Technical details

Mains Connection	
Voltage and power range	3-phase, U _N
	from 0.75 up to 160 kW
	380 to 480 V, +10%/-15%
Frequency	50/60 HZ ±5%
Power factory	cosφ = 0.98
Efficiency (at nominal power)	98%
Motor Connection	
Voltage	0 to U _N , 3-phase
Frequency	0 to 500 Hz
Motor control	Scalar and vector control
Speed control	Static accuracy:
	20% of motor nominal slip
	Dynamic accuracy:
	1% seconds with 100% torque step
Product compliance	
CE	
Low Voltage Directive 2006/95/EC, EN 61800-5-1: 2007	
Machinery Directive 2006/42/EC, EN 61800-5-2: 2007	
EMC Directive 2004/108/EC, EN 61800-3: 2004 + A1: 2012	
Quality assurance system	
ISO 9001 and Environmental system ISO 14001	
Waste electrical and eletronic	
equipment directive (WEEE) 2	002/96/EC
RoHS directive 2011/65/EU	
EAC	
EMC according to EN 61800-3: 2004 + A1: 2012	
ACS560 with built-in C3 categ	ory filter as standard

Environmental limits			
Ambient temperatu			
Transport	-40 to +70 °C		
Storage	-40 to +70 °C		
Operation area	-15 to +40 °C no frost		
	allowed. R0 to R2 frames -		
	No deration needed up to		
	50 °C, deration needed		
	above +50 °C to +55 °C		
	R3 to R8 frames: No deration		
	needed up to +40 °C,		
	deration needed above		
	+40 °C to +55 °C.		
	Refer HW manual for more		
	information.		
Coating	Coated circuit boards		
Cooling method			
Air-cooled	Dry clean air		
Altitude			
0 to 1,000 m	Without deration		
1,000 to 4,000 m	With deration of 1%/100 m		
Relative humidity	5 to 95%, no conden-		
•	sation allowed		
Degree of	IP20		
protection			
Functional safety	Safe torque off,		
	(STO according EN		
	61800-5-2),		
	IEC 61508 e d2: SIL 3,		
	IEC 61511: SIL 3,		
	IEC 62061: SIL CL 3,		
	EN ISO 1 3849-1: PL E		
Contamination	No conductive dust allowed		
levels			
Storage	IEC 60721-3-1, Class 1C2		
	(chemical gases),		
	Class 1S2 (solid particles)*		
Operation	IEC 60721-3-3, Class 3C2		
	(chemical gases),		
	Class 3S2 (solid particles)*		
Transportation	IEC 60721-3-2, Class 2C2		
	(chemical gases),		
	Class 2S2 (solid particles)*		
* C = chemically active substances			
S = mechanically ac	S = mechanically active substances		