

Compressor Soft Starter CSS-25U / CSS-32U

The Compressor Soft Starter CSS-25U / CSS-32U is used for switching, protecting and starting current limitation of single phase compressors in residential heat pump applications.

Features

- For motors with maximum operating current up to 25A/32A
- Limitation of starting current to less than 45 A (Part No. 805209 less than 30 A)
- Self-adjusting for use in 50 Hz or 60 Hz supply
- Self-adjusting to motor current - no manual adjustment or calibration necessary
- Alarm relay output
- Start capacitor for improved motor acceleration is switched off after start
- Low voltage shutdown
- Locked rotor recognition and shutdown
- Delay function to limit number of motor starts per hour
- Thyristor protected contactor for long life
- No extra motor contactor needed
- Self-diagnostics
- Mounting clip for easy installation allows DIN rail mounting in two directions
- Easy connection by cage type screw terminals wire \varnothing 4mm



CSS-32W

CE Standards:

- LVD 2006/95/EC Low Voltage Directive
- EN 60947-1 Low voltage switchgear and controlgear
- EN 60947-4-2 Contactors and motor-starters - AC semiconductor motor controllers and starters
- EN 60335-1, EN 60335-2-40: Safety of household and similar electrical appliances (PCN 805 204 and 805 205 only, confirmed and certified by independent test lab VDE.)
- EMC 2004/108/EC
- ROHS 2011/65/EU

Selection Table

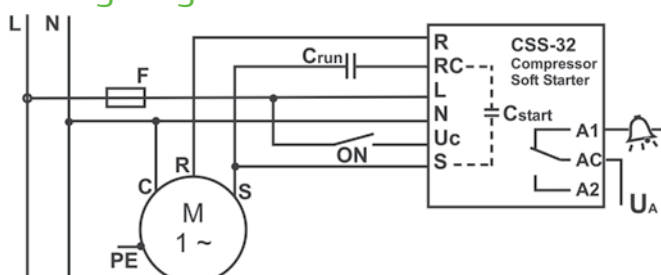
Type	Part No.	Part No. (20 Pieces)	Description	I max
CSS-32U	805 204	805 204 M	Soft Starter Incl. Mounting Clip, VDE Released Version	32A
CSS-25U	805 205	805 205M	Soft Starter Incl. Mounting Clip, VDE Released Version	25A
CSS-25U	805 209	805 209M	Soft Starter Incl. Mounting Clip (Limitation of Starting Current to Less Than 30 A)	25A
K00-003	807 663	-	3-pol Screw Connector to Alarm Output for Wires Up to 2.5mm ² ; Bag with 50 Pieces	

Technical Data

Operating Voltage	230 V 50/60 Hz Nominal
Nominal Compressor Current	CSS-32U: 32A Max. CSS-25U: 25A Max.
Maximum Start Current	CSS-32U: 45A CSS-25U (805 205): 45A CSS-25U (805 209): 30A
Operating Temperature	-20 ... +55°C Non Condensing
Storage Temperature	-20 ... +65°C Non Condensing
Start Capacitor	200 ... 240 μ F
Time Delay After Stop	0.5 ... 5 Min

Alarm Relay, AgNi (SPDT)	250V~ / 3A 30V= / 3A
Resistive (AC1) Max.	
Flexible Cable Cross Section	
CSS-32U/-25U All Terminals	0.25 ... 4 mm
Flexible Cable Cross Section	
Alarm Output Connector K00-003	0.25 ... 2.5 mm
Max. Vibration (At 10 ... 1000 Hz)	4 g
Weight	430 g
Protection Acc. IEC 529	IP 20

Wiring Diagram



CSS Contacts

- R = Output Motor Run Winding
- RC = Output Run Capacitor
- L = 230V / AC Power Input
- N = Neutral Line
- Uc = Start Input (ON if Connected to 230V)
- S = Output Start Winding from Start Capacitor
- A1, AC, A2 = Alarm Relay Contact