

**034G1721** **Electric expansion valve, ETS 25B**

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

PRODUCT DETAILS

Gross weight	1.75 Kilogram
Net weight	1.469 Kilogram
Volume	6.248 Liter
EAN	5702428826945
Type	ETS 25B
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]	Yes
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	Bi-metal: Steel/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
Fluid Group	2
Full travel time speed [s] [max]	17 s

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Product Detail | Electric expansion valve, ETS 25B

PRODUCT DETAILS

Full travel time speed [s] [min]	8.5 s
Inlet connection type	Solder ODF
Inlet size [in]	7/8 in
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
Packing format	Single 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	1 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]	80.7 kW
Rated cap. R404A/R507A [TR]	23.2 TR
Rated capacity R134a [kW]	85 kW
Rated capacity R134a [TR]	24.5 TR
Rated capacity R22 [kW]	107.5 kW
Rated capacity R22 [TR]	31 TR
Rated capacity R407C [kW]	120.3 kW
Rated capacity R407C [TR]	34.6 TR
Rated capacity R410A [kW]	131.2 kW
Rated capacity R410A [TR]	37.9 TR
REACH Candidate List substances	Lead (CAS no. 7439-92-1) Cobalt dichloride (CAS no. 7646-79-9)
Refrigerant temperature [°C] [max]	65 °C
Refrigerant temperature [°C] [min]	-40 °C
Refrigerant temperature [°F] [max]	150 °F
Refrigerant temperature [°F] [min]	-40 °F

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Product Detail | Electric expansion valve, ETS 25B**PRODUCT DETAILS****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.	d3520765-af84-437b-b00a- bc785386f3ad
SCIP dossier product name	ETS 12.5-25 with sight glass
Serviceable	Stepper valve spare parts
Sightglass	Yes
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 [↗](#)