

**034G3631** **Electric expansion valve, ETS 400L**

AB; MO; PAG; POE; PAO; PVE, Refrigerant temperature [°C] [max]: 70, Refrigerant temperature [°F] [max]: 158, Inlet size [in]: 2 1/8 in, Outlet size [in]: 2 1/8 in

PRODUCT DETAILS

Gross weight	2.989 Kilogram
Net weight	2.5 Kilogram
Volume	12.708 Liter
EAN	5715162436509
Type	ETS 400L
Product group	Expansion valves
Product Name Description	Electric expansion valve
Ambient temperature range [°C] [max]	70 °C
Ambient temperature range [°C] [min]	-40 °C
Ambient temperature range [°F] [max]	158 °F
Ambient temperature range [°F] [min]	-40 °F
Approval	CE CMIM CRN EAC LLC CDC TYSK UA UKCA UL Recognized
Approval file name	MH7648
Approval file name	MH7648
Balanced port [Yes/No]	Yes
Body material	Brass
CE evaluated	Yes
China RoHS compliance	Out of scope
Compatible Danfoss controllers	AK-XM 208C EKE EKF MCX
Connection material	Copper
Contains batteries	No
Cv value [gal/min]	21.4 gal/min
Direction	Straightway
Electrical conn. Male/Female	Male
Electrical connection	M12

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Product Detail | Electric expansion valve, ETS 400L

PRODUCT DETAILS

Electrical connection size	4 pin
Enclosure rating IP	IP67
EU RoHS compliance	Yes with exemptions
EU RoHS exemption clause	6(c)
Flow characteristic	S-shape
Flow direction	Bi-flow
Flow direction indicator	Arrow embossed
Fluid Group	2
Full travel time CurrDrive [s]	12.7 s
Full travel time VoltDrive [s]	25.4 s
Inlet connection type	Solder ODF
Inlet size [in]	2 1/8 in
Kv value [m ³ /h]	18.5 m ³ /h
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]	6.5 W
Max tot PowerCons VoltDrive[W]	5.5 W
Max. Working Pressure [bar]	37 bar
Max. Working Pressure [psig]	536 psig
MaxOPD [bar]	26 bar
MaxOPD [psi]	377 psi
MaxOPD reverse CurrDrive [bar]	10 bar
MaxOPD reverse CurrDrive [psi]	145 psi
MaxOPD reverse VoltDrive [bar]	10 bar
MaxOPD reverse VoltDrive [psi]	145 psi
Motor type	Bi-polar
MWP [bar] CRN	32 bar
MWP [psig] CRN	463 psig
Operating current max. [A]	0.5 A
Outlet connection type	Solder ODF
Outlet size [in]	2 1/8 in
Packing format	Single pack
PED category	I
Phase current (peak) [mA]	283 mA
Phase current (RMS) [mA]	200 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 capacity R1234ze [kW]	854 kW

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Product Detail | Electric expansion valve, ETS 400L

PRODUCT DETAILS

Rated capacity R1234ze [TR]	246 TR
Rated capacity R134a [kW]	1095 kW
Rated capacity R134a [TR]	311 TR
Rated capacity R513A [kW]	943 kW
Rated capacity R513A [TR]	271 TR
Rated capacity R515B [kW]	830 kW
Rated capacity R515B [TR]	239 TR
REACH Candidate List substances	Lead (CAS no. 7439-92-1) Cobalt dichloride (CAS no. 7646-79-9)
Refrigerant temperature [°C] [max]	70 °C
Refrigerant temperature [°C] [min]	-40 °C
Refrigerant temperature [°F] [max]	158 °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.	c81a3c50-9710-4373- be75-2652b16aea76
SCIP dossier product name	ETS 175L-550L with sight glass
Serviceable	Stepper valve spare parts
Sightglass	Yes
Step mode	2-phase full step
Total steps	3810 (full steps)
UL approved refrigerants	R1234ze(E) R134a R22 R404A R407A R407C R407F

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PRODUCT DETAILS

	R407H
	R410A
	R417A
	R422A
	R422B
	R422D
	R438A
	R442A
	R448A
	R449A
	R449B
	R450A
	R452A
	R463A
	R507A
	R513A
	R513B
	R515A
	R515B
UL evaluated	Yes
Voltage [V] DC	12 V

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