

**Safety related modules / components**

TYPE CODE number and nomenclature example:

Table 1-Type code example

Type code example	FDU	48	-017	-20	D	E	-	-	O	A	-	N	N	N	N	A	N	-	-	A
Position No	1	2	3	4	5	6	7	8	9	10										

Table 2- Type code variables definition

Position	Configuration	Selections & Description
1	AC drive type	FDU series VFX series FDUL Low Harmonic variant of FDU-series VFXL Low Harmonic variant of VFX-series FDUR Low Harmonic & Regenerating variant of FDU-series VFXR Low Harmonic & Regenerating variant of VFX-series CDU Motor mounted variant based on FDU-series CDX Motor mounted variant based on VFX-series
2	Supply voltage	46=230-480 V mains 48=230-480 V mains 52=440-525 V mains 69=400-690 V mains
3	Rated current (A) continuous	-002=2.0 A to -4K0=4000 A

4	Protection class	20=IP20 - Intended for mounting inside a cabinet 21=IP21 - Intended for wall-mounting 54=IP54 - Intended for wall-mounting
5	Control panel	--=Blank panel D=4-line Control panel, standard IP2X/54 E=4-line Control panel with Bluetooth (option IP2X/54) F=4-line Control panel with WiFi (option IP2X/54)
6	EMC option	E=Standard EMC (Category C3) F=Extended EMC (Category C2) I=IT-Net
7	Brake chopper option	--=No chopper B=Chopper built in D=DC+/- interface
8	Stand-by power supply option	--=No SBS S=SBS included
9	<b>Safe Torque Off option</b>	--=No safe stop O=Safe Torque Off included
10	Customer variations	May be followed by up to 11 character positions (letters or "-" ) which indicate optional features. These options will not influence STO functionality.

OSTO\_100 Module was tested in revision R01 with report: 968/FSP 2222.00/21. (\*1  
It can be used in the following Emotron AC Drives variants:

Revision 01 of OSTO\_100 board comprise of following documents:

9_Coating Drawing_2020-10-09.pdf	R00
25_PCB Spec_2020-10-08.pdf	R00
26_Schematic_2021-01-20.pdf	R01
28_CompPlace_2020-10-08.pdf	R00
29_DrillDraw_2020-10-08.pdf	R00
33_Partslist STO Option Board_2021-01-20.xls	R01

Emotron AC Drive types - correlation table

Table 3- Drive type designations for "OSTO\_100" option

Model	Description	Frame size	Contr. board	OSTO_100 revision
FDU48-025-20	AC Drive 3ph 400V 11kW	C2	V2.1	R01
FDU48-030-20	AC Drive 3ph 400V 15kW			
FDU48-036-20	AC Drive 3ph 400V 18,5kW			
FDU48-045-20	AC Drive 3ph 400V 22kW			
FDU48-058-20	AC Drive 3ph 400V 30kW			
FDU48-072-20	AC Drive 3ph 400V 37kW			
FDU48-088-20	AC Drive 3ph 400V 45kW	D2	V2.1	
FDU48-105-20	AC Drive 3ph 400V 55kW	E2	V2.1	
FDU48-142-20	AC Drive 3ph 400V 75kW			
FDU48-171-20	AC Drive 3ph 400V 90kW			
FDU48-205-20	AC Drive 3ph 400V 110kW	F2	V2.1	
FDU48-244-20	AC Drive 3ph 400V 132kW			
FDU48-293-20	AC Drive 3ph 400V 160kW			
FDU48-365-20	AC Drive 3ph 400V 200kW			
FDU48-003-54	AC Drive 3ph 400V 0,75kW	B	V2.1	R01
FDU48-004-54	AC Drive 3ph 400V 1,5kW			

Model	Description	Frame size	Contr. board	OSTO_100 revision
FDU48-006-54	AC Drive 3ph 400V 2,2kW			
FDU48-008-54	AC Drive 3ph 400V 3kW			
FDU48-010-54	AC Drive 3ph 400V 4kW			
FDU48-013-54	AC Drive 3ph 400V 5,5kW			
FDU48-018-54	AC Drive 3ph 400V 7,5kW			
FDU48-026-54	AC Drive 3ph 400V 11kW			
FDU48-031-54	AC Drive 3ph 400V 15kW	C	V2.1	
FDU48-037-54	AC Drive 3ph 400V 18,5kW			
FDU48-046-54	AC Drive 3ph 400V 22kW			
FDU48-061-54	AC Drive 3ph 400V 30kW	D	V2.1	
FDU48-074-54	AC Drive 3ph 400V 37kW			
FDU48-090-54	AC Drive 3ph 400V 45kW	E	V2.1	
FDU48-109-54	AC Drive 3ph 400V 55kW			
FDU48-146-54	AC Drive 3ph 400V 75kW	E	V2.1	
FDU48-175-54	AC Drive 3ph 400V 90kW			
FDU48-210-54	AC Drive 3ph 400V 110kW			
FDU48-250-54	AC Drive 3ph 400V 132kW	F	V2.1	
FDU48-295-54	AC Drive 3ph 400V 160kW			
FDU48-365-54	AC Drive 3ph 400V 200kW	FA	V2.1	
FDU48-300-20	AC Drive 3ph 400V 160kW	G	V2.1	R01
FDU48-375-20	AC Drive 3ph 400V 200kW			
FDU48-430-20	AC Drive 3ph 400V 220kW	H	V2.1	
FDU48-500-20	AC Drive 3ph 400V 250kW			
FDU48-600-20	AC Drive 3ph 400V 315kW	I	V2.1	
FDU48-650-20	AC Drive 3ph 400V 355kW			
FDU48-750-20	AC Drive 3ph 400V 400kW			
FDU48-860-20	AC Drive 3ph 400V 450kW	J	V2.1	
FDU48-1K0-20	AC Drive 3ph 400V 560kW			
FDU48-1K15-20	AC Drive 3ph 400V 630kW	KA	V2.1	
FDU48-1K25-20	AC Drive 3ph 400V 710kW			
FDU48-1K35-20	AC Drive 3ph 400V 710kW	K	V2.1	
FDU48-1K5-20	AC Drive 3ph 400V 800kW			
FDU48-1K75-20	AC Drive 3ph 400V 900kW	L	V2.1	
FDU48-2K0-20	AC Drive 3ph 400V 1120kW			

Model	Description	Frame size	Contr. board	OSTO_100 revision
FDU48-2K25-20	AC Drive 3ph 400V 1250kW	N	V2.1	
FDU48-2K5-20	AC Drive 3ph 400V 1400kW	O	V2.1	
FDU48-590-IP	AC Drive 3ph 400V 315kW	G2	V2.1	R01
FDU48-660-IP	AC Drive 3ph 400V 355kW	H2	V2.1	
FDU48-730-IP	AC Drive 3ph 400V 400kW	H2	V2.1	
FDU48-810-IP	AC Drive 3ph 400V 450kW	G3	V2.1	
FDU48-885-IP	AC Drive 3ph 400V 500kW	G3	V2.1	
FDU48-1010-IP	AC Drive 3ph 400V 560kW	H3	V2.1	
FDU48-1100-IP	AC Drive 3ph 400V 630kW	H3	V2.1	
FDU48-1300-IP	AC Drive 3ph 400V 710kW	H4	V2.1	
FDU48-1460-IP	AC Drive 3ph 400V 800kW	H4	V2.1	
FDU48-1710-IP	AC Drive 3ph 400V 900kW	H5	V2.1	
FDU48-1820-IP	AC Drive 3ph 400V 1000kW	H5	V2.1	
FDU48-2190-IP	AC Drive 3ph 400V 1200kW	H6	V2.1	
FDU48-2550-IP	AC Drive 3ph 400V 1400kW	H7	V2.1	
FDU48-2920-IP	AC Drive 3ph 400V 1600kW	H8	V2.1	
FDU52-003-54	AC Drive 3ph 525 1,1kW	B	V2.1	R01
FDU52-004-54	AC Drive 3ph 525 2,2kW			
FDU52-006-54	AC Drive 3ph 525 3kW			
FDU52-008-54	AC Drive 3ph 525 4kW			
FDU52-010-54	AC Drive 3ph 525 5,5kW			
FDU52-013-54	AC Drive 3ph 525 7,5kW			
FDU52-018-54	AC Drive 3ph 525 11kW			
FDU52-026-54	AC Drive 3ph 525 15kW	C	V2.1	
FDU52-031-54	AC Drive 3ph 525 18,5kW	C	V2.1	
FDU52-037-54	AC Drive 3ph 525 22kW			
FDU52-046-54	AC Drive 3ph 525 30kW	D	V2.1	
FDU52-061-54	AC Drive 3ph 525 37kW			
FDU52-074-54	AC Drive 3ph 525 45kW			
FDU69-082-54	AC Drive 3ph 525 55kW	F69	V2.1	
FDU69-090-54	AC Drive 3ph 525 55kW			
FDU69-109-54	AC Drive 3ph 525 75kW			
FDU69-146-54	AC Drive 3ph 525 90kW			

Model	Description	Frame size	Contr. board	OSTO_100 revision
FDU69-175-54	AC Drive 3ph 525 110kW			
FDU69-200-54	AC Drive 3ph 525 132kW			
FDU69-002-20	AC Drive 3ph 690V 1,5kW	C2(69)	V2.1	R01
FDU69-003-20	AC Drive 3ph 690V 2,2kW			
FDU69-004-20	AC Drive 3ph 690V 3kW			
FDU69-006-20	AC Drive 3ph 690V 4kW			
FDU69-008-20	AC Drive 3ph 690V 5,5kW			
FDU69-010-20	AC Drive 3ph 690V 7,5kW			
FDU69-013-20	AC Drive 3ph 690V 11kW			
FDU69-018-20	AC Drive 3ph 690V 15kW			
FDU69-021-20	AC Drive 3ph 690V 18,5kW			
FDU69-025-20	AC Drive 3ph 690V 22kW			
FDU69-033-20	AC Drive 3ph 690V 30kW	D2(69)	V2.1	
FDU69-042-20	AC Drive 3ph 690V 37kW			
FDU69-050-20	AC Drive 3ph 690V 45kW			
FDU69-058-20	AC Drive 3ph 690V 55kW			
FDU69-002-54	AC Drive 3ph 690V 1,5kW	C69	V2.1	R01
FDU69-003-54	AC Drive 3ph 690V 2,2kW			
FDU69-004-54	AC Drive 3ph 690V 3kW			
FDU69-006-54	AC Drive 3ph 690V 4kW			
FDU69-008-54	AC Drive 3ph 690V 5,5kW			
FDU69-010-54	AC Drive 3ph 690V 7,5kW			
FDU69-013-54	AC Drive 3ph 690V 11kW	C69	V2.1	
FDU69-018-54	AC Drive 3ph 690V 15kW			
FDU69-021-54	AC Drive 3ph 690V 18,5kW	D69	V2.1	
FDU69-025-54	AC Drive 3ph 690V 22kW			
FDU69-033-54	AC Drive 3ph 690V 30kW			
FDU69-042-54	AC Drive 3ph 690V 37kW			
FDU69-050-54	AC Drive 3ph 690V 45kW			
FDU69-058-54	AC Drive 3ph 690V 55kW	F69	V2.1	
FDU69-082-54	AC Drive 3ph 690V 75kW			
FDU69-090-54	AC Drive 3ph 690V 90kW			
FDU69-109-54	AC Drive 3ph 690V 110kW			

Model	Description	Frame size	Contr. board	OSO_100 revision
FDU69-146-54	AC Drive 3ph 690V 132kW	F69	V2.1	
FDU69-175-54	AC Drive 3ph 690V 160kW			
FDU69-200-54	AC Drive 3ph 690V 200kW			
FDU69-250-20	AC Drive 3ph 690V 250kW	H69	V2.1	
FDU69-300-20	AC Drive 3ph 690V 315kW			
FDU69-375-20	AC Drive 3ph 690V 355kW			
FDU69-400-20	AC Drive 3ph 690V 400kW	I69	V2.1	
FDU69-430-20	AC Drive 3ph 690V 450kW			
FDU69-500-20	AC Drive 3ph 690V 500kW	I69	V2.1	
FDU69-595-20	AC Drive 3ph 690V 600kW			
FDU69-650-20	AC Drive 3ph 690V 630kW	J69	V2.1	
FDU69-720-20	AC Drive 3ph 690V 710kW			
FDU69-800-20	AC Drive 3ph 690V 800kW	J69	V2.1	
FDU69-905-20	AC Drive 3ph 690V 900kW			
FDU69-995-20	AC Drive 3ph 690V 1000kW	KA69	V2.1	
FDU69-1K2-20	AC Drive 3ph 690V 1200kW			
FDU69-1K4-20	AC Drive 3ph 690V 1400kW	L69	V2.1	
FDU69-1K6-20	AC Drive 3ph 690V 1600kW			
FDU69-1K8-20	AC Drive 3ph 690V 1800kW	M69	V2.1	
FDU69-2K0-20	AC Drive 3ph 690V 2000kW			
FDU69-2K2-20	AC Drive 3ph 690V 2200kW	N69	V2.1	
FDU69-2K4-20	AC Drive 3ph 690V 2400kW			
FDU69-2K6-20	AC Drive 3ph 690V 2600kW	O69	V2.1	
FDU69-2K8-20	AC Drive 3ph 690V 2800kW			
FDU69-3K0-20	AC Drive 3ph 690V 3000kW	P69	V2.1	
		Q69	V2.1	
		R69	V2.1	
		S69	V2.1	
		T69	V2.1	
VFX48-025-20	AC Drive 3ph 400V 11kW	C2	V2.1	R01
VFX48-030-20	AC Drive 3ph 400V 15kW			
VFX48-036-20	AC Drive 3ph 400V 18,5kW			
VFX48-045-20	AC Drive 3ph 400V 22kW			
VFX48-058-20	AC Drive 3ph 400V 30kW			
VFX48-072-20	AC Drive 3ph 400V 37kW	D2	V2.1	
VFX48-088-20	AC Drive 3ph 400V 45kW			
VFX48-105-20	AC Drive 3ph 400V 55kW			
VFX48-142-20	AC Drive 3ph 400V 75kW	E2	V2.1	

Model	Description	Frame size	Contr. board	OSTO_100 revision
VFX48-171-20	AC Drive 3ph 400V 90kW	F2	V2.1	
VFX48-205-20	AC Drive 3ph 400V 110kW			
VFX48-244-20	AC Drive 3ph 400V 132kW			
VFX48-293-20	AC Drive 3ph 400V 160kW			
VFX48-365-20	AC Drive 3ph 400V 200kW			
		FA2	V2.1	
VFX48-003-54	AC Drive 3ph 400V 0,75kW	B	V2.1	R01
VFX48-004-54	AC Drive 3ph 400V 1,5kW			
VFX48-006-54	AC Drive 3ph 400V 2,2kW			
VFX48-008-54	AC Drive 3ph 400V 3kW			
VFX48-010-54	AC Drive 3ph 400V 4kW			
VFX48-013-54	AC Drive 3ph 400V 5,5kW			
VFX48-018-54	AC Drive 3ph 400V 7,5kW			
VFX48-026-54	AC Drive 3ph 400V 11kW			
VFX48-031-54	AC Drive 3ph 400V 15kW			
VFX48-037-54	AC Drive 3ph 400V 18,5kW			
VFX48-046-54	AC Drive 3ph 400V 22kW	C	V2.1	
VFX48-061-54	AC Drive 3ph 400V 30kW			
VFX48-074-54	AC Drive 3ph 400V 37kW			
VFX48-090-54	AC Drive 3ph 400V 45kW	D	V2.1	
VFX48-109-54	AC Drive 3ph 400V 55kW			
VFX48-146-54	AC Drive 3ph 400V 75kW			
VFX48-175-54	AC Drive 3ph 400V 90kW			
VFX48-210-54	AC Drive 3ph 400V 110kW	E	V2.1	
VFX48-250-54	AC Drive 3ph 400V 132kW			
VFX48-295-54	AC Drive 3ph 400V 160kW	F	V2.1	
VFX48-365-54	AC Drive 3ph 400V 200kW			
		FA	V2.1	
VFX48-300-20	AC Drive 3ph 400V 160kW	G	V2.1	R01
VFX48-375-20	AC Drive 3ph 400V 200kW			
VFX48-430-20	AC Drive 3ph 400V 220kW			
VFX48-500-20	AC Drive 3ph 400V 250kW	H	V2.1	
VFX48-600-20	AC Drive 3ph 400V 315kW			
VFX48-650-20	AC Drive 3ph 400V 355kW			
VFX48-750-20	AC Drive 3ph 400V 400kW			
		I	V2.1	



Model	Description	Frame size	Contr. board	OSTO_100 revision
VFX48-860-20	AC Drive 3ph 400V 450kW	J	V2.1	
VFX48-1K0-20	AC Drive 3ph 400V 560kW			
VFX48-1K15-20	AC Drive 3ph 400V 630kW	KA	V2.1	
VFX48-1K25-20	AC Drive 3ph 400V 710kW			
VFX48-1K35-20	AC Drive 3ph 400V 710kW	K	V2.1	
VFX48-1K5-20	AC Drive 3ph 400V 800kW			
VFX48-1K75-20	AC Drive 3ph 400V 900kW	L	V2.1	
VFX48-2K0-20	AC Drive 3ph 400V 1120kW	M	V2.1	
VFX48-2K25-20	AC Drive 3ph 400V 1250kW	N	V2.1	
VFX48-2K5-20	AC Drive 3ph 400V 1400kW	O	V2.1	
VFX48-590-IP	AC Drive 3ph 400V 315kW	G2	V2.1	R01
VFX48-660-IP	AC Drive 3ph 400V 355kW	H2	V2.1	
VFX48-730-IP	AC Drive 3ph 400V 400kW	H2	V2.1	
VFX48-810-IP	AC Drive 3ph 400V 450kW	G3	V2.1	
VFX48-885-IP	AC Drive 3ph 400V 500kW	G3	V2.1	
VFX48-1010-IP	AC Drive 3ph 400V 560kW	H3	V2.1	
VFX48-1100-IP	AC Drive 3ph 400V 630kW	H3	V2.1	
VFX48-1300-IP	AC Drive 3ph 400V 710kW	H4	V2.1	
VFX48-1460-IP	AC Drive 3ph 400V 800kW	H4	V2.1	
VFX48-1710-IP	AC Drive 3ph 400V 900kW	H5	V2.1	
VFX48-1820-IP	AC Drive 3ph 400V 1000kW	H5	V2.1	
VFX48-2190-IP	AC Drive 3ph 400V 1200kW	H6	V2.1	
VFX48-2550-IP	AC Drive 3ph 400V 1400kW	H7	V2.1	
VFX48-2920-IP	AC Drive 3ph 400V 1600kW	H8	V2.1	
VFX52-003-54	AC Drive 3ph 525 1,1kW	B	V2.1	R01
VFX52-004-54	AC Drive 3ph 525 2,2kW			
VFX52-006-54	AC Drive 3ph 525 3kW	B	V2.1	
VFX52-008-54	AC Drive 3ph 525 4kW			
VFX52-010-54	AC Drive 3ph 525 5,5kW			
VFX52-013-54	AC Drive 3ph 525 7,5kW			
VFX52-018-54	AC Drive 3ph 525 11kW			
VFX52-026-54	AC Drive 3ph 525 15kW	C	V2.1	
VFX52-031-54	AC Drive 3ph 525 18,5kW			

Model	Description	Frame size	Contr. board	OSO_100 revision
VFX52-037-54	AC Drive 3ph 525 22kW	D	V2.1	
VFX52-046-54	AC Drive 3ph 525 30kW			
VFX52-061-54	AC Drive 3ph 525 37kW			
VFX52-074-54	AC Drive 3ph 525 45kW			
VFX69-082-54	AC Drive 3ph 525 55kW	F69	V2.1	
VFX69-090-54	AC Drive 3ph 525 55kW	F69	V2.1	
VFX69-109-54	AC Drive 3ph 525 75kW			
VFX69-146-54	AC Drive 3ph 525 90kW	F69	V2.1	
VFX69-175-54	AC Drive 3ph 525 110kW			
VFX69-200-54	AC Drive 3ph 525 132kW			
VFX69-002-20	AC Drive 3ph 690V 1,5kW	C2(69)	V2.1	R01
VFX69-003-20	AC Drive 3ph 690V 2,2kW			
VFX69-004-20	AC Drive 3ph 690V 3kW			
VFX69-006-20	AC Drive 3ph 690V 4kW			
VFX69-008-20	AC Drive 3ph 690V 5,5kW			
VFX69-010-20	AC Drive 3ph 690V 7,5kW			
VFX69-013-20	AC Drive 3ph 690V 11kW			
VFX69-018-20	AC Drive 3ph 690V 15kW			
VFX69-021-20	AC Drive 3ph 690V 18,5kW			
VFX69-025-20	AC Drive 3ph 690V 22kW			
VFX69-033-20	AC Drive 3ph 690V 30kW	D2(69)	V2.1	
VFX69-042-20	AC Drive 3ph 690V 37kW			
VFX69-050-20	AC Drive 3ph 690V 45kW			
VFX69-058-20	AC Drive 3ph 690V 55kW			
VFX69-002-54	AC Drive 3ph 690V 1,5kW	C69	V2.1	R01
VFX69-003-54	AC Drive 3ph 690V 2,2kW			
VFX69-004-54	AC Drive 3ph 690V 3kW			
VFX69-006-54	AC Drive 3ph 690V 4kW			
VFX69-008-54	AC Drive 3ph 690V 5,5kW			
VFX69-010-54	AC Drive 3ph 690V 7,5kW			
VFX69-013-54	AC Drive 3ph 690V 11kW			
VFX69-018-54	AC Drive 3ph 690V 15kW			
VFX69-021-54	AC Drive 3ph 690V 18,5kW			

Model	Description	Frame size	Contr. board	OSO_100 revision
VFX69-025-54	AC Drive 3ph 690V 22kW	D69	V2.1	
VFX69-033-54	AC Drive 3ph 690V 30kW			
VFX69-042-54	AC Drive 3ph 690V 37kW			
VFX69-050-54	AC Drive 3ph 690V 45kW			
VFX69-058-54	AC Drive 3ph 690V 55kW			
VFX69-082-54	AC Drive 3ph 690V 75kW	F69	V2.1	
VFX69-090-54	AC Drive 3ph 690V 90kW			
VFX69-109-54	AC Drive 3ph 690V 110kW			
VFX69-146-54	AC Drive 3ph 690V 132kW			
VFX69-175-54	AC Drive 3ph 690V 160kW	F69	V2.1	
VFX69-200-54	AC Drive 3ph 690V 200kW			
VFX69-250-20	AC Drive 3ph 690V 250kW			
VFX69-300-20	AC Drive 3ph 690V 315kW	H69	V2.1	
VFX69-375-20	AC Drive 3ph 690V 355kW			
VFX69-400-20	AC Drive 3ph 690V 400kW			
VFX69-430-20	AC Drive 3ph 690V 450kW			
VFX69-500-20	AC Drive 3ph 690V 500kW	I69	V2.1	
VFX69-595-20	AC Drive 3ph 690V 600kW			
VFX69-650-20	AC Drive 3ph 690V 630kW			
VFX69-720-20	AC Drive 3ph 690V 710kW	J69	V2.1	
VFX69-800-20	AC Drive 3ph 690V 800kW			
VFX69-905-20	AC Drive 3ph 690V 900kW			
VFX69-995-20	AC Drive 3ph 690V 1000kW	KA69	V2.1	
VFX69-1K2-20	AC Drive 3ph 690V 1200kW			
VFX69-1K4-20	AC Drive 3ph 690V 1400kW	K69	V2.1	
VFX69-1K6-20	AC Drive 3ph 690V 1600kW	L69	V2.1	
VFX69-1K8-20	AC Drive 3ph 690V 1800kW	M69	V2.1	
VFX69-2K0-20	AC Drive 3ph 690V 2000kW	N69	V2.1	
VFX69-2K2-20	AC Drive 3ph 690V 2200kW	O69	V2.1	
VFX69-2K4-20	AC Drive 3ph 690V 2400kW	P69	V2.1	
VFX69-2K6-20	AC Drive 3ph 690V 2600kW	Q69	V2.1	
VFX69-2K8-20	AC Drive 3ph 690V 2800kW	R69	V2.1	
VFX69-3K0-20	AC Drive 3ph 690V 3000kW	S69	V2.1	
		T69	V2.1	
FDUL46-109-20	LowHarmonic AC Drive 3ph 400V 55kW	G	V2.1	R01

Model	Description	Frame size	Contr. board	OSTO_100 revision
FDUL46-146-20	LowHarmonic AC Drive 3ph 400V 75kW	G	V2.1	
FDUL46-175-20	LowHarmonic AC Drive 3ph 400V 90kW	G	V2.1	
FDUL46-210-20	LowHarmonic AC Drive 3ph 400V 110kW	H	V2.1	
FDUL46-250-20	LowHarmonic AC Drive 3ph 400V 132kW	H	V2.1	
FDUL46-300-20	LowHarmonic AC Drive 3ph 400V 160kW	I	V2.1	
FDUL46-375-20	LowHarmonic AC Drive 3ph 400V 200kW	G46+G	V2.1	
FDUL46-430-20	LowHarmonic AC Drive 3ph 400V 220kW	G46+H	V2.1	
FDUL46-500-20	LowHarmonic AC Drive 3ph 400V 250kW	J	V2.1	
FDUL46-600-20	LowHarmonic AC Drive 3ph 400V 315kW	KA	V2.1	
FDUL46-650-20	LowHarmonic AC Drive 3ph 400V 355kW	K	V2.1	
FDUL46-750-20	LowHarmonic AC Drive 3ph 400V 400kW	K	V2.1	
FDUL46-860-20	LowHarmonic AC Drive 3ph 400V 450kW	L	V2.1	
FDUL46-1K0-20	LowHarmonic AC Drive 3ph 400V 560kW	M	V2.1	
FDUL46-1K2-20	LowHarmonic AC Drive 3ph 400V 630kW	N	V2.1	
FDUL46-1K5-20	LowHarmonic AC Drive 3ph 400V 800kW	Q	V2.1	
FDUL46-1K75-20	LowHarmonic AC Drive 3ph 400V 900kW	R	V2.1	
FDUL69-109-20	LowHarmonic AC Drive 3ph 690V 110kW	H69	V2.1	R01
FDUL69-146-20	LowHarmonic AC Drive 3ph 690V 132kW	H69	V2.1	
FDUL69-185-20	LowHarmonic AC Drive 3ph 690V 160kW	H69	V2.1	
FDUL69-250-20	LowHarmonic AC Drive 3ph 690V 250kW	J69	V2.1	
FDUL69-300-20	LowHarmonic AC Drive 3ph 690V 315kW	J69	V2.1	
FDUL69-375-20	LowHarmonic AC Drive 3ph 690V 355kW	J69	V2.1	
FDUL69-430-20	LowHarmonic AC Drive 3ph 690V 450kW	K69	V2.1	
FDUL69-560-20	LowHarmonic AC Drive 3ph 690V 560kW	K69	V2.1	
FDUL69-749-20	LowHarmonic AC Drive 3ph 690V 710kW	M69	V2.1	
FDUL69-995-20	LowHarmonic AC Drive 3ph 690V 1000kW	P69	V2.1	
FDUL69-1K12-20	LowHarmonic AC Drive 3ph 690V 1100kW	Q69	V2.1	
VFXL46-109-20	LowHarmonic AC Drive 3ph 400V 55kW	G	V2.1	R01
VFXL46-146-20	LowHarmonic AC Drive 3ph 400V 75kW	G	V2.1	
VFXL46-175-20	LowHarmonic AC Drive 3ph 400V 90kW	G	V2.1	
VFXL46-210-20	LowHarmonic AC Drive 3ph 400V 110kW	H	V2.1	
VFXL46-250-20	LowHarmonic AC Drive 3ph 400V 132kW	H	V2.1	
VFXL46-300-20	LowHarmonic AC Drive 3ph 400V 160kW	I	V2.1	

Model	Description	Frame size	Contr. board	OSTO_100 revision
VFXL46-375-20	LowHarmonic AC Drive 3ph 400V 200kW	G46+G	V2.1	
VFXL46-430-20	LowHarmonic AC Drive 3ph 400V 2205kW	G46+H	V2.1	
VFXL46-500-20	LowHarmonic AC Drive 3ph 400V 250kW	J	V2.1	
VFXL46-600-20	LowHarmonic AC Drive 3ph 400V 315kW	KA	V2.1	
VFXL46-650-20	LowHarmonic AC Drive 3ph 400V 355kW	K	V2.1	
VFXL46-750-20	LowHarmonic AC Drive 3ph 400V 400kW	K	V2.1	
VFXL46-860-20	LowHarmonic AC Drive 3ph 400V 450kW	L	V2.1	
VFXL46-1K0-20	LowHarmonic AC Drive 3ph 400V 560kW	M	V2.1	
VFXL46-1K2-20	LowHarmonic AC Drive 3ph 400V 630kW	N	V2.1	
VFXL46-1K5-20	LowHarmonic AC Drive 3ph 400V 800kW	Q	V2.1	
VFXL46-1K75-20	LowHarmonic AC Drive 3ph 400V 900kW	R	V2.1	
VFXL69-109-20	LowHarmonic AC Drive 3ph 690V 110kW	H69	V2.1	R01
VFXL69-146-20	LowHarmonic AC Drive 3ph 690V 132kW	H69	V2.1	
VFXL69-185-20	LowHarmonic AC Drive 3ph 690V 160kW	H69	V2.1	
VFXL69-250-20	LowHarmonic AC Drive 3ph 690V 250kW	J69	V2.1	
VFXL69-300-20	LowHarmonic AC Drive 3ph 690V 315kW	J69	V2.1	
VFXL69-375-20	LowHarmonic AC Drive 3ph 690V 355kW	J69	V2.1	
VFXL69-430-20	LowHarmonic AC Drive 3ph 690V 450kW	K69	V2.1	
VFXL69-560-20	LowHarmonic AC Drive 3ph 690V 560kW	K69	V2.1	
VFXL69-749-20	LowHarmonic AC Drive 3ph 690V 710kW	M69	V2.1	
VFXL69-995-20	LowHarmonic AC Drive 3ph 690V 1000kW	P69	V2.1	
VFXL69-1K12-20	LowHarmonic AC Drive 3ph 690V 1100kW	Q69	V2.1	
FDUR46-109-20	LowHarmonic & Regenerative AC Drive 3ph 400V 55kW	G	V2.1	R01
FDUR46-146-20	LowHarmonic & Regenerative AC Drive 3ph 400V 75kW	G	V2.1	
FDUR46-175-20	LowHarmonic & Regenerative AC Drive 3ph 400V 90kW	G	V2.1	
FDUR46-210-20	LowHarmonic & Regenerative AC Drive 3ph 400V 110kW	H	V2.1	
FDUR46-250-20	LowHarmonic & Regenerative AC Drive 3ph 400V 132kW	H	V2.1	

Model	Description	Frame size	Contr. board	OSTO_100 revision
FDUR46-300-20	LowHarmonic & Regenerative AC Drive 3ph 400V 160kW	I	V2.1	
FDUR46-375-20	LowHarmonic & Regenerative AC Drive 3ph 400V 200kW	G46+G	V2.1	
FDUR46-430-20	LowHarmonic & Regenerative AC Drive 3ph 400V 220kW	G46+H	V2.1	
FDUR46-500-20	LowHarmonic & Regenerative AC Drive 3ph 400V 250kW	J	V2.1	
FDUR46-600-20	LowHarmonic & Regenerative AC Drive 3ph 400V 315kW	KA	V2.1	
FDUR46-650-20	LowHarmonic & Regenerative AC Drive 3ph 400V 355kW	K	V2.1	
FDUR46-750-20	LowHarmonic & Regenerative AC Drive 3ph 400V 400kW	K	V2.1	
FDUR46-860-20	LowHarmonic & Regenerative AC Drive 3ph 400V 450kW	L	V2.1	
FDUR46-1K0-20	LowHarmonic & Regenerative AC Drive 3ph 400V 560kW	M	V2.1	
FDUR46-1K2-20	LowHarmonic & Regenerative AC Drive 3ph 400V 630kW	N	V2.1	
FDUR46-1K5-20	LowHarmonic & Regenerative AC Drive 3ph 400V 800kW	Q	V2.1	
FDUR46-1K75-20	LowHarmonic & Regenerative AC Drive 3ph 400V 900kW	R	V2.1	
FDUR69-109-20	LowHarmonic & Regenerative AC Drive 3ph 690V 110kW	H69	V2.1	R01
FDUR69-146-20	LowHarmonic & Regenerative AC Drive 3ph 690V 132kW	H69	V2.1	
FDUR69-185-20	LowHarmonic & Regenerative AC Drive 3ph 690V 160kW	H69	V2.1	
FDUR69-250-20	LowHarmonic & Regenerative AC Drive 3ph 690V 250kW	J69	V2.1	
FDUR69-300-20	LowHarmonic & Regenerative AC Drive 3ph 690V 315kW	J69	V2.1	

Model	Description	Frame size	Contr. board	OSTO_100 revision
FDUR69-375-20	LowHarmonic & Regenerative AC Drive 3ph 690V 355kW	J69	V2.1	
FDUR69-430-20	LowHarmonic & Regenerative AC Drive 3ph 690V 450kW	K69	V2.1	
FDUR69-560-20	LowHarmonic & Regenerative AC Drive 3ph 690V 560kW	K69	V2.1	
FDUR69-749-20	LowHarmonic & Regenerative AC Drive 3ph 690V 710kW	M69	V2.1	
FDUR69-995-20	LowHarmonic & Regenerative AC Drive 3ph 690V 1000kW	P69	V2.1	
FDUR69-1K12-20	LowHarmonic & Regenerative AC Drive 3ph 690V 1100kW	Q69	V2.1	
VFXR46-109-20	LowHarmonic & Regenerative AC Drive 3ph 400V 55kW	G	V2.1	R01
VFXR46-146-20	LowHarmonic & Regenerative AC Drive 3ph 400V 75kW	G	V2.1	
VFXR46-175-20	LowHarmonic & Regenerative AC Drive 3ph 400V 90kW	G	V2.1	
VFXR46-210-20	LowHarmonic & Regenerative AC Drive 3ph 400V 110kW	H	V2.1	
VFXR46-250-20	LowHarmonic & Regenerative AC Drive 3ph 400V 132kW	H	V2.1	
VFXR46-300-20	LowHarmonic & Regenerative AC Drive 3ph 400V 160kW	I	V2.1	
VFXR46-375-20	LowHarmonic & Regenerative AC Drive 3ph 400V 200kW	G46+G	V2.1	
VFXR46-430-20	LowHarmonic & Regenerative AC Drive 3ph 400V 2205kW	G46+H	V2.1	
VFXR46-500-20	LowHarmonic & Regenerative AC Drive 3ph 400V 250kW	J	V2.1	
VFXR46-600-20	LowHarmonic & Regenerative AC Drive 3ph 400V 315kW	KA	V2.1	
VFXR46-650-20	LowHarmonic & Regenerative AC Drive 3ph 400V 355kW	K	V2.1	

Model	Description	Frame size	Contr. board	OSTO_100 revision
VFXR46-750-20	LowHarmonic & Regenerative AC Drive 3ph 400V 400kW	K	V2.1	
VFXR46-860-20	LowHarmonic & Regenerative AC Drive 3ph 400V 450kW	L	V2.1	
VFXR46-1K0-20	LowHarmonic & Regenerative AC Drive 3ph 400V 560kW	M	V2.1	
VFXR46-1K2-20	LowHarmonic & Regenerative AC Drive 3ph 400V 630kW	N	V2.1	
VFXR46-1K5-20	LowHarmonic & Regenerative AC Drive 3ph 400V 800kW	Q	V2.1	
VFXR46-1K75-20	LowHarmonic & Regenerative AC Drive 3ph 400V 900kW	R	V2.1	
VFXR69-109-20	LowHarmonic & Regenerative AC Drive 3ph 690V 110kW	H69	V2.1	R01
VFXR69-146-20	LowHarmonic & Regenerative AC Drive 3ph 690V 132kW	H69	V2.1	
VFXR69-185-20	LowHarmonic & Regenerative AC Drive 3ph 690V 160kW	H69	V2.1	
VFXR69-250-20	LowHarmonic & Regenerative AC Drive 3ph 690V 250kW	J69	V2.1	
VFXR69-300-20	LowHarmonic & Regenerative AC Drive 3ph 690V 315kW	J69	V2.1	
VFXR69-375-20	LowHarmonic & Regenerative AC Drive 3ph 690V 355kW	J69	V2.1	
VFXR69-430-20	LowHarmonic & Regenerative AC Drive 3ph 690V 450kW	K69	V2.1	
VFXR69-560-20	LowHarmonic & Regenerative AC Drive 3ph 690V 560kW	K69	V2.1	
VFXR69-749-20	LowHarmonic & Regenerative AC Drive 3ph 690V 710kW	M69	V2.1	
VFXR69-995-20	LowHarmonic & Regenerative AC Drive 3ph 690V 1000kW	P69	V2.1	
VFXR69-1K12-20	LowHarmonic & Regenerative AC Drive 3ph 690V 1100kW	Q69	V2.1	



Model	Description	Frame size	Contr. board	OSO_100 revision	
CDU48-008-55	Motor mounted AC Drive 3ph 400V 3kW variant based on FDU-series	B	V2.1	R01	
CDU48-010-55	Motor mounted AC Drive 3ph 400V 4kW variant based on FDU-series				
CDU48-013-55	Motor mounted AC Drive 3ph 400V 5,5kW variant based on FDU-series				
CDU48-018-55	Motor mounted AC Drive 3ph 400V 7,5kW variant based on FDU-series				
CDU48-026-55	Motor mounted AC Drive 3ph 400V 11kW variant based on FDU-series	C	V2.1		
CDU48-031-55	Motor mounted AC Drive 3ph 400V 15kW variant based on FDU-series				
CDU48-037-55	Motor mounted AC Drive 3ph 400V 18,5kW variant based on FDU-series				
CDU48-046-55	Motor mounted AC Drive 3ph 400V 22kW variant based on FDU-series	C	V2.1		
CDX48-008-55	Motor mounted AC Drive 3ph 400V 3kW variant based on VFX-series	B	V2.1		R01
CDX48-010-55	Motor mounted AC Drive 3ph 400V 4kW variant based on VFX-series	B	V2.1		
CDX48-013-55	Motor mounted AC Drive 3ph 400V 5,5kW variant based on VFX-series				
CDX48-018-55	Motor mounted AC Drive 3ph 400V 7,5kW				

Model	Description	Frame size	Contr. board	OSTO_100 revision
	variant based on VFX-series			
CDX48-026-55	Motor mounted AC Drive 3ph 400V 11kW variant based on VFX-series	C	V2.1	
CDX48-031-55	Motor mounted AC Drive 3ph 400V 15kW variant based on VFX-series			
CDX48-037-55	Motor mounted AC Drive 3ph 400V 18,5kW variant based on VFX-series			
CDX48-046-55	Motor mounted AC Drive 3ph 400V 22kW variant based on VFX-series			

\*1) Emotron drives were not part of the functional safety assessment.

The content of this Revision List has been agreed between Manufacturer and Certification Body.

**Revision:**

Date	Rev.	Description / Changes	Author
03.05.2021	1.0	Initial creation, based on Report-No.: 968/FSP 2222.00/21	Pa A-FS