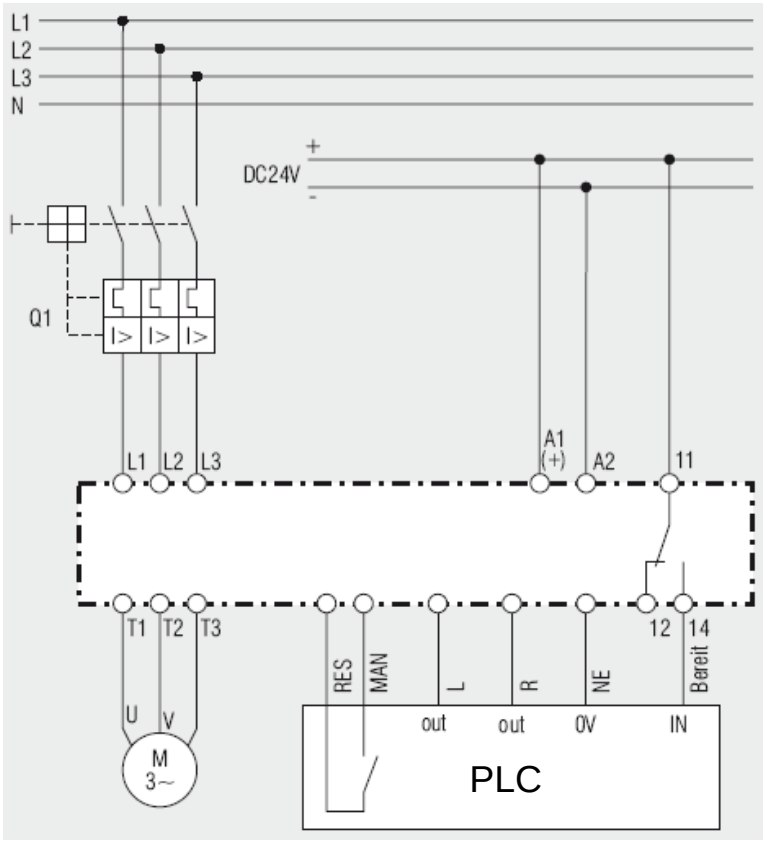


# Functional Circuit



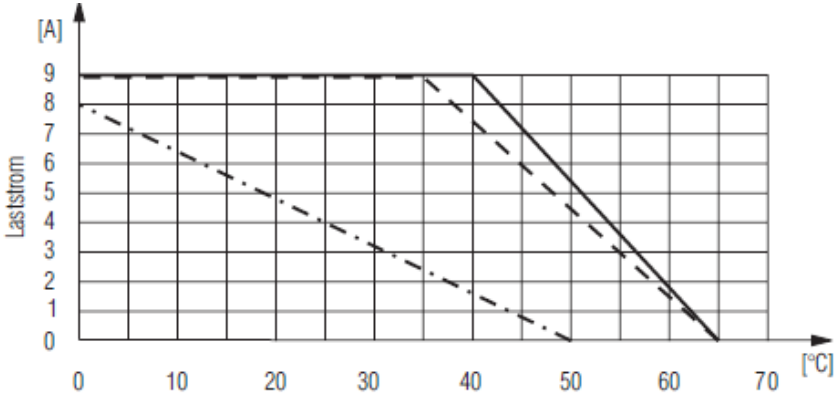


# Connection – Wiring




# Technical data

- Only one build size 0,5kW..4.5kW(6hp)@480VAC
- 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 temp.: -31 to +131 °F see derating below
- Starts/hour: typically 10 Starts/h

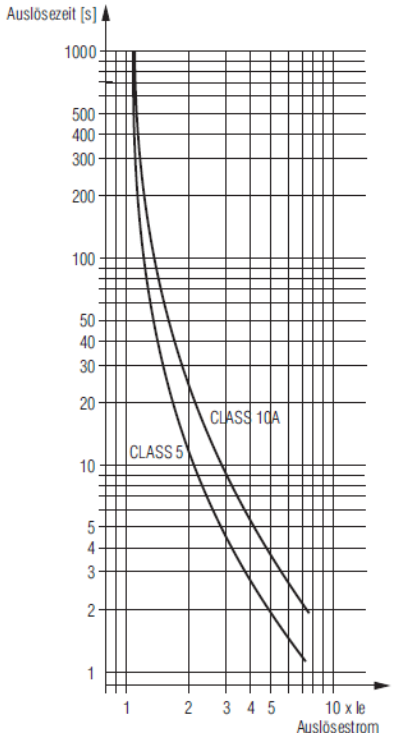



***Derating for:***

——— Single unit

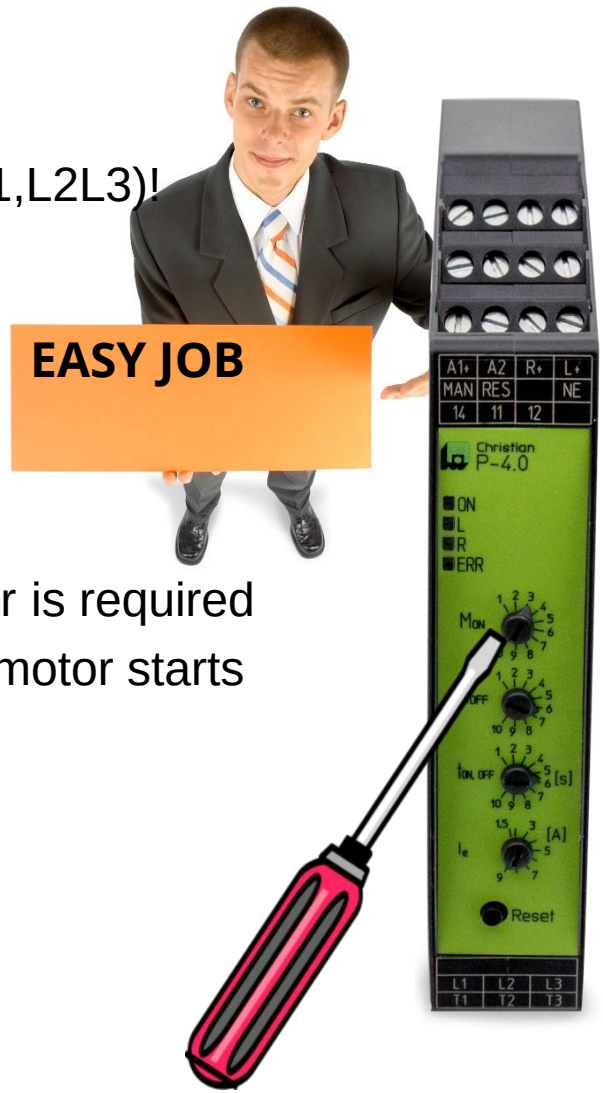
– – – 20mm distance

– · – · Side by side



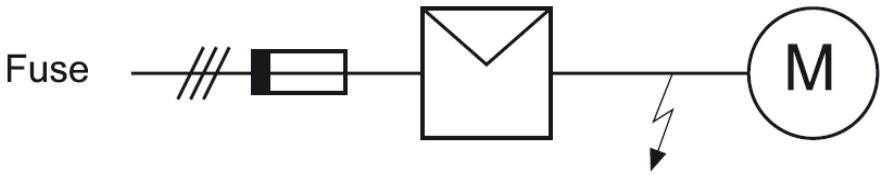
# Setting up Christian

- Wire the unit, take care on phase rotation (l1,L2L3)!
- Turn Imax to max motor start current
- Turn Mon to the fully left position
- Turn Moff to the fully left position
- Turn ton to mid (3 o'clock) 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.




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

# Protecting Christian





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

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.

# Any queries, please contact:

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