

Overview

The following overview explains the meaning of the individual positions of the Article No. The selection tables in Chapters 2 to 4 include the motors available as standard from this range.

Structure of the Article No.:	Position:	1	2	3	4	5	6	7	-	8	9	10	11	12	-	Z
<u>1st to 4th positions:</u> Motor design	• Standard version	1	L	A	4											
	- Self-ventilated	1	P	Q	4											
	- Force ventilated	1	L	H	4											
	• Explosion-protected version	1	M	A	4											
	- Ex eb	1	M	G	4											
	- Ex pxb	1	M	S	4											
<u>5th to 6th positions:</u> Shaft height	• 315 mm					3	1									
	• 355 mm					3	5									
	• 400 mm					4	0									
	• 450 mm					4	5									
	• 500 mm					5	0									
	• 560 mm					5	6									
	• 630 mm					6	3									
<u>7th position:</u> Laminated core length	• Short							0								
	• Medium							2								
	• Long							4								
	• Extra long							6								
<u>8th position:</u> Pole number	• 2-pole									2						
	• 4-pole									4						
	• 6-pole									6						
	• 8-pole									8						
	• 10-pole									3						
	• 12-pole									5						
<u>9th position:</u> Rotor version	• Standard aluminum rotor										A					
	• Special aluminum rotor										B					
	• Standard copper rotor										C					
	• Special copper rotor										D					
	• Special version (CuSi,...)										E					
<u>10th position:</u> Character for operation with:	• Line supply, low voltage											A				
	• Line supply, high voltage											N				
	• LV drive converter											M				
	• MV drive converter											V				
	• Converters, others (e.g. SINAMICS PERFECT HARMONY)											W				
<u>11th position:</u> voltage code	Line supply, high voltage:															
	3.3 kV, 50 Hz													0		
	6.6 kV, 60 Hz													1		
	–													2		
	3.0 kV, 50 Hz													3		
	4.0 kV, 60 Hz													4		
	5.0 kV, 50 Hz													5		
	6.0 kV, 50 Hz													6		
	6.6 kV, 50 Hz													7		
	10 kV, 50 Hz													8		
Other voltage/frequency (additional text data)													9			
<u>12th position:</u> Type of construction	• IM B3													0		
	• IM V1 with canopy													4		
	• IM V1 without canopy													8		
	• IM B35													6		
Options: Additional order codes required.																

Introduction

SIMOTICS HV/TN Series H-compact PLUS, SIMOTICS HV M (Modular)

Article number code · SIMOTICS HV/TN Series H-compact PLUS

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Overview

The following overview explains the meaning of the individual positions of the Article No. The selection tables in Parts 2 to 4 include the motors available as standard from this range.

Structure of the Article No., shaft heights 450 mm to 630 mm		Position:	1	2	3	4	5	6	7	-	8	9	10	11	12	-	Z	
1st to 4th position: Motor version	Standard version																	
		Degree of protection/cooling																
		IEC																
		NEMA																
	Open-circuit ventilated	IP23/IC01	-	1	R	A	4											
	Air/air cooling	IP55/IC611 or IC616	-	1	R	Q	4											
	Air/water cooling	IP55/IC81W or IC86W	-	1	R	N	4											
	Open-circuit ventilated	IP23/IC01	-	1	R	A	6											
	Open-circuit ventilated	IP24W/IC01	WP11	1	R	P	6											
	Air/air cooling	IP55/IC611 or IC616	TEAAC	1	R	Q	6											
	Air/water cooling	IP55/IC81W or IC86W	TEWAC	1	R	N	6											
	Ex eb version																	
	Air/air cooling	IP55/IC611 or IC616	-	1	S	J	4											
	Air/water cooling	IP55/IC81W or IC86W	-	1	S	N	4											
	Air/air cooling	IP55/IC611 or IC616	-	1	S	J	6											
	Air/water cooling	IP55/IC81W or IC86W	-	1	S	N	6											
	Ex ec version																	
	Air/air cooling	IP55/IC611 or IC616	-	1	S	G	4											
	Air/water cooling	IP55/IC81W or IC86W	-	1	S	L	4											
	Air/air cooling	IP55/IC611 or IC616	-	1	S	G	6											
	Air/water cooling	IP55/IC81W or IC86W	-	1	S	L	6											
	Ex pxb version																	
	Air/air cooling	IP55/IC611 or IC616	-	1	S	B	4											
	Air/water cooling	IP55/IC81W or IC86W	-	1	S	Q	4											
	Air/air cooling	IP55/IC611 or IC616	-	1	S	B	6											
	Air/water cooling	IP55/IC81W or IC86W	-	1	S	Q	6											
5th to 6th position: Shaft height	• 450 mm						4	5										
	• 500 mm						5	0										
	• 560 mm						5	6										
	• 630 mm						6	3										
7th position: Laminated core length	The laminated core length is coded in digits 0 to 9 (without fixed assignment)																	
8th position: Pole number	• 2-pole																	2
	• 4-pole																	4
	• 6-pole																	6
	• 8-pole																	8
	• 10-pole																	3
	• 12-pole																	5
	• 14-pole																	7
	• 16-pole																	9
																		Additional order code H1A

Overview (continued)

Structure of the Article No.:	Position:	1	2	3	4	5	6	7	-	8	9	10	11	12	-	Z	
9th position: Cooling method for:	IEC version:	Cooling method:															
	<ul style="list-style-type: none"> With shaft-mounted fan (basic version) or shaft-mounted fan for the inner and separately-driven fan for the outer cooling circuit With shaft-mounted fan for the inner and outer cooling circuits With separately-driven fan for the inner or for the inner and outer cooling circuits 	IC01/IC81W										H					
		IC616									H						
		IC611									J						
		IC86W/IC666									F						
	NEMA version (only available for 1R.6 motors with shaft height 710; other shaft heights on request)	Cooling method:															
	<ul style="list-style-type: none"> With separately-driven fan for the inner and outer cooling circuits With shaft-mounted fan With shaft-mounted fan for the inner and separately-drive fan for the outer cooling circuit With shaft-mounted fan for the inner and outer cooling circuits 	TEAAC										A					
		WP11 or TEWAC										B					
		TEAAC										B					
		TEAAC										C					
10th position: Rotor version or drive converter type	Line operation	Letter	Converter operation	Letter													
	1R.4: Standard rotor with E-Cu	E	1R.4: MV drive converter	V													
	1R.4: Standard rotor with CuSi	S	1R.4: LV drive converter	M													
	1R.6: Standard rotor with E-Cu	JKL (power-dependent)	1R.6: LV drive converter; copper rotor	P (SINAMICS G/ SINAMCIS S) Q (other converters)													
	1R.6: Standard rotor with CuSi	MN (power-dependent)	1R.6: MV drive converter; copper rotor	S (SINAMICS GM/ SINAMICS SM) T (SINAMICS PERFECT HARMONY) U (other converters)													
	1R.4 and 1R.6: Special rotor with E-Cu	X															
1R.4 and 1R.6: Special rotor with CuSi	Y																
11th position: Voltage code	1R.4: Line operation:	1R.4: Operation with MV drive converter:	1R.4: Operation with LV drive converter	1R.6: Line operation	1R.6: Converter operation												
	3.3 kV, 50 Hz	2.3 kV, 50 Hz	690 V, 50 Hz, on request	3.3 kV, 50 Hz	690 V, 50 Hz											0	
	6.6 kV, 60 Hz	2.3 kV, 60 Hz	–	6.6 kV, 60 Hz	690 V, 60 Hz											1	
	–	3.3 kV, 50 Hz	–	13.2 kV, 60 Hz	2,3 kV, 50 Hz											2	
	3.0 kV, 50 Hz	3.3 kV, 60 Hz	–	4.16 kV, 60 Hz	4,16 kV, 60 Hz											3	
	4.0 kV, 60 Hz	4.16 kV, 50 Hz	–	4.0 kV, 60 Hz	4,16 kV, 50 Hz											4	
	5.0 kV, 50 Hz	4.16 kV, 60 Hz	–	2.3 kV, 60 Hz	3,3 kV, 50 Hz											5	
	6.0 kV, 50 Hz	6.0 kV, 50 Hz	–	6.0 kV, 50 Hz	6,0 kV, 50 Hz											6	
	6.6 kV, 50 Hz	6.6 kV, 50 Hz	–	6.6 kV, 50 Hz	6,6 k V, 50 Hz											7	
	10 kV, 50 Hz	–	–	10 kV, 50 Hz	6,6 kV, 60 Hz											8	
Other voltage/frequency (additional text data)																9	
12th position: Type of construction	<ul style="list-style-type: none"> IM B3 IM V1 with canopy (for shaft height 630 mm, only in type of construction IM V10) IM V1 without canopy (for shaft height 630 mm, only in type of construction IM V10) 															0	
	Options: Additional order code required. Refer to section Options and tests in Chapter 2, Chapter 3 and Chapter 4.															4	
																8	

Introduction

SIMOTICS HV/TN Series H-compact PLUS, SIMOTICS HV M (Modular)

Article number code · SIMOTICS HV M (Modular)

Overview

The following overview explains the meaning of the individual positions of the Article No. The selection tables in Parts 2 to 4 include the motors available as standard from this range.

Structure of the Article No., shaft heights 710 mm to 800 mm	Position:	1	2	3	4	5	6	7	-	8	9	10	11	12	-	13	14	15	16	Z	
1st to 3th position: Motor version, Ex- protection	Ex-protection																				
	Air/air cooling	1	R	Q																	
	Air/air cooling	1	S	G																	
	Air/air cooling	1	S	B																	
	Air/air cooling	1	S	J																	
	Basic design, open-circuit ventilated	1	R	A																	
	Weather protected design, open-circuit ventilated	1	R	P																	
	Air/water cooling	1	R	N																	
	Air/water cooling	1	S	L																	
	Air/water cooling	1	S	Q																	
	Air/water cooling	1	S	N																	
4th position: Motor series	SIMOTIC HV M (modular)				7																
5th to 6th position: Shaft height	• 710 mm					7	1														
	• 800 mm					8	0														
7th position: Laminated core length	The laminated core length is coded in digits 0 to 9 (without fixed assignment)																				
8th position: Pole number	• 2-pole																				2
	• 4-pole																				4
	• 6-pole																				6
	• 8-pole																				8
	• 10-pole																				3
	• 12-pole																				5
	• 14-pole																				7
	• 16-pole																				0
	• 18-pole																				1
	• Other pole numbers																				9
9th position: Cooling method for:	Cooling method:																				
	• Open inner cooling air circuit																				F
	• Weather-protected design, open circuit																				H
	• Air/air cooling																				J
	• Air/air cooling with forced ventilation for outer air circuit																				K
	• Air/air cooling with forced ventilation for inner air circuit																				L
	• Air/air cooling with forced ventilation for inner and outer air circuit																				M
	• Air/water cooling																				N
	• Air/water cooling with forced ventilation																				P

Overview (continued)

Structure of the Article No.:	Position:	1	2	3	4	5	6	7	-	8	9	10	11	12	-	13	14	15	16	Z		
<u>10th position:</u> Motor for line operation or for converter operation	For line operation with												A									
	• High voltage motor												B									
	• Low voltage motor																					
	For converter operation with												C									
	• SINAMICS G150												D									
	• SINAMICS S120												E									
	• SINAMICS S150												F									
	• SINAMICS G180												R									
	• SINAMICS GM150												S									
	• SINAMICS SM150												T									
	• SINAMICS GH180												U									
	• SINAMICS GH150												Z									
	• Other converters (additional text data)																					
<u>11th position:</u> Voltage code	Line operation	Operation with MV drive converter		Line/converter operation																		
	3.3 kV, 50 Hz	7.2 kV, 50 Hz		690 V, 60 Hz								0										
	6.6 kV, 60 Hz	11 kV, 50 Hz		690 V, 50 Hz								1										
	13.2 kV, 60 Hz	2.3 kV, 50 Hz		–								2										
	4.16 kV, 60 Hz	4.16 kV, 60 Hz		–								3										
	4 kV, 60 Hz	4.16 kV, 50 Hz		400 V								4										
	2.3 kV, 60 Hz	3.3 kV, 50 Hz		500V								5										
	6.0 kV, 50 Hz	6 kV, 50 Hz		–								6										
	6.6 kV, 50 Hz	6.6 kV, 50 Hz		660 V								7										
	10 kV, 50 Hz	6.6 kV, 60 Hz		–								8										
	Other voltages/frequency (additional text data)										9											
<u>12th position:</u> Type of construction	• IM B3 (IM 1001)											0										
	• IM V1, without protective hood (IM 3011)											8										
	• Other mounting types (additional text data)											9										
<u>13th position:</u> Temperature class (for explosion protection)	• Without temperature class											0										
	• Temperature class T2											2										
	• Temperature class T3											3										
	• Temperature class T4											4										
<u>14th position:</u> Rotor version	• Standard rotor – E-Cu																	C				
	• Special rotor – E-Cu																	D				
	• Standard rotor – CuSi																	E				
	• Special rotor – CuSi																	F				
	• Special rotor – with other material type																	G				
<u>15th position:</u> Housing and bearing version	• Steel fabricated housing / anti-friction bearings																			G		
	• Steel fabricated housing / sleeve bearing																			J		
<u>16th position:</u> Category	• Standard series																				0	
<u>Z position:</u>	Options: Additional order code required. Refer to section Options and tests in Chapter 2, Chapter 3 and Chapter 4.																					Z