

Installation guide

Electric expansion valve Type ETS 5M



034R9819
 Імпортёр: ТОВ з іі "Данфосс ТОВ" 04080, Київ 80, п/с 168, Україна

034R9819
 Info for UK customers only: Danfoss Ltd., 22 Wycombe End, HP9 1NB, GB

Refrigerants R410A, R22, R32, R290, R454C, R515B, R1234ze, R452B, R1234yf, R452A, R454B, R454A, R455A, R449A, R407C, R134a, R407H, R513A, R449B, R404A, R448A, R463A	Max. working pressure PS / MWP: 4.55 MPa / 45.5 barg / 660 psig			
	Refrigerant temperature $t_{Min.} : -30\text{ }^{\circ}\text{C} / -22\text{ }^{\circ}\text{F}$, $t_{Max.} : 70\text{ }^{\circ}\text{C} / 158\text{ }^{\circ}\text{F}$			
⚠ Safety notes for flammable refrigerants (R454C, R454A, R1234ze, R290, R32, R452B, R454B, R455A, R1234yf) - This product is validated in accordance to ATEX, EN 378, ISO 5149, ASHRAE 15, IEC 60335-2-x or equivalent standards. - Ignition risk is evaluated in accordance to ISO 5149 and IEC 60335. - See safety note below.	Allowable ambient temperature -30 °C / -22 °F - 60 °C / 140 °F		Phase current 240 mA	
	Stepper motor type Unipolar			Resistance 50 Ω
	Nominal voltage 12 V DC			
⚠ Safety notes: - The product can be applied on systems with R454C, R454A, R1234ze, R290, R32, R452B, R454B, R455A, R1234yf as the working fluid. - For countries where safety standards are not an indispensable part of the safety system Danfoss recommend the installer to get a third party approval of the system containing flammable refrigerant. - Note, please follow specific selection criteria stated in the datasheet for these particular refrigerants. - The valve must only be used in closed circuit refrigeration system, where no oxygen is present acc. EN 378, ISO 5149 ASHRAE 15 or IEC 60335-2-x or equivalent standards.	1 Mounting Angle 			
	⚠ Warning! <p>Do not connect directly to AC / DC power source. Connect valve to appropriate controller / driver only. Do not operate valve while assembling or disassembling.</p>			

2 Open position

Always open valve to overdrive before brazing using manual coil.

ETS 5M manual coil: Code no. 034G3803

3 Brazing option 1

Brazing option 2

N₂ gas from opposite side of soldering point.

4 Assembling

5 Connection

JST XHP-5

JST XHP-6

Table:1 Stepper motor open and close sequence

	Yellow (A1)	Orange (A2)	Brown (B1)	Black (B2)	Red (Com)	
Valve Opening ↓	ON	OFF	OFF	OFF	0	Valve Closing ↑
	ON	OFF	ON	OFF	0	
	OFF	OFF	ON	OFF	0	
	OFF	ON	ON	OFF	0	
	OFF	ON	OFF	OFF	0	
	OFF	ON	OFF	ON	0	
	OFF	OFF	OFF	ON	0	
	ON	OFF	OFF	ON	0	

E (2 : 1)

Plug Coding

JST XHP-6: 1 2 3 4 5 6
JST XHP-5: 1 2 3 4 5

Color coding

JST 5/6

- 5/6: RED - Common
- /5: No wire -
- 4/4: Yellow - Coil A1
- 3/3: Black - Coil B2
- 2/2: Orange - Coil A2
- 1/1: Brown - Coil B1