



**034G3630**

**Electric expansion valve, ETS 400L**

Inlet connection type: Solder ODF, Inlet size [in]: 1 5/8 in, Outlet size [in]: 1 5/8 in

**PRODUCT DETAILS**

<b>Gross weight</b>	2.842 Kilogram
<b>Net weight</b>	2.35 Kilogram
<b>Volume</b>	12.708 Liter
<b>EAN</b>	5715162436493
<b>Ambient temperature range [°C] [max]</b>	70 °C
<b>Ambient temperature range [°C] [min]</b>	-40 °C
<b>Ambient temperature range [°F] [Max]</b>	158 °F
<b>Ambient temperature range [°F] [Min]</b>	-40 °F
<b>Approval</b>	CE CMIM CRN EAC LLC CDC TYSK UA UKCA UL recognized
<b>Approval file name</b>	MH7648
<b>Approval file name</b>	MH7648
<b>Balanced port [Yes/No]</b>	Yes
<b>Body material</b>	Brass
<b>Category</b>	I
<b>CE evaluated</b>	Yes
<b>China RoHS compliance</b>	Out of scope
<b>Compatible Danfoss controllers</b>	AK-XM 208C EKE EKF MCX
<b>Connection material</b>	Copper
<b>Contain batteries</b>	No
<b>Cv value [gal/min]</b>	21.4 gal/min
<b>Direction</b>	Straightway
<b>Electrical conn. Male/Female</b>	Male
<b>Electrical connection</b>	M12
<b>Electrical connection size</b>	4 pin
<b>Enclosure rating IP</b>	IP67

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<b>EU RoHS compliance</b>	Yes with exemptions
<b>EU RoHS exemption clause</b>	6(c)
<b>Flow characteristic</b>	S-shape
<b>Flow direction</b>	Bi-flow
<b>Flow direction indicator</b>	Arrow embossed
<b>Fluid Group</b>	2
<b>Full travel time CurrDrive [s]</b>	12.7 s
<b>Full travel time VoltDrive [s]</b>	25.4 s
<b>Inlet connection type</b>	Solder ODF
<b>Inlet size [in]</b>	1 5/8 in
<b>Kv value [m<sup>3</sup>/h]</b>	18.5 m <sup>3</sup> /h
<b>Lubricants compatibility</b>	MO POE
<b>Manual operation option</b>	AST-G service driver
<b>Max allowed duty cycle [%]</b>	100 %
<b>Max tot PowerCons CurrDrive[W]</b>	6.5 W
<b>Max tot PowerCons VoltDrive[W]</b>	5.5 W
<b>Max. Working Pressure [bar]</b>	37 bar
<b>Max. Working Pressure [psig]</b>	536 psig
<b>MaxOPD [bar]</b>	26 bar
<b>MaxOPD [psi]</b>	377 psi
<b>MaxOPD reverse CurrDrive [bar]</b>	10 bar
<b>MaxOPD reverse CurrDrive [psi]</b>	145 psi
<b>MaxOPD reverse VoltDrive [bar]</b>	10 bar
<b>MaxOPD reverse VoltDrive [psi]</b>	145 psi
<b>Motor type</b>	Bi-polar
<b>MWP [bar] CRN</b>	32 bar
<b>MWP [psig] CRN</b>	463 psig
<b>Operating current max. [A]</b>	0.5 A
<b>Outlet connection type</b>	Solder ODF
<b>Outlet size [in]</b>	1 5/8 in
<b>Packing format</b>	Single pack
<b>Phase current (peak) [mA]</b>	283 mA
<b>Phase current (RMS) [mA]</b>	200 mA
<b>Phase inductance [μH]</b>	85000 μH
<b>Product accessories</b>	Stepper valve accessories
<b>Product group</b>	Expansion valves
<b>Product name</b>	Electric expansion valve
<b>Quantity per packing format</b>	1 pc
<b>Rated cap. cond. note</b>	Full stroke open, normal flow
<b>Rated cap. conditions [IMP]</b>	tcond=90 °F tevap=40 °F tliq=82 °F
<b>Rated cap. conditions [SI]</b>	tcond=32 °C tevap=5 °C tliq=28 °C
<b>Rated capacity R1234ze [kW]</b>	854 kW
<b>Rated capacity R1234ze [TR]</b>	246 TR
<b>Rated capacity R134a [kW]</b>	1095 kW
<b>Rated capacity R134a [TR]</b>	311 TR
<b>Rated capacity R513A [kW]</b>	943 kW
<b>Rated capacity R513A [TR]</b>	271 TR

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<b>Rated capacity R515B [kW]</b>	830 kW
<b>Rated capacity R515B [TR]</b>	239 TR
<b>REACH Candidate List substances</b>	Lead (CAS no. 7439-92-1) Cobalt dichloride (CAS no. 7646-79-9)
<b>Refrigerant temperature [°C] [Max]</b>	70 °C
<b>Refrigerant temperature [°C] [Min]</b>	-40 °C
<b>Refrigerant temperature [°F] [Max]</b>	158 °F
<b>Refrigerant temperature [°F] [Min]</b>	-40 °F
<b>Refrigerants</b>	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
<b>Resistance [kOhm]</b>	0.1 kOhm
<b>SCIP dossier no.</b>	c81a3c50-9710-4373- be75-2652b16aea76
<b>SCIP dossier product name</b>	ETS 175L-550L with sight glass
<b>Serviceable</b>	Stepper valve spare parts
<b>Sightglass</b>	Yes
<b>Step mode</b>	2-phase full step
<b>Total steps</b>	3810 (full steps)
<b>Type</b>	ETS 400L
<b>UL approved refrigerants</b>	R1234ze(E) R134a R22 R404A R407A R407C R407F R407H R410A R417A R422A

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PRODUCT DETAILS

	R422B
	R422D
	R438A
	R442A
	R448A
	R449A
	R449B
	R450A
	R452A
	R463A
	R507A
	R513A
	R513B
	R515A
	R515B
<b>UL evaluated</b>	Yes
<b>Voltage [V] DC</b>	12 V

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