Alco Controls CSS-25U / CSS-32U / CSS-32W Compressor Soft Starter

Technical Bulletin

The first **VDE certified Compressor Soft Starter** for safety of household. It is used for switching, protection and starting current limitation of single phase compressors in residential heat pumps, refrigeration and air-conditioning applications.

New: CSS-32W with 6mm² cross section power terminals

Features

- For motors with maximum operating current up to 25A / 32A
- Limitation of starting current to less than 45A; PCN 805209 less than 30A
- 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

Selection table

- Mounting clip for easy installation allows DIN rail mounting in two directions
- Easy wiring by cage type screw terminals (flexible cross section 4mm; CSS-32W flexible cross section 6mm)



CSS-32U Soft Starter



CSS-32W Soft Starter

Туре	Part No.	Description	Nom. Compr.	Max. Start
			Current	Current
CSS-32U	805 204	Compressor Soft Starter incl. mounting clip and operating manual	32A max	45 A
CSS-32U	805 204M	Box with 20 pieces , mounting clips and one operating manual	32A max	45 A
CSS-32W	805 211	Compressor Soft Starter incl. mounting clip and operating manual	32A max	45 A
CSS-32W	805 211M	Box with 20 pieces , mounting clips and one operating manual	32A max	45 A
CSS-25U	805 205	Compressor Soft Starter incl. mounting clip and operating manual	25A max	45 A
CSS-25U	805 205M	Box with 20 pieces , mounting clips and one operating manual	25A max	45 A
CSS-25U	805 209	Compressor Soft Starter Im30 incl. mounting clip and operating manual	25A max	30 A
CSS-25U	805 209M	Box with 20 pieces , mounting clips and one operating manual	25A max	30 A

Accessory



Technical Data

Operating voltage	230V 50 / 60 Hz nominal		
Nominal compressor	CSS-32U / - 32W: 32A max.		
current	CSS-25U : 25A max.		
Maximum start current	CSS-32U / -32W: 45A		
	CSS-25U (805 205): 45A		
	CSS-25U (805 209) 30A		
Operating temperature	-20 to +55 ℃ non condensing		
Storage temperature	-20 +65 ℃ non condensing		
Start capacitor	200 240 uF		
Time delay after stop	0,5 5 Min		

Standards

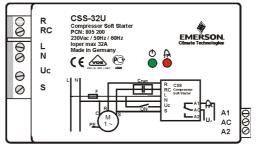
EN 60947-1	Low voltage switchgear and
	controlgear
EN 60947-4-2	Contactors and motor-starters -
	AC semiconductor motor
	controllers and starters
EMC 2004/108/EC	Electromagnetic Compatibility
	(EMC) Directive
LVD 2006/95/EC	Low Voltage Directive

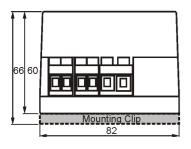
Alarm relay, AgNi (SPDT)	
Resistive (AC1) max.	250V~ / 3A 30V= / 3A
Flexible cable cross section CSS-32U/-25U all terminals CSS-32W (R, RC, L terminals)	0.25 4 mm 0.25 6 mm
Flexible cable cross section alarm output connector K00-003	0.25 2.5 mm
Max. vibration (at 10 to 1000 Hz)	4 g
Weight	430g
Protection acc. IEC 529	IP20

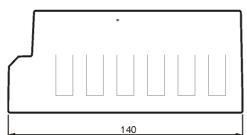
EN 60335-1 EN 60335-2-40	Safety of household and similar electrical appliances - Part 2-40 Particular requirements for electrical heat pumps, air-conditioners and dehumidifiers
ROHS 2002/95/EC	Restriction of Hazardous Substances Directive
Marking	CE, VDE RegNr. D967 / D663

Dimensions (mm)

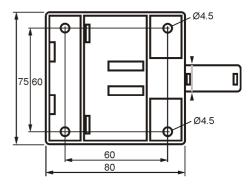
Compressor Soft Starter







DIN-Rail Mounting Clip



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