Drive Controllers without Master Communication (Basic Devices)

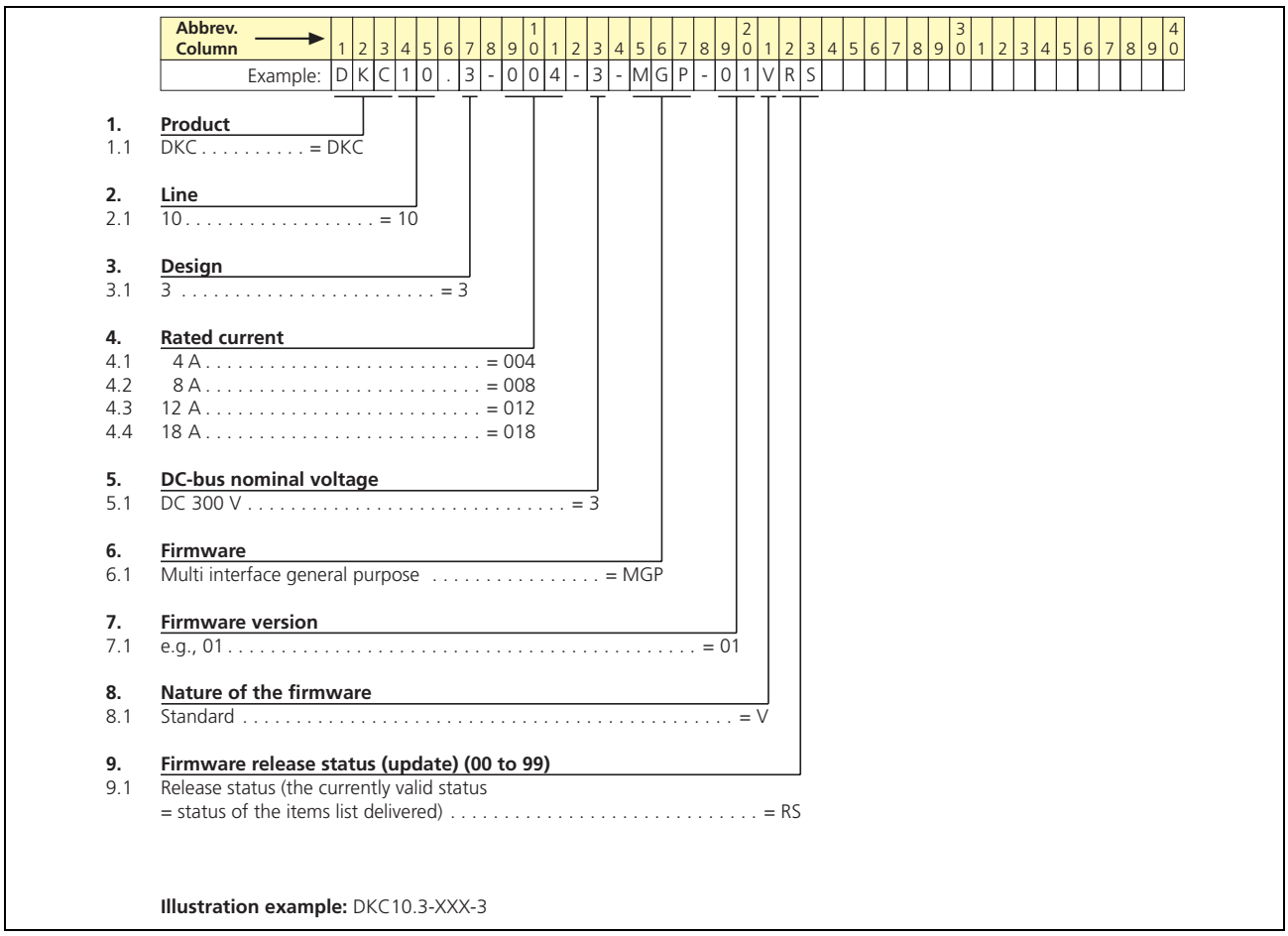


Fig. 2-3: Type code for drive controllers without master communication (basic devices)

Master Communication

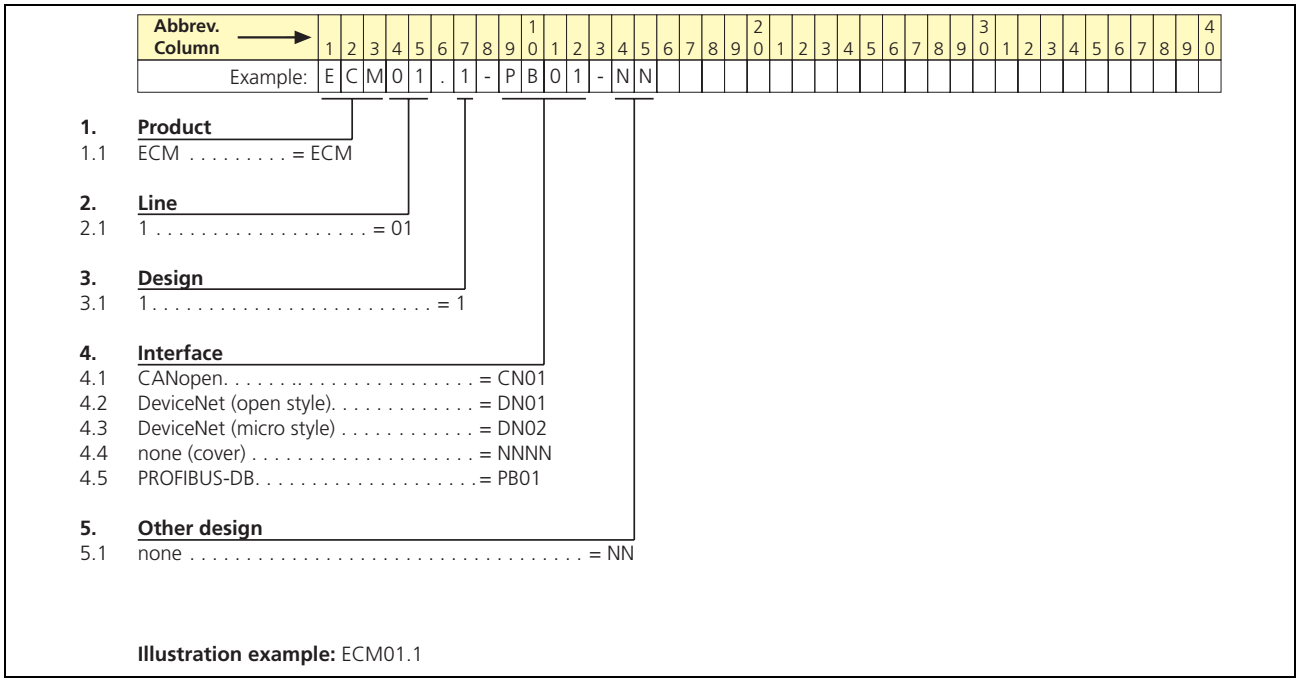


Fig. 2-4: Type code for master communication

3 Ratings and Dimensions

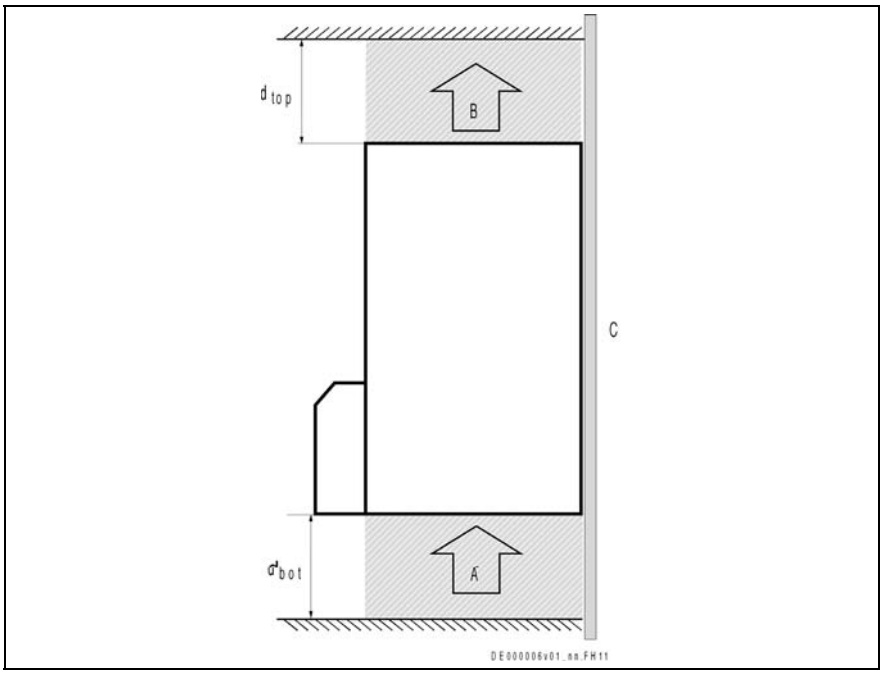
Description	Symbol	Unit	DKC**.3-004	DKC**.3-008	DKC**.3-012	DKC**.3-018
listing according UL-standard (UL)			UL 508 C			
listing according CSA-standard (UL)			Canadian National Standard(s) C22.2 No. 14-05			
UL files (UL)			E 227957			
pollution degree (UL)			Use in a pollution degree 2 environment. The device is to be installed in an enclosure that provides pollution degree 2.			
maximum ambient temperature with nominal data (UL)	T_{amax}	°C	40 °C			
maximum ambient temperature with reduced nominal data (UL)	T_{amax_red}	°C	55 °C			
Weight	m	kg	1,8			2,1
Device height (UL) [1]	H	mm	182			
Device depth (UL) [2]	T	mm	170			
Device width (UL) [3]	B	mm	55			70
minimum distance on the top of the device [4]	d_{top}	mm	50			
minimum distance on the bottom of the device [5]	d_{bot}	mm	50			
rated control voltage input (UL) [6]	U_{N3}	V	24 ac			
rated power consumption control voltage input without holding brake, without control section at U_{N3} = DC 24 V (UL) [7]	P_{N3}	W	n / a	n / a	n / a	n / a
short circuit current rating, SCCR, symmetrical amperes (UL) [8]	I_{SCCR}	A rms	5000			
rated input voltage, power (UL) [9]		V	200 – 230 ac			200 – 240 ac
tolerance rated input voltage (UL)		%	n / a	n / a	n / a	n / a
input number of phases (UL)			3 (1)	3 (1)	3(1)	3
input frequency (UL)	f_{LN}	Hz	50 / 60 Hz			
tolerance input frequency (UL)		Hz	n / a	n / a	n / a	n / a
maximum input current (UL) [10]	I_{L_cont}	A	1,1	1,3	2,2	3,1
branch circuit protection fuse (UL) [11]			2	2	3	4
field wiring material (UL) [12]			Use 60/75 °C copper wire only, use class 1 wire only or equivalent			
required wire size according UL 508 A (internal wiring); at I_{L_cont} (UL) [13]	A_{LN}		AWG 14			
maximum output voltage (UL)	U_{out}	V	84	92	106	116
output number of phases (UL)			3			
maximum output current (UL)	I_{out_max}	A	1	1,6	2,5	4,3
maximum output frequency (UL) [14]	f_{out}	Hz	333,3			300

Description	Symbol	Unit	DKC**.3-004	DKC**.3-008	DKC**.3-012	DKC**.3-018
power dissipation at continuous current I_{out_cont} and continuous DC bus power P_{DC_cont} respectively (UL) [15]	P_{Diss_cont}	W	100	200	400	750
Overspeed protection [16]			n / a			

1) 2) 3) housing dimension; see related dimension sheet also
4) 5) see fig. "Air inlet and outlet of drive controller"
6) observe supply voltage for motor holding brakes
7) find value for control section in project planning manual
8) Suitable for use on a circuit capable of delivering not more than this SCCR value, 230 V AC or less. The drive series shall be used with listed AC input line fuses or listed circuit breakers specified in this documentation.
9) Mains input L1, L2, L3
10) at P_{DC_cont}
11) class J branch circuit fuse
12) find value for tightening torque in project planning manual, electrical terminals
13) copper wire; PVC-insulation (conductor temperature 90 °C); Table 13.5.1; Ta ≤ 40 °C
14) depending on switching frequency which was set in parameter P-0-0001
15) plus dissipation of braking resistor
16) These devices do not provide overspreed protection or equivalent

Abb. 3-1: UL ratings and dimensions

Distances



A: air intake
B: air outlet
C: mounting surface in control cabinet
d_{top}: distance top
d_{bot}: distance bottom

Fig. 3-2: Air intake and air outlet at drive controller