[Himel]

Product data sheet

HAVXS4T0185G0220P

Characteristics

Variable speed drive, EXPERT-Standard, 18.5 kW, 380 V, 3 phase, standard

Main



Range of product	EXPERT-Standard
Product or component type	Variable speed drive
Product specific application	Advance general purpose
Format of the drive	Standard
Product destination	Asynchronous motors
IP degree of protection	IP20
Type of cooling	Fan
Network number of phases	3 phases
[Us] rated supply voltage	380440 V - 1510 %
Motor power kW	18.5 kW for heavy duty 22 kW for light duty
Motor power hp	24.81 hp for heavy duty 29.5 hp for light duty
Maximum transient current	55.5 A during 1 min (heavy duty) 66.6 A during 3 s (heavy duty) 74 A during 0 s (heavy duty) 54 A during 1 min (light duty) 67.5 A during 3 s (light duty) 81 A during 0 s (light duty)
Asynchronous motor control profile	SVC and V/f energy saving ratio
Speed drive output frequency	0550 Hz
Communication port protocol	Modbus PROFINET

Complementary

Device application	Speed control
Function available	Automatic voltage regulation (AVR) Energy saving mode Fixed and variable swing frequency Length control Sagging (multiple inverters drive one load) Multi-speed operation Jogging Adjustable wobble frequency
Supply frequency	5060 Hz
Maximum voltage unbalance factor	3 %
Continuous output current	37 A heavy duty 45 A light duty
Control type	Manual using keypad Using control terminal Using serial port Three way control using output collector terminals
Efficiency	93 %
Communication service	Read motor parameters automatically
Electrical connection	DC bus sharing

Speed range	1100 in open-loop mode	
Speed accuracy	+/- 0.1 % of nominal speed	
Regulation loop	Adjustable PID regulator	
Acceleration and deceleration ramps	Linear adjustable separately from 0.1 s60 h S-curve adjustable separately from 0.1 s60 h	
Braking to standstill	By DC injection,	
Protection type	Overcurrent Overvoltage Undervoltage Overheating Overload	
Protection technology	Current limiter	
Frequency resolution	Digital input: 0.01 Hz Analog input: 0.55 Hz	
Display type	2 x 7-segment LED for 27 parameters	
Device mounting	Wall mounted Enclosure Flange	
Product compatibility	External braking unit Communication module I/O extension module	
Width	235 mm	
Height	370 mm	
Depth	237 mm	
Analogue input number	3	
Analogue input type	AI1 voltage: 010 V, impedance: 100000 Ohm, resolution 12 bits AI2 voltage: 010 V, impedance: 165 Ohm, resolution 12 bits AI2 current: 020 mA, impedance: 165 Ohm, resolution 12 bits AI3 voltage: differential +/- 10 V, resolution 12 bits	
Discrete input number	6	
Discrete input type	Programmable (DI1DI5) Programmable as pulse input (DI6)	
Analogue output number	1	
Analogue output type	AO1 voltage/current: 020 mA or 010 V AO1 voltage/current: 420 mA or 210 V	
Discrete output number	4	
Discrete output type	configurable relay logic 250 V (5 A) for NO relay output circuit configurable relay logic 250 V (3 A) for NC relay output circuit open collector 930 V (50 mA)	
Device composition	Built-in breaking unit	
Type of installation	Indoor/outdoor	
Application	Material handling machine Textile machine Material working machine Industrial washing machine Air compressor Construction elevator Metal and mining process Petrochemical	
Environment		
Vibration resistance	5.9 m/s ²	
Relative humidity	090 % without condensation	
Ambient air temperature for operation	-1040 °C	

-20...60 °C

Ambient air temperature for storage

Operating altitude		
Environmental characteristic	Dust resistant Corrosive gas free Oil and vapour resistant	
Marking	СЕ	