



Danfoss PC 78xA IDCM Programming Software User Guide

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Danfoss PC 78xA IDCM Programming Software



Specifications

- Model: AK-PC 78xA
- IDCM Programming
- LT IDCM Compressor Setup
- IDCM Compressor AO Setup

LT IDCM Compressor Setup

Follow these steps to set up the LT IDCM Compressor:

1. Ensure 'Speed comp. LT-1 AO' is wired directly to 'PI-2 in voltage' AI.
2. Module and point numbers are used as examples only.

PI Controller Setup

For setting up the LT IDCM Compressor General Purpose PI Controller:

1. Use PI-2 as an example to create 'PI-2 in voltage' AI.
2. Module and point numbers are used as examples only.

PI-2 in Voltage AI Setup

Set up the PI-2 in voltage AI using the following steps:

1. Module and point numbers are used as examples only.

PI-2 Analog Output Setup

To complete the IDCM programming, follow these steps:

FAQ (Frequently Asked Questions)

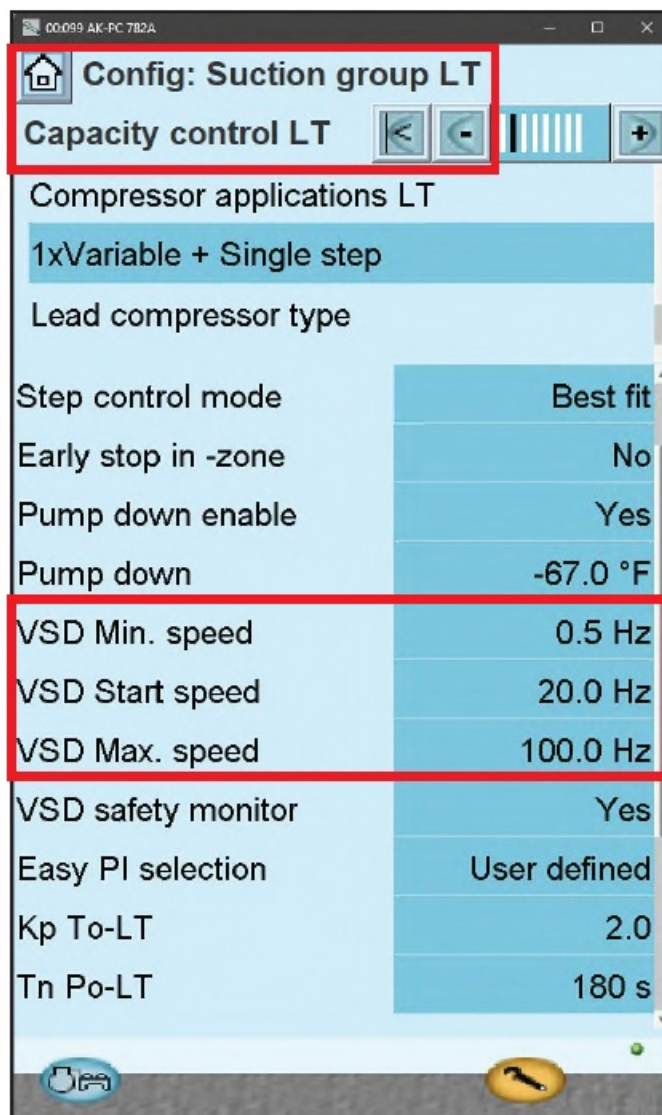
1. Q: What is the purpose of LT IDCM Compressor Setup?

A: The LT IDCM Compressor Setup is designed to configure the compressor settings for optimal performance.

Programming Guide

AK-PC 78xA IDCM programming\

LT IDCM Compressor Setup



IDCM Compressor AO Setup

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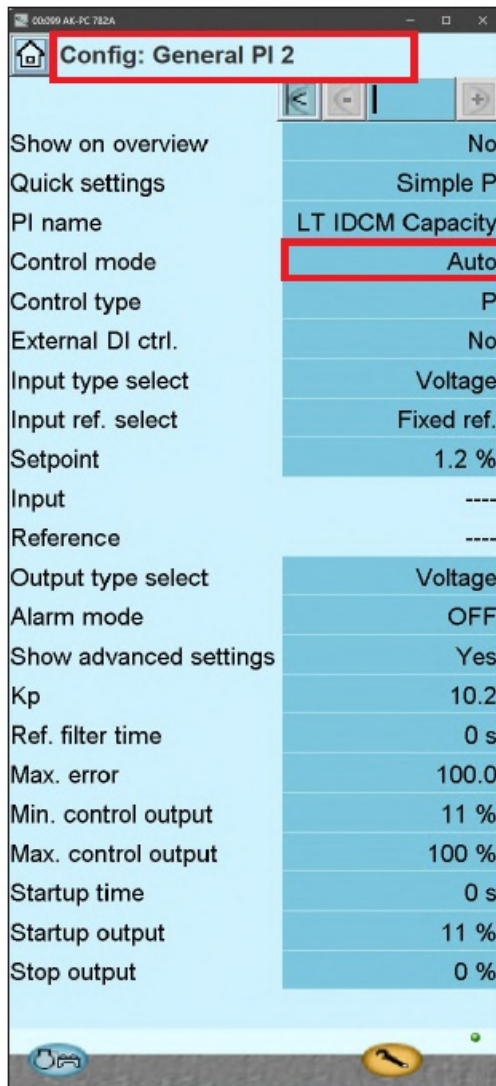
I/O configuration

Analog outputs

Function	Mod.	Pt	Type
Speed comp. MT-1	5 -	5	0 -10 V
Speed comp. LT-1	1 -	24	0 -10 V
Speed comp. IT-1	5 -	6	0 -10 V
Speed comp. IT-2	5 -	7	0 -10 V
Condenser speed	5 -	8	10- 0 V
HP Control			
Vhp	4 -	6	0 -10 V
V3gc	1 -	25	0 -10 V
Vrec 1	7 -	9	CCM-30
Heat recovery			
Speed hr	4 -	7	0 -10 V
Gen. purpose			
PI-1 Voltage	4 -	8	0 -10 V
PI-2 Voltage	4 -	5	1 - 5 V

- 'Speed comp. LT-1 AO' is wired directly to 'PI-2 in voltage' AI created in next step.
- Module and point numbers used as example only.

LT IDCM Compressor Gen Purpose PI Controller Setup




PI-2 used as example only.

← This creates 'PI-2 in voltage' AI.


PI-2 in voltage AI Setup


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I/O configuration

Analog inputs







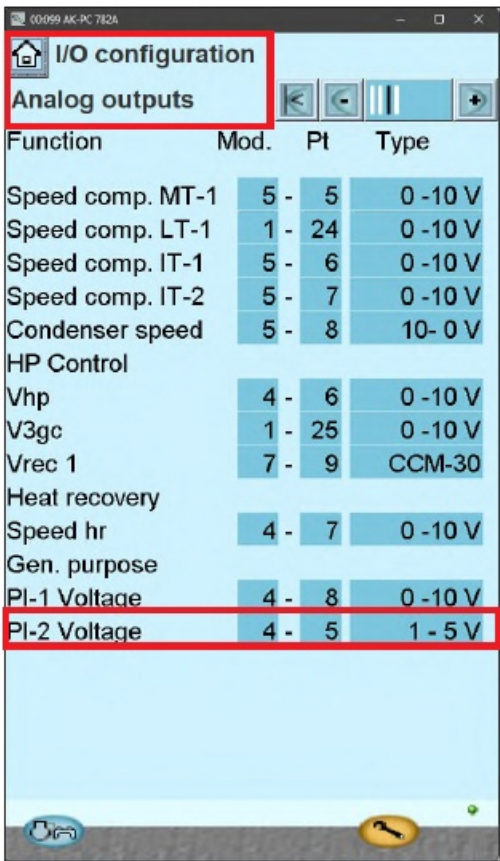


Sensor	Mod.	Pt	Type
Po-MT suction ...	1 - 1	AKS2050-59	
Ss-MT suction ...	1 - 2	Pt 1000	
Sd-MT discharge	1 - 3	Pt 1000	
Po-LT suction	6 - 5	AKS2050-59	
Paux 1	3 - 3	AKS2050-159	
Paux 2	3 - 5	AKS2050-159	
Paux 3	3 - 6	AKS2050-159	
PI-1 in temp.	0 - 0	Pt 1000	
PI-2 in voltage	5 - 4	0 -10 V	

- Module and point numbers used as example only.
- PI-2 used as example only.

PI-2 Analog Output Setup


IDCM programming complete.



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Documents / Resources



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78xA, PC 78xA IDCM Programming Software, 78xA IDCM Programming Software, IDCM Progr amming Software, Programming Software, Software

References

- [User Manual](#)

[Manuals+](#), [Privacy Policy](#)

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