

ESS System Electronic Soft Start



Electronic compressor starter unit

Available as option for:

HG(HA)22P, 34P

HG(HA)4, 5, 6

HG7

The start process uses an electronic soft start unit, instead of the conventional start unloader through the bypass solenoid valve, non-return valve and star-delta protector combination. This means that the compressor gets up to its nominal speed in a set time and therefore produces much lower power peaks than the classical star-delta start.

The unit is designed to fit into a switch cabinet.

The advantages:

- Soft compressor start from zero to nominal speed, time controlled and monitored.
- **Up to 40 % lower start-up power consumption than when using star-delta start.**
- **No star-delta protection combination needed, no bypass between pressure and suction side needed. No solenoid valve or non-return valve needed.**
- No compressor damage resulting from malfunction of the start unloader.

Product selection

Type	ESS 25	ESS 38	ESS 63	ESS 75	ESS 100
HG22P, HA22P	●				
HG34P, HA34P	●				
HG4/465-4, HA4/465-4 HG4/465-4 S		● ●			
HG4/555-4, HA4/555-4 HG4/555-4 S		●	●		
HG4/650-4, HA4/650-4 HG4/650-4 S		●	●		
HG5/725-4, HA5/725-4 HG5/725-4 S		●	●		
HG5/830-4, HA5/830-4 HG5/830-4 S		●	●		
HG5/945-4, HA5/945-4 HG5/945-4 S			● ●		
HG6/1080-4, HA6/1080-4 HG6/1080-4 S			●	●	
HG6/1240-4, HG6/1240-4 HG6/1240-4 S				●	●
HG6/1410-4, HG6/1410-4 HG6/1410-4 S				●	●
HG7/1620-4 HG7/1620-4 S					● ●
HG7/1860-4 HG7/1860-4 S ¹⁾					● ●
HG7/2110-4 ¹⁾					●

¹⁾ up to +40 °C ambient temperature

Technical data

Unit designation	Protection	Max. output current ¹⁾	Input	Lost heat	Dimensions a / b / c
ESS 25	IP 20 Connectors IP00	25 A	AC 400 V -3- 50/60 Hz	13 W	125 x 45 x 125
ESS 38		38 A		13 W	162 x 55 x 150
ESS 63		63 A		22 W	170 x 71 x 185
ESS 75		75 A		29 W	170 x 71 x 185
ESS 100		100 A		48 W	170 x 71 x 185

¹⁾at +50 °C ambient temperature

Scope of supply:

- Unit programmed ready to operate
- compressor allotment can be set by the potentiometer
- Unit suitable for fitting into a switch cabinet
- Voltage AC 400 V - 3 - 50/60 Hz

Dimensions

