

Introduction

Article number code

1

Overview

Structure of the article numbers for SIMOTICS FD motors

The article number consists of a combination of digits and letters and is divided into three hyphenated blocks to provide a better overview, e.g.: **1LM1212-3AB31-1AA0**

The first block (positions 1 to 7) identifies the motor series, system description and the efficiency; the second block (positions 8 to 12) defines the motor frame size, the number of poles as well as the line voltage and frequency; and the third block (positions 13 to 16) encodes the speed, type of construction, terminal box, separately driven fan and heat exchanger position.

Ordering data:

- Complete Article No. and order code(s) or plain text

- If a quotation has been requested, please specify the quotation number in addition to the Article No.
- When ordering a complete motor as a spare part, please specify the works serial No. for the previously supplied motor as well as the Article No.

Note:

The structure of the Article No. of SIMOTICS FD motors supports the widest possible range of combinations. To check a configured Article No., the **Drive Technology Configurator** (DT Configurator) must be used.

The DT Configurator only permits technically feasible article numbers to be configured.

Structure of the Article No.:

Position: 1 2 3 4 5 6 7 - 8 9 10 11 12 - 13 14 15 16

SIMOTICS FD low-voltage motors															
1st to 4th position: Digit, letter, letter, digit	Motors without explosion protection					1	L								
	Motors with explosion protection					1	M								
	Air-cooled, enclosed version with self-ventilation, IC411							M	1						
	Air-cooled, enclosed version with forced ventilation, IC416							Q	1						
	Water-cooled with water-jacket cooling, IC71W							H	1						
	Water-cooled with heat exchanger, IC86W							N	1						
5th to 7th position: 3 digits	Motors exclusively without explosion protection					1	L								
	Air-cooled, open version with self-ventilation, IC01							L	1						
	Air-cooled, open version with forced ventilation, IC06							P	1						
	Motor series														
	Low-noise standard version									2					
	Increased power version									3					
	Non-Siemens converter (standard)									4					
	Non-Siemens converter (increased power)									5					
	Crane motors for hoisting gear									6					
	Energy storage devices									7					
	System description														
	Line operation (DOL)									0					
	Operation on SINAMICS converter with controlled infeed									1					
	Operation on SINAMICS converter with uncontrolled infeed									2					
	Operation on non-Siemens converter with controlled infeed									3					
	Operation on non-Siemens converter with uncontrolled infeed									4					
	Efficiency														
	High Efficiency											2			
	Premium Efficiency											3			
	8th and 9th position: Digit, letter	Frame size											3	A	
315											3	B			
355											4	A			
400											4	B			
	450														
10th position: Letter	No. of poles													B	
	4-polig													C	
	6-polig													D	
	8-polig														
11th position: Digit	Laminated core length													1	
														...	
														7	
12th position: Digit	Line voltage													1	
	400 V, 50 Hz													2	
	500 V, 50 Hz													3	
	690 V, 50 Hz – VSD													4	
	690 V, 50 Hz – DOL													5	
	460 V, 60 Hz													6	
	575 V, 60 Hz													8	
	480 V													9	
	Deviating data requires order code M.. (e. g. M1Y)														
13th position: Digit	Rated speed													1	
	Coded with 1 ... 9; 9 requires order code N.. (e.g. N1Y)													...	
														9	
14th position: Letter	Type of construction														A
	Coded with A ... G, J ... K														...
														K	
15th position: Letter	Terminal box position														A
	Coded with A ... F one terminal box, K ...P two terminal boxes														...
														P	
16th position: Digit	Separately driven fan – heat exchanger position														0
	0: No separately driven fan/heat exchanger														...
	1 ... 4: Separately driven fan position for air-cooled motors														5
	5: Heat exchanger, top														
	Special order versions:														-
	Coded – additional order code required														Z
	Not coded – additional plain text required														