

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 Ø 4mm



CSS-32W

CE Standards:

- LVD 2014/35/EU 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 2014/30/EU
- ROHS 2011/65/EU

Selection Table

Type	Part No.	Part No. (20 Pieces)	Description	I m
CSS-32U	805 204	805 204 M	Soft Starter Incl. Mounting Clip, VDE Released Version	32
CSS-25U	805 205	805 205M	Soft Starter Incl. Mounting Clip, VDE Released Version	25
CSS-25U	805 209	805 209M	Soft Starter Incl. Mounting Clip (Limitation of Starting Current to Less Than 30 A)	25
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:	32 A Max.
	CSS-25U :	25 A Max.
Maximum Start Current	CSS-32U:	45 A
	CSS-25U (805 205):	45 A
	CSS-25U (805 209)	30 A
Operating Temperature	-20 ... +55 °C Non Condensing	
Storage Temperature	-20 ... +65 °C Non Condensing	
Start Capacitor	200 ... 240 uF	
Time Delay After Stop	0.5 ... 5 Min	

Alarm Relay, AgNi (SPDT)	250 V _~ / 3 A
Resistive (AC1) Max.	30 V _~ / 3 A
Flexible Cable Cross Section	
CSS-32U/-25U All Terminals	0.25 ... 4 mm ²
Flexible Cable Cross Section	
Alarm Output Connector K00-003	0.25 ... 2.5 mm ²
Max. Vibration (At 10 ... 1000 Hz)	4 g
Weight	430 g
Protection Acc. IEC 529	IP 20

Wiring Diagram

CSS Contacts