

Electric Drives and Controls Product Catalog
Frequency converter
IndraDrive Fc



Frequency converter ■ IndraDrive Fc

Documentation



Advantages:

- Sensorless vector control
- Linear V/f curve
- Output frequency 0 Hz to 400 Hz
- Overload capacity: 200% for 5 s and 150% for 60 s
- Continuously adjustable pulse frequency from 3 kHz to 16 kHz

Rexroth IndraDrive Fc is the new, powerful converter series for open loop applications. As presented in a very compact book format, 4 standard frequency converters cover the complete output range from 0.25 kW to 7.5 kW. IndraDrive Fc is setting new standards in its class with extensive functions as well as simple installation, commissioning and operation.

Technical data

Performance data									
Rated capacity	[kW]	0.25	0.37	0.55	0.75	1.1	1.5	2.2	
Continuous rated current ¹⁾	1.4	1.9	2.8	3.7	4.6	5.9	8.6		
Mains connection voltage	1 AC	1 AC 200 ... 240 V (±10 %)							
	3 AC	3 AC 200 ... 240 V (±10 %)							
Frequency		47 ... 63 Hz							
Intermediate circuit									
Intermediate circuit connection		●							
Intermediate circuit voltage	[V] DC	Mains connection voltage x 1.41							
Brake chopper / resistor									
Braking resistance		External							
Continuous braking power	[kW]	0.1							
Maximum braking power	[kW]	0.7				2.2			
Performance data									
Rated capacity	[kW]	0.55	0.75	1.1	1.5	2.2	3	4	
Continuous rated current ¹⁾	1.6	2.1	2.6	3.4	5	6.7	8.8		
Mains connection voltage	3 AC	3 AC 380 ... 480 V (-20 % / +10 %)							
Frequency		47 ... 63 Hz							
Intermediate circuit									
Intermediate circuit connection		●							

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Intermediate circuit voltage	[V] DC	Mains connection voltage x 1.41		
Brake chopper / resistor				
Continuous braking power	[kW]	0.1	0.2	0.4
Maximum braking power	[kW]	1.3	2.6	5.2
		FCS01.1E-W0025-A-04	FCS01.1E-W0032-A-04	
Performance data				
Rated capacity	[kW]	5.5		7.5
Continuous rated current ¹⁾	[A]	11.8		15
Mains connection voltage	3 AC	3 AC 380 ... 480 V (-20 % / +10 %)		
Frequency		47 ... 63 Hz		
Intermediate circuit				
Intermediate circuit connection		●		
Intermediate circuit voltage	[V] DC	Mains connection voltage x 1.41		
Brake chopper / resistor				
Continuous braking power	[kW]	0.6		
Maximum braking power	[kW]	8.6		

All data for nominal rating, starting from 4 Hz rotary frequency. Derating from 6 kHz switching frequency.

The maximum braking power of the brake resistors is based on a rated DC link voltage of 400 V for FCS01.1E-Wxxxx-A-02 and 720 V for FCS01.1E-Wxxxx-A-04

Dimensions

Dimensions

Type	A	E	F	Installation dimension L1	Size
	[mm]	[mm]	[mm]	[mm]	
FCS01.1E-W0003-A-02	76	186	151	220	A
FCS01.1E-W0005-A-02					
FCS01.1E-W0006-A-02					
FCS01.1E-W0008-A-02					
FCS01.1E-W0011-A-02		226		260	B
FCS01.1E-W0015-A-02					
FCS01.1E-W0019-A-02					
FCS01.1E-W0003-A-04					
FCS01.1E-W0005-A-04		186		220	A
FCS01.1E-W0006-A-04					
FCS01.1E-W0008-A-04					
FCS01.1E-W0011-A-04					
FCS01.1E-W0015-A-04	98	241	178	275	C
FCS01.1E-W0019-A-04					
FCS01.1E-W0025-A-04		286		320	D
FCS01.1E-W0032-A-04					

Ordering information

Type code	Description	Material number:
FCS01.1E-W0003-A-02-NNBV	0.25 kW, 1/3x 200 - 240 V, 50/60 Hz, 1.7/3.4 A	R911311054
FCS01.1E-W0005-A-02-NNBV	0.37 kW, 1/3x 200 - 240 V, 50/60 Hz, 2.2/4.4 A	R911311055
FCS01.1E-W0006-A-02-NNBV	0.55 kW, 1/3x 200 - 240 V, 50/60 Hz, 3/6 A	R911311056
FCS01.1E-W0008-A-02-NNBV	0.75 kW, 1/3x 200 - 240 V, 50/60 Hz, 4/8 A	R911311057
FCS01.1E-W0011-A-02-NNBV	1.1 kW, 1/3x 200 - 240 V, 50/60 Hz, 5.5/11 A	R911311058
FCS01.1E-W0015-A-02-NNBV	1.5 kW, 1/3x 200 - 240 V, 50/60 Hz, 7/14 A	R911311059
FCS01.1E-W0019-A-02-NNBV	2.2 kW, 1/3x 200 - 240 V, 50/60 Hz, 9.5/19 A	R911311060
FCS01.1E-W0003-A-04-NNBV	0.55 kW, 3x 380 - 480 V, 50/60 Hz, 1.7/3.4 A	R911311061
FCS01.1E-W0005-A-04-NNBV	0.75 kW, 3x 380 - 480 V, 50/60 Hz, 2.3/4.6 A	R911311062
FCS01.1E-W0006-A-04-NNBV	1.1 kW, 3x 380 - 480 V, 50/60 Hz, 3.1/6.2 A	R911311063
FCS01.1E-W0008-A-04-NNBV	1.5 kW, 3x 380 - 480 V, 50/60 Hz, 4/8 A	R911311064
FCS01.1E-W0011-A-04-NNBV	2.2 kW, 3x 380 - 480 V, 50/60 Hz, 5.5/11 A	R911311065

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Type code	Description	Material number:
FCS01.1E-W0015-A-04-NNBV	3 kW, 3x 380 - 480 V, 50/60 Hz, 7.5/15 A	R911311066
FCS01.1E-W0019-A-04-NNBV	4 kW, 3x 380 - 480 V, 50/60 Hz, 9.5/19 A	R911311067
FCS01.1E-W0025-A-04-NNBV	5.5 kW, 3x 380 - 480 V, 50/60 Hz, 12.5/25 A	R911311068
FCS01.1E-W0032-A-04-NNBV	7.5 kW, 3x 380 - 480 V, 50/60 Hz, 16/32 A	R911311069

Function module

Type code	Description	Material number:
FCC01.1T-STD-NNNN	Standard operating panel: 4x 7 segments, parameter set	R911311070
FCC01.1T-CMF-NNNN	Comfort operating panel: graphics-based, 5 parameter sets	R911311071
FCC01.1F-PB1-NNNN	Fieldbus module: PROFIBUS	R911311072
FCC01.1F-PB2-NNNN	Fieldbus module: PROFIBUS 12 Mbaud (ext. 24 V)	R911311073
FCC01.1F-CN1-NNNN	Fieldbus module: CANopen (ext. 24 V)	R911311074
FCC01.1F-DN1-NNNN	Fieldbus module: DeviceNet (ext. 24 V)	R911311075

Accessories

Type code	Description	Material number:
RKB0005/003,0	PC cable IndraDrive Fc, RS232, 3 m	R911311896
SWA-DTOPFC-INB-01VRS-D0-CD650-COPY	Product CD (includes DriveTop Fc, PDF manuals, etc.)	R911311774
DOK-INDRV*-FCS01*****-IB01-DE-P	IndraControl VEP**.03 project planning manual (DE)	R911310782
DOK-INDRV*-FCS01*****-IB01-EN-P	Operating manual in English, printed version	R911310845
FAS02.1-001-EMC-NN	EMC kit for size A and B	R911315469
FAS02.1-002-EMC-NN	EMC kit for size C and D	R911315470
FAS01.1-001-TMP-NN	Temperature switch for brake resistor, base-mounted version FLR01.1U	R911315466
FLR01.1U-0100-N240R-A-004-NNNN	Brake resistor, base-mounted version for FCS 0.25 and 0.37 kW, 1/3x 200 to 240 V	R911315459
FLR01.1U-0100-N150R-A-004-NNNN	Brake resistor, base-mounted version for FCS 0.55 and 0.75 kW, 1/3x 200 to 240 V	R911315460
FLR01.1U-0200-N75R0-A-004-NNNN	Brake resistor, base-mounted version for FCS 1.1 to 2.2 kW, 1/3x 200 to 240 V	R911315461
FLR01.1U-0100-N400R-A-007-NNNN	Brake resistor, base-mounted version for FCS 0.55 and 0.75 kW, 3x 380 to 480 V	R911315462
FLR01.1U-0200-N220R-A-007-NNNN	Brake resistor, base-mounted version for FCS 1.1 to 2.2 kW, 3x 380 to 480 V	R911315463
FLR01.1N-0400-N100R-A-007-NNNN	Brake resistor, any mounting for FCS 3.0 and 4.0 kW, 3x 380 to 480 V	R911315464
FLR01.1N-0600-N60R0-A-007-NNNN	Brake resistor, any mounting for FCS 5.5 and 7.5 kW, 3x 380 to 480 V	R911315465

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