

# Compressor Softstarter – CCL33H415US

## Type: CCL33H415US

The CCL range has been developed for the operation of heat pumps and compressors. Intelligent current limitation during start-up reduces the drive power by up to 65%. The integrated motor protection allows the adjustment of the nominal power and replaces an additional motor protection switch. Thanks to an integrated bypass relay, there are no additional costs for external bridging. Comprehensive monitoring detects over- and undercurrent, incorrect phase sequences and wiring errors. CCL Softstarter is available in three versions with a nominal current of up to 35 A. Cage clamp terminals allow quick wiring.

### Output

Switching element	Thyristor
Numbers of phases	3
Bypass	integrated
Nominal voltage ( $U_{nom}$ )	<b>400 VAC</b>
Output voltage range	230 – 400 Vrms
Reverse voltage	1200 Vrrm
Peak reverse voltage	1300 Vrsm
Min. load	10 A
Max. leakage current	5 mA
Max. inrush current ( $t=1$ s)	90 A
Operation current AC-58 @ $U_{nom}$	<b>15 A</b>
Switching cycles/h	max. 12 cycles/h
Response/Release time	500 ms
Limit load	610 A <sup>2</sup> s

### Input

Voltage	230 VAC
Min. voltage	196 VAC
Max. voltage	264 VAC
Release voltage	110 VAC
Max. current	7 mA

### Insulation

Insulation voltage	4 kV
Dielectric strength	660 V

### General Specifications

Ambient temperature storage/operation	-20 – 80°C / -20 – 65°C
Connection terminals	Screw terminal 6 mm <sup>2</sup>
Ingress protection degree	IP 20
Mounting	DIN rail TS35
Housing material	PPE Noryl SE1
Weight	470 g

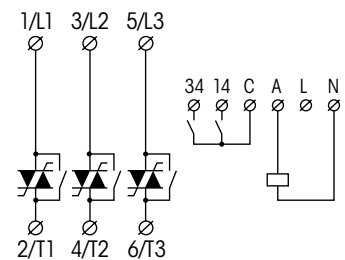
### Standard type

Starting Torque Limiter

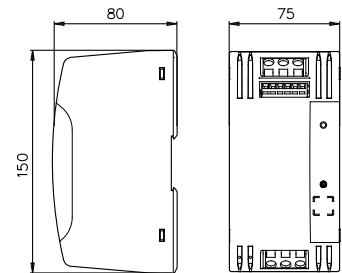
**CCL33H415US**



### Connection diagram



### Dimensions [mm]



### Technical approvals, conformities

