



TOTAL INGENIEROS S.A.C
VENTAS, PROYECTOS, SERVICIOS EN INGENIERIA Y SISTEMAS DE REFRIGERACION

Danfoss



Fact Sheet

Detailed overview of ADAP-KOOL™ Case Controllers



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Expan. device		Power supply		Control principle				Hardware output								
		S/M pack, 115 V AC	S/M pack, 230 V AC	ON - OFF thermostat	MTR - Modulating thermostat	Adaptive Superheat - DX (MSS)	Adaptive liquid control - ALC	Quick setup with application macros/ settings	Nr. Of Digital outputs (relays)	D01	D02	D03	D04	D05	D06	D07
Product type													U/I			
EKC 223	TV							☐		316 (16) A, 10 FLA / 60 LRA 8 A, 2 FLA / 12 LRA at 230 V, 16 FLA / 72 LRA at 115 V		3 A, 2 FLA / 12 LRA				
EKC 224	AKV			☐				☐		416 (16) A, 10 FLA / 60 LRA 8 A, 2 FLA / 12 LRA at 230 V, 16 FLA / 72 LRA at 115 V	416 (6) A, 5 FLA, 30 LRA 48 (6) A, 10 A Resistive, 131 VA Pilot duty	2 A				
EKC 202A				☐				☐		28 (6) A, 5 FLA, 30 LRA	416 (6) A, 5 FLA, 30 LRA					
EKC 202B				☐				☐		38 (6) A, 5 FLA, 30 LRA	8 (6) A, 5 FLA, 30 LRA	6 (3) A, 3 FLA, 18 LRA 8 res. 3 FLA 18 LRA, Load 4 Max 0.5 A, Max 1 x 20 W 8 res. 3 FLA 18 LRA, Load				
EKC 202C				☐				☐		48 (6) A, 5 FLA, 30 LRA	8 (6) A, 5 FLA, 30 LRA	6 (3) A, 3 FLA, 18 LRA 4 (1) A				
EKC 202C-MS				☐				☐			8 (6) A, 10 A Resistive, 5 FLA, 30 LRA 5 FLA, 30 LRA 3 Max 0.5 A, Max 1 x 20 W 8 res. 3 FLA 18 LRA, Load	4 (1) A, 4 A Resistive, 131 VA Pilot duty				
EKC 202D				☐				☐		48 (6) A, 5 FLA, 30 LRA	8 (6) A, 5 FLA, 30 LRA	6 (3) A, 3 FLA, 18 LRA AKV for 230 V AC				
EKC 302D				☐				☐			10 (6) A, 5 FLA, 30 LRA AKV for 115 V AC, 2 x 20 W min.: 1 VA, AKV for 230 V AC	Inrush TV-5 80A				
AK-CC 210				☐				☐				8 res. 3 FLA 18 LRA, Load 4 Max 0.5 A, Max 1 x 20 W 8 res. 3 FLA 18 LRA, Load				
AK-CC 250A				☐				☐								
AK-CC 350				☐				☐		416 (6) A, 5 FLA, 30 LRA	6 (3) A, 6 A Resistive, 3 FLA AKV for 230 V AC	18 LRA, 12 VA Resistive, 5 FLA AKV for 115 V AC, 2 x 20 W min.: 1 VA, AKV for 230 V AC				
AK-CC55 Water compact				☐	DIN	☐		☐			18 LRA, 12 VA Resistive, 5 FLA AKV for 115 V AC, 2 x 20 W min.: 1 VA, AKV for 230 V AC					
				☐	DIN	☐		☐		5 Max 0.5 A, Max 1 x 20 W 8 res. 3 FLA 18 LRA, load			8 res. 3 FLA 18 LRA, Load 8 res. 3 FLA 18 LRA, Load			
AK-CC55 Single coil				☐	DIN	☐		☐			AKV for 115 V AC, 2 x 20 W min.: 1 VA, AKV for 230 V AC					
				☐	DIN	☐		☐		5 Max 0.5 A, Max 1 x 20 W 8 res. 3 FLA 18 LRA, Load	8 res. 3 FLA 18 LRA, Load 8 res. 3 FLA 18 LRA, Load		8 res. 3 FLA 18 LRA, Load 8 res. 3 FLA 18 LRA, Load			
Coil (UI)																
AK-CC55 Single Coil				☐	DIN	☐		☐		5 Max 0.5 A, Max 1 x 20 W 8 res. 3 FLA 18 LRA, Load	8 res. 3 FLA 18 LRA, Load 8 res. 3 FLA 18 LRA, Load		8 res. 3 FLA 18 LRA, Load 8 res. 3 FLA 18 LRA, Load			
AK-CC55 Single Coil Locked SW				☐	DIN	☐		☐								
AK-CC55 Multi Coil				☐	DIN	☐		☐								
With EKE1P you can use a stepper valve		With external relay (C70=ON) (zero-crossing control disabled)								8 res. 3 FLA 18 LRA, Load		TV-5 80A		8 res. 3 FLA 18 LRA, Load min.: 1 VA, Inrush Load min.: 1 VA		TV-5 80A

With EKE IP you can use a stepper valve With external relay (70=ON) (zero-crossing control disabled)

For more detailed information, please see the respective User Guide.

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Product type	Hardware inputs										Software/Application												Display									
	Programming Key (USB)	Product seonsor S6	User-de ned	AKS11/12/21 - Pt1000 sensor	EKS 111 - PTC 1000/PTC 990	NTC-M2020	EKS 221 - NTC 10000	EKS 211 - NTC 5000	NTC 3000	NTC 2500	NTC 2000	Analogue inputs	Digital inputs	Modbus option module / external adapter	Modbus built-in	LON RS-485 option module	Remote displays - EKA163/164A	Bluetooth connection to AK-CC55 Connect App (via AK-UI55 BLE)	Remote displays - AK-UI55 (Bluetooth, Set or Info)	Humidi er on/o control	Heating thermostat	Second compressor		Hot gas defrost	Coordinated defrost via system (system manager)	Coordinated defrost- local (wire connection)	Adaptive defrost	Application selection switches	Suction pressure optimisation, P0	HACCP Function (Peak log), log of temp. at power on/o		
Product type	2												□ 3	EKA 206								4			□				□			
EKC 223	2												□ 3	EKA 206								4			□				□			
EKC 224	2													EKA 178A		EKA 179A						5			□							
EKC 202A	2												□	EKA 178A		EKA 179A						5			□							
EKC 202B	2												□	EKA 178A		EKA 179A						5			□							
EKC 202C	2												□	EKA 178A		EKA 179A						5			□							
EKC 202C-MS	2												□	EKA 178A		EKA 179A						5			□							
EKC 202D	2												□	EKA 178A		EKA 179A						3			□□							□
EKC 302D	3												□	EKA 178B		EKA 175						3			□□							□
AK-CC 210	3												□	EKA 178A		EKA 179A						10			□□□□							□
AK-CC 250A	3												□		□							10			□□□□							□
AK-CC 350	3												□		□	EKA 175						10			□□□□							□
AK-CC55 Water loop	4												□		□							8			□□□□							□□
AK-CC55 Compact	4												□		□							8			□□		□					□□
AK-CC55 Single coil	5												□		□							9			□□□□□							□□□
Coil (UI)	6														□							9			□□□□□							□□□
AK-CC55 Single	3														□							9			□□□□□							□□□
AK-CC55 Single Coil	3														□							9			□□□□□							□□
AK-CC55 Single Coil UI - Locked SW	3														□							5			□□□□							□□□

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