

**034G4211****Electric expansion valve, ETS 12.5**

AB; MO; PAG; POE; PAO; PVE, Refrigerant temperature [°C] [max]: 65, Refrigerant temperature [°F] [max]: 150, Inlet size [mm]: 22, Outlet size [mm]: 22, Inlet size [in]: 7/8 in, Outlet size [in]: 7/8 in

PRODUCT DETAILS

Gross weight	1.06 Kilogram
Net weight	0.912 Kilogram
Volume	3.356 Liter
EAN	5702428825672
Type	ETS 12.5
Product group	Expansion valves
Product Name Description	Electric expansion valve
Ambient temperature range [°C] [max]	60 °C
Ambient temperature range [°C] [min]	-40 °C
Ambient temperature range [°F] [max]	140 °F
Ambient temperature range [°F] [min]	-40 °F
Approval	CE EAC LLC CDC TYSK UKCA UL
Balanced port [Yes/No]	No
CE mark	Yes
China RoHS compliance	Yes with exemptions
China RoHS exemption clause	7.3
Compatible Danfoss controllers	EKE 1A EKE 1B EKE 1C
Connection material	Copper
Contains batteries	No
Direction	Straightway
Electrical conn. Male/Female	Male
Electrical connection	M12
Electrical connection size	4 pin
Enclosure rating IP	IP67
EU RoHS compliance	Yes with exemptions
EU RoHS exemption clause	6(c)
Flow direction	Bi-flow
Flow direction indicator	Embossed 2-way arrow
Fluid Group	2

Danfoss can accept no responsibility for possible errors in catalogs, brochures and other printed material. Danfoss reserves the right to alter its products without notice. This also applies to products already on order provided that such alterations can be made without sub-sequential changes being necessary in specifications already agreed. All trademarks in this material are property of the respective companies. Danfoss and the Danfoss logotype are trademarks of Danfoss A/S. All rights reserved.

Product Detail | Electric expansion valve, ETS 12.5

PRODUCT DETAILS

Full travel time speed [s] [max]	17 s
Full travel time speed [s] [min]	8.5 s
Inlet connection type	Solder ODF
Inlet size [in]	7/8 in
Inlet size [mm]	22 mm
Lubricants compatibility	MO POE AB PAG PAO PVE
Manual operation option	AST-G service driver
Max allowed duty cycle [%]	100 %
Max tot PowerCons CurrDrive[W]	1.3 W
Max tot PowerCons VoltDrive[W]	5.5 W
Max. Working Pressure [bar]	45.5 bar
Max. Working Pressure [psig]	660 psig
MaxOPD [bar]	33 bar
MaxOPD [psi]	478.6 psi
MaxOPD reverse [bar]	33 bar
MaxOPD reverse [psi]	478.6 psi
Motor type	Bi-polar
Outlet connection type	Solder ODF
Outlet size [in]	7/8 in
Outlet size [mm]	22 mm
Packing format	Multi pack
PED category	I
Phase current (peak) [mA]	141 mA
Phase current (RMS) [mA]	100 mA
Phase inductance [μH]	85000 μH
Product accessories	Stepper valve accessories
Quantity per packing format	6 pc
Rated cap. cond. note	Full stroke open, normal flow
Rated cap. conditions [IMP]	tcond=90 °F tevap=40 °F tliq=82 °F
Rated cap. conditions [SI]	tcond=32 °C tevap=5 °C tliq=28 °C
Rated cap. R404A/R507A [kW]	43 kW
Rated cap. R404A/R507A [TR]	12 TR
Rated capacity R134a [kW]	45 kW
Rated capacity R134a [TR]	13 TR
Rated capacity R22 [kW]	57 kW
Rated capacity R22 [TR]	16 TR
Rated capacity R407C [kW]	63 kW
Rated capacity R407C [TR]	18 TR
Rated capacity R410A [kW]	70 kW
Rated capacity R410A [TR]	20 TR
REACH Candidate List substances	Lead (CAS no. 7439-92-1)
Refrigerant temperature [°C] [max]	65 °C
Refrigerant temperature [°C] [min]	-40 °C

Danfoss can accept no responsibility for possible errors in catalogs, brochures and other printed material. Danfoss reserves the right to alter its products without notice. This also applies to products already on order provided that such alterations can be made without sub-sequential changes being necessary in specifications already agreed. All trademarks in this material are property of the respective companies. Danfoss and the Danfoss logotype are trademarks of Danfoss A/S. All rights reserved.

Product Detail | Electric expansion valve, ETS 12.5**PRODUCT DETAILS**

Refrigerant temperature [°F] [max]	150 °F
Refrigerant temperature [°F] [min]	-40 °F
Refrigerants	R1234ze(E), R134a, R22, R404A, R407A, R407C, R407F, R407H, R410A, R417A, R422A, R422B, R422D, R438A, R442A, R448A, R449A, R449B, R450A, R452A, R463A, R507A, R513A, R513B, R515A, R515B
Resistance [kOhm]	0.1 kOhm
SCIP dossier no.	e3ad9fd7-71e7-4510-9bd9-560a85cda8bf
SCIP dossier product name	ETS 12,5-25 KVS 15 - electric expansion valve
Serviceable	Stepper valve spare parts
Step mode	2-phase full step
Total steps	2625 (full steps)
UL approved refrigerants	R134a, R22, R404A, R407A, R407C, R407F, R410A, R422B, R422D, R438A, R448A, R449A, R450A, R452A, R507A, R513A
UL mark	Yes
Voltage [V] DC [max]	13.8 V
Voltage [V] DC [min]	11.5 V

For Documents, Software, Visuals and more information, please use this link to visit the product page on Danfoss Product Store [🔗](#)

Accessories

We're sorry, but the requested information is currently unavailable.

This may be because accessories for this product are not available or the data is incomplete.

For the latest and most accurate information, please visit store.danfoss.com.

Thank you for your understanding.

For more information, please use this link to visit the product page on Danfoss Product Store [🔗](#)

Danfoss can accept no responsibility for possible errors in catalogs, brochures and other printed material. Danfoss reserves the right to alter its products without notice. This also applies to products already on order provided that such alterations can be made without sub-sequential changes being necessary in specifications already agreed. All trademarks in this material are property of the respective companies. Danfoss and the Danfoss logotype are trademarks of Danfoss A/S. All rights reserved.