

Danfoss ETS 5T14L electric expansion valve, R744 CO2, 5/16 in (7.94 mm) ODM solder, stepper, 140 bar MWP (034G6805)

Brand: Danfoss Part No: 034G6805 HS: 8481.80
HVAC & Refrigeration — Expansion Valves

Description

Danfoss ETS 5T14L electric (stepper-motor) expansion valve for transcritical R744 (CO2) systems, code 034G6805. In-line valve with 5/16 in (7.94 mm) solder ODM inlet and outlet in Cu-plated stainless steel, 1.4 mm orifice, bi-flow with a linear flow characteristic. Permanent-magnet stepper motor (480 half steps) gives precise CO2 liquid/gas injection control for booster racks, ejector systems and CO2 heat pumps. Rated capacity 13.73 kW (3.9 TR) at R744 conditions. Max. working pressure 140 bar (2030 psig), MaxOPD 120 bar (1740 psig) forward and reverse. Refrigerant and ambient -40 to 80 °C. Driven by a Danfoss EKE-series driver (EKE 1A/1B/1C/100) or EIM 336, ordered separately. OEM P/N 034G6805.

Specifications

Type	Electric expansion valve, ETS 5T14L (ETS 5T)
Code number	034G6805
Function	stepper-motor expansion valve for R744 (CO2) liquid/gas injection control
Refrigerant	R744 (CO2), transcritical
Inlet connection	5/16 in (7.94 mm), Solder ODM
Outlet connection	5/16 in (7.94 mm), Solder ODM
Connection material	Cu-plated stainless steel
Max. working pressure (PS/MWP)	140 bar (2030 psig)
MaxOPD (max. operating pressure differential): 120 bar (1740 psig), forward and reverse	
Rated capacity R744	13.73 kW (3.9 TR)
Orifice size	1.4 mm
Flow characteristic	Linear
Flow direction	Bi-flow
Max. leakage	150 cm³/min
Motor	permanent-magnet stepper motor
Total steps	480 (half steps)
Excitation modes	1-2 (half step), 2-2 (full step)
Refrigerant temperature range	-40 to 80 °C (-40 to 176 °F)
Ambient temperature range	-40 to 80 °C (-40 to 176 °F)
Storage temperature range	-30 to 65 °C
Lubricant compatibility	PAG, POE
Compatible drivers/controllers	Danfoss EKE 1A / EKE 1B / EKE 1C / EKE 100, EIM 336 (ordered separately)
EAN	5715255036036

Standards & Approvals

Standards: EN 60730-1, PED 2014/68/EU (Article 4 paragraph 3), EU RoHS
Approvals: EU RoHS

