4.5 Ordering

The below explanations refer to the ordering form.

Power sizes (positions 1-6):
0.5–4 hp [0.37–3.3 kW] (See power size selection table)

Application range (position 7):

- P-process

AC line voltage (positions 8-9):

- T4 - 380–480 V three-phase supply voltage

Enclosure (positions 10-12):
The enclosure offers protection against dusty, wet, and aggressive environment

- P66 - Protected IP66 enclosure (exceptions see Installation box T00, T73)

Hardware variant (positions 13-14):

- ST - Standard hardware
- EX - 24 V external supply for backup of control card
- EB - 24 V external supply for backup of control card, control and supply of mechanical brake and an additional brake chopper

RFI filter (positions 15-16):

- R1 - Compliance with class A1 filter

Display unit (LCP) (positions 17-18):
Connection option for display and keypad

- D0 - No pluggable display connector in the unit
- DC - Display connector plug mounted (not available with "only right side" installation box variants)

Serial communication option card (positions 19-21):
A wide selection of high performance serial communication options is available (integrated)

- F00 - No serial communication option built in
- F10 - Profibus DP V0/V1 3 Mbaud
- F12 - Profibus DP V0/V1 12 Mbaud
- F30 - DeviceNet
- F70 - AS-interface

Installation box (positions 22-24):

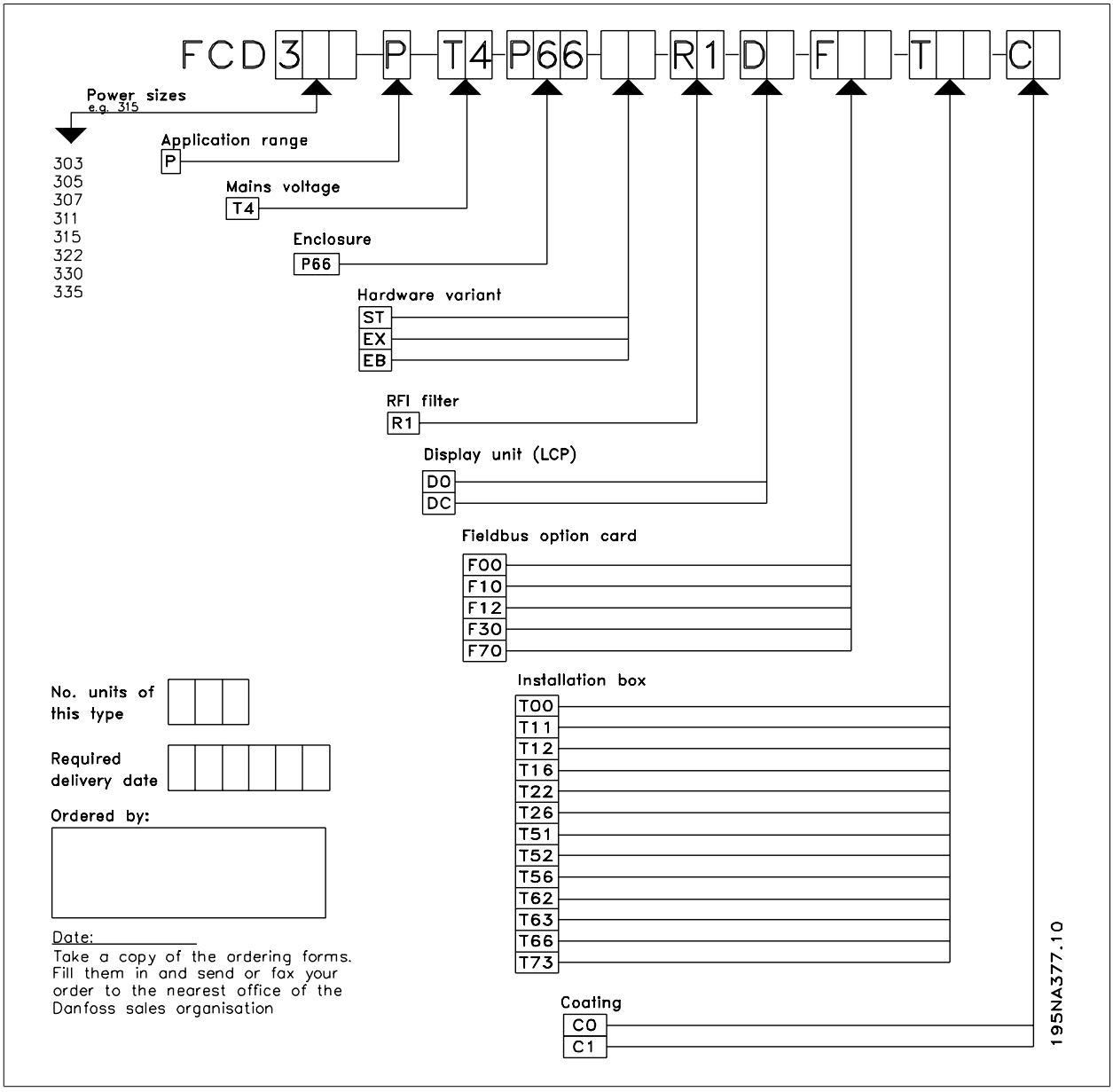
- T00 - No Installation box
- T11 - Installation box, motor mount, metric thread, only right side
- T12 - Installation box, motor mount, metric thread, double side
- T16 - Installation box, motor mount, NPT thread, double side
- T22 - Installation box, motor mount, metric thread, double side, service switch
- T26 - Installation box, motor mount, NPT thread, double side, service switch
- T51 - Installation box, wall mount, metric thread, only right side
- T52 - Installation box, wall mount, metric thread, double side
- T56 - Installation box, wall mount, NPT thread, double side
- T62 - Installation box, wall mount, metric thread, double side, service switch
- T66 - Installation box, wall mount, NPT thread, double side, service switch
- T63 - Installation box, wall mount, metric thread, double side, service switch, sensor plugs
- T73 - Installation box, wall mount, metric thread, double side, motor plug, sensor plugs, Viton gasket

Coating (positions 25-26):

The IP66 enclosure offers protection of the drive against aggressive environments, which practically eliminates the need for coated-printed circuit boards.

- C0 - Non coated boards

4.5.1 Ordering Form



4.6 Technical Data, Line Power Supply 3 x 380–480 V

According to international standards	Type	303	305	307	311	315	322	330	335**
Output current	$I_{INV.}$ [A]	1.4	1.8	2.2	3.0	3.7	5.2	7.0	7.6
(3 x 380–480 V)	I_{MAX} (60s) [A]	2.2	2.9	3.5	4.8	5.9	8.3	11.2	11.4
Output power (400 V)	$S_{INV.}$ [KVA]	1.0	1.2	1.5	2.0	2.6	3.6	4.8	5.3
Typical shaft output	$P_{M,N}$ [kW]	0.37	0.55	0.75	1.1	1.5	2.2	3.0	3.3
Typical shaft output	$P_{M,N}$ [HP]	0.50	0.75	1.0	1.5	2.0	3.0	4.0	5*
Max. cable cross-section, motor	[mm²/AWG] [1)]	4/10	4/10	4/10	4/10	4/10	4/10	4/10	4/10
Input current	$I_{L,N}$ [A]	1.2	1.6	1.9	2.6	3.2	4.7	6.1	6.8
(3 x 380–480 V)	$I_{L,MAX}$(60s) [A]	1.9	2.6	3.0	4.2	5.1	7.5	9.8	10.2
Max. cable cross-section, power	[mm²/AWG] [1)]	4/10	4/10	4/10	4/10	4/10	4/10	4/10	4/10
Max. pre-fuses	[IEC]/UL [2)] [A]	25/25	25/25	25/25	25/25	25/25	25/25	25/25	25/25
Efficiency[3)]	[%]	96							
Power loss at max. load	[W]	22	29	40	59	80	117	160	190
Weight	[kg]	5.8	5.8	5.8	5.8	5.8	9.5	9.5	9.5

* At AC line voltage min 3 x 460–480 V

** t_{amb} max. 95°F [35°C].

1. American Wire Gauge. Max. cable cross-section is the largest cable cross-section that can be attached to the terminals. Always observe national and local regulations.
2. Typr gG / gL pre fuses or corresponding circuit breakers should be used.
   If you want to maintain UL/cUL branch circuit fuses according to NEC should be used. Alternatively a circuit breaker Danfoss type CTI 25 MB or equivalent should be used.
   To be placed for protection in a circuit that is capable of supplying a maximum of 100,000 amps for fuses / 10,000 amps for circuit breakers.
3. Measured using an 33 ft [10 m] shielded/armored motor cable with a rated load and rated frequency.

4.7 Available literature

Below is a list of the literature available for FCD 300. It must be noted that there may be deviations from one country to the next.

Supplied with the unit:	
Instruction Manual	MG.04.BX.YY
Various literature for FCD 300:	
Data sheet	MD.04.AX.YY
Instructions for FCD 300:	
Sensor and servo interface for 6 x M12 plugs	MI.04.DX.YY
Machine Mounting Brackets	MI.04.CX.YY
Data Cable	MI.90.HX.YY
Installation Box	MI.04.BX.YY
Communication with FCD 300:	
Profibus DP V1 Instruction Manual	MG.90.AX.YY
DeviceNet Instruction Manual	MG.90.BX.YY
AS-i Instruction Manual	MG.04.EX.YY
Modbus RTU Instruction Manual	MG.10.SX.YY

X = version number

YY = language version