



Danfoss T1 Electrohydraulic Two Position Controls Owner's Manual

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MAKING MODERN LIVING POSSIBLE
Electrical Installation
Series 51 Motor
Electrohydraulic Two-Position
Controls T1, T2



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T1 Electrohydraulic Two Position Controls

Revision history

Table of revisions

Date	Changed	Rev
August 2015	Converted to Danfoss layout	BA
April 2007	First edition	AA

Literature references

S51 electrohydraulic two-position controls T1, T2 literature references

Literature title	Description	Literature number
<i>S51 and 51-1 Bent Axis Variable Displacement Motors Technical Information</i>	Complete product electrical and mechanical specifications	520L0440
<i>On/Off Functions Function Block User Manual</i>	Compliant function block set-up information	11022918

Latest version of technical literature

Danfoss product literature is online at: <http://powersolutions.danfoss.com/literature/>

Product overview

Product image

S51 electrohydraulic two-position controls T1, T2

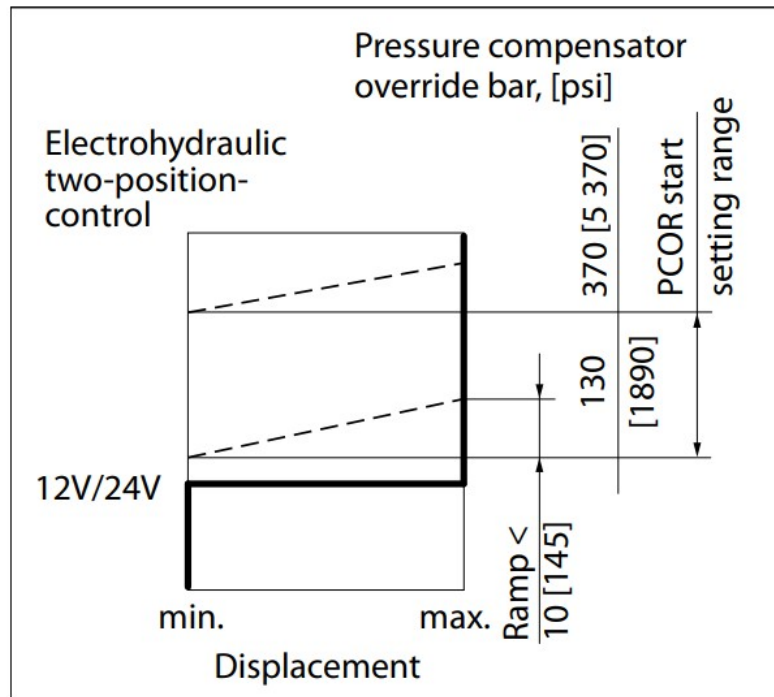
A shuttle valve ahead of the pressure compensator prevents operation in the deceleration direction (when motor is running in pump mode). This is designed to prevent rapid or uncontrolled deceleration while the vehicle/machine is slowing down. The shuttle valve must be controlled by a 2-line external signal. Pressure compensator override with brake pressure defeat is mainly used in systems with pumps having electric or hydraulic proportional controls or automotive controls.

T*C2

Pressure compensator configuration: T*C2 without brake pressure defeat

Pressure compensator functions when the motor is running in motor mode as well as in pump (deceleration) mode.

Control operation T1, T2****



P001 872E

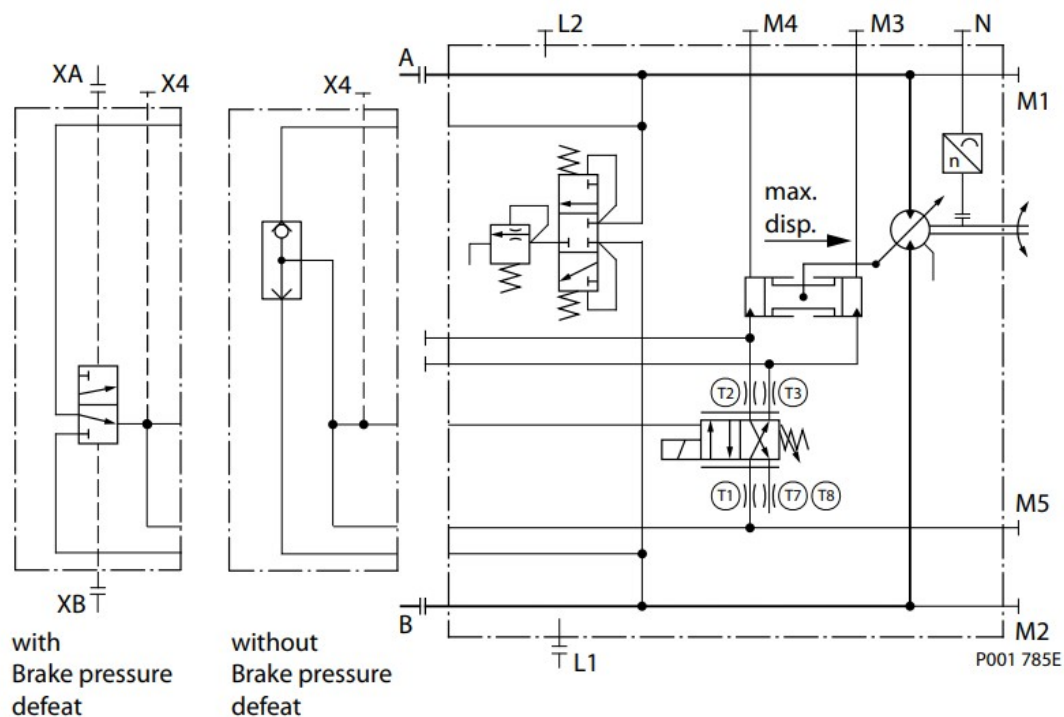


Warning

Unintended vehicle or machine movement hazard. The loss of hydrostatic drive line power, in any mode of operation (forward, neutral, or reverse) may cause the system to lose hydrostatic braking capacity. You must provide a braking system, redundant to the hydrostatic transmission, sufficient to stop and hold the vehicle or machine in the event of hydrostatic drive power loss.

Hydraulic schematics

Circuit diagram – motor with electrohydraulic two-position control T1**, T2**



Ports:

A, B = Main pressure lines

L1, L2 = Drain lines

M1, M2 = Gauge port for A and B

M3, M4 = Gauge port servo pressure

M5 = Gauge port servo supply

XA, XB = Control pressure ports, brake pressure defeat

T1, T2, T3, T7, T8 = Optional orifices

N = Speed sensor

Electrical specifications

Two-position solenoid

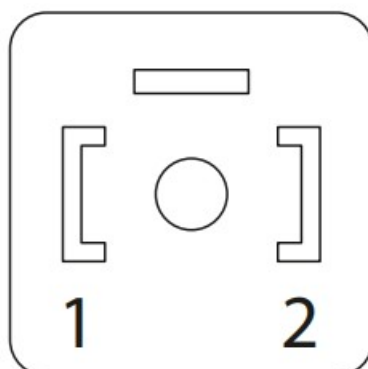
M-option	T1	T2
Voltage	12 Vdc	24 Vdc
Rated power	34 W	34 W

Electrical installation

Pinout

DIN 43650 connector

Pin location



Pinout

Pin	Function
1	PWM signal
2	Ground

Pinout (alternative)

Pin	Function
1	Ground
2	PWM signal

Pin compatibility

PLUS+1® module pin type

Pin	Function
1,2	DOUT
1,2	DOUT/PVG Power
1,2	PWMOUT/DOUT/PVG Power supply
1,2	PWMOUT/DOUT/PVGOUT
1,2	Power ground –

Mating connector

DIN 43650 connector parts list

Description	Quantity	Ordering Number
DIN 43650 connector	1	Hirschmann 932 106-100
Mating connector kit	1	Danfoss K09129

Products we offer:

<ul style="list-style-type: none">• Bent Axis Motors• Closed Circuit Axial Piston Pumps and Motors• Displays• Electrohydraulic Power Steering• Electrohydraulics• Hydraulic Power Steering• Integrated Systems• Joysticks and Control Handles	<ul style="list-style-type: none">• Microcontrollers and Software• Open Circuit Axial Piston Pumps• Orbital Motors• PLUS+1® GUIDE• Proportional Valves• Sensors• Steering• Transit Mixer Drives
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T1 Electrohydraulic Two Position Controls, T1, Electrohydraulic Two Position Controls, Two Position Controls, Position Controls, Controls

References

- [ATO Inverter, Solar Inverter, Home Power Inverter | inverter.com](#)
- [Danfoss Power Solutions – Explore our power solutions | Danfoss](#)
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