

INOVANCE



**Dedicated
Application
Solution
CP700**



YOUR PARTNER FOR INDUSTRIAL AUTOMATION SOLUTIONS

About INOVANCE

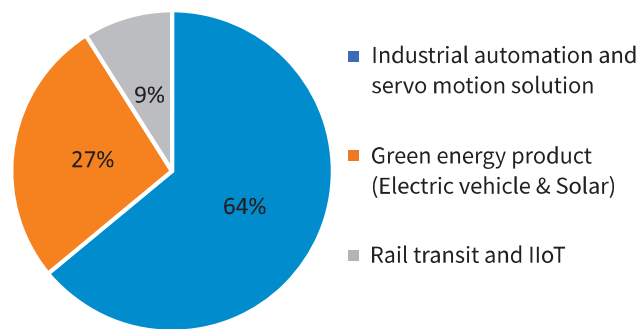
The Inovance Group was founded in 2003 in Shenzhen, a city in one of China's most successful Special Economic Zones. It made its initial public offering on the Shenzhen Stock Exchange in 2010* and has since been tracked by Forbes as an SME with most potential. Rapid growth in sales revenues and staff numbers led to the Group's selection for the Forbes 2016 Best under a Billion list, which highlights Asia-Pacific companies with less than \$1bn in sales but consistently high top and bottom-line gains.

As a young and dynamic organization, the Group has established an effective structure on which to realize its promising future. Its aim is to become one of the leading providers of industrial automation products and solutions, something that it believes can best be achieved by helping more and more customers to succeed in their own objectives through close co-operation as partners.

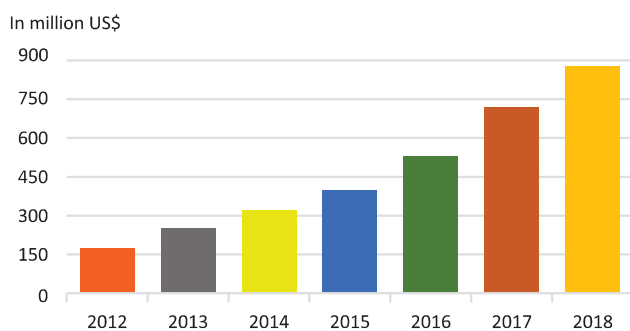
Customers find more than just products when they work with the Inovance Group. They gain access to world-class manufacturing facilities and highly skilled sector-specialists. It is this combination of flexible production techniques and in-depth understanding of the requirements of a given sector that enables business units within the Group to deliver comprehensive solutions

Exceptional R&D Facilities

The Group's R&D teams utilize best in class design software (Pro Engineer, Mentor Flotherm, AnSoft, Windchill PLM) for new product design and development. Significant integrity testing of assemblies and beta products are carried out inhouse to validate the design targets in environmental, mechanical, thermal and motor drive performances. Inovance R&D expenditure is 12% of sales revenue for 2018



Sales from 2012 to 2018



Forward, Always Progressing

The Inovance Group continues to move forward and in 2018 achieved sales revenues of USD 880M, a 24% growth from 2017. Through sustained innovation, the Group delivers new technology products for the industrial automation market and pursues new opportunities in the New Energy sectors of Electric Vehicle and Light Rail Transit inverters. Since its foundation in 2003, Inovance has delivered several millions of power inverters to a wide spectrum of industries and has made significant progress in delivering cost-competitive control solutions

Certification

With markets ever more strongly regulated, certifications are vital to an international future. All of the Group's latest products are designed to comply with CE standards and UL when specified. The R&D compliance department works with internationally recognized testing bodies such as the German TÜV companies, UL listed test labs, TÜV Rheinland for Functional Safety and Liftinstituut for Elevator Safety



EN 61800-3

OHSAS 18001:2007

ISO 9001:2008

ISO 14001:2015



“We Pioneered in providing the Dedicated Application Solution Products for Elevators, Plastic Injection, Compressors, Textiles (Loom, Roving and TFO) HVAC, Cranes, Winders - Unwinders (Textiles/Metal/Paper/Plastic) & High Precision Servo Motion”

Integrated Elevator Drive Solutions Worldwide successful installation >1,700,000 sets

Inova Automation was founded in 2012, 100% subsidiary of INOVANCE. With an international export office established in Hong Kong, other offices followed in the important markets of India, Turkey, Iran, France, Germany and Italy through which European technology is now feeding into the Group's engineering design processes for next gen global products. (*Stock name INOVANCE) stock code 300124

Driven by Application Technology



MD810 - Multi-rack Drive System Solution



Servo Hydraulic Solution



CP700 - Screw Air Compressor Solution



CS710 - Industrial Crane Solution



MD330H - Winder / Unwinder Solution

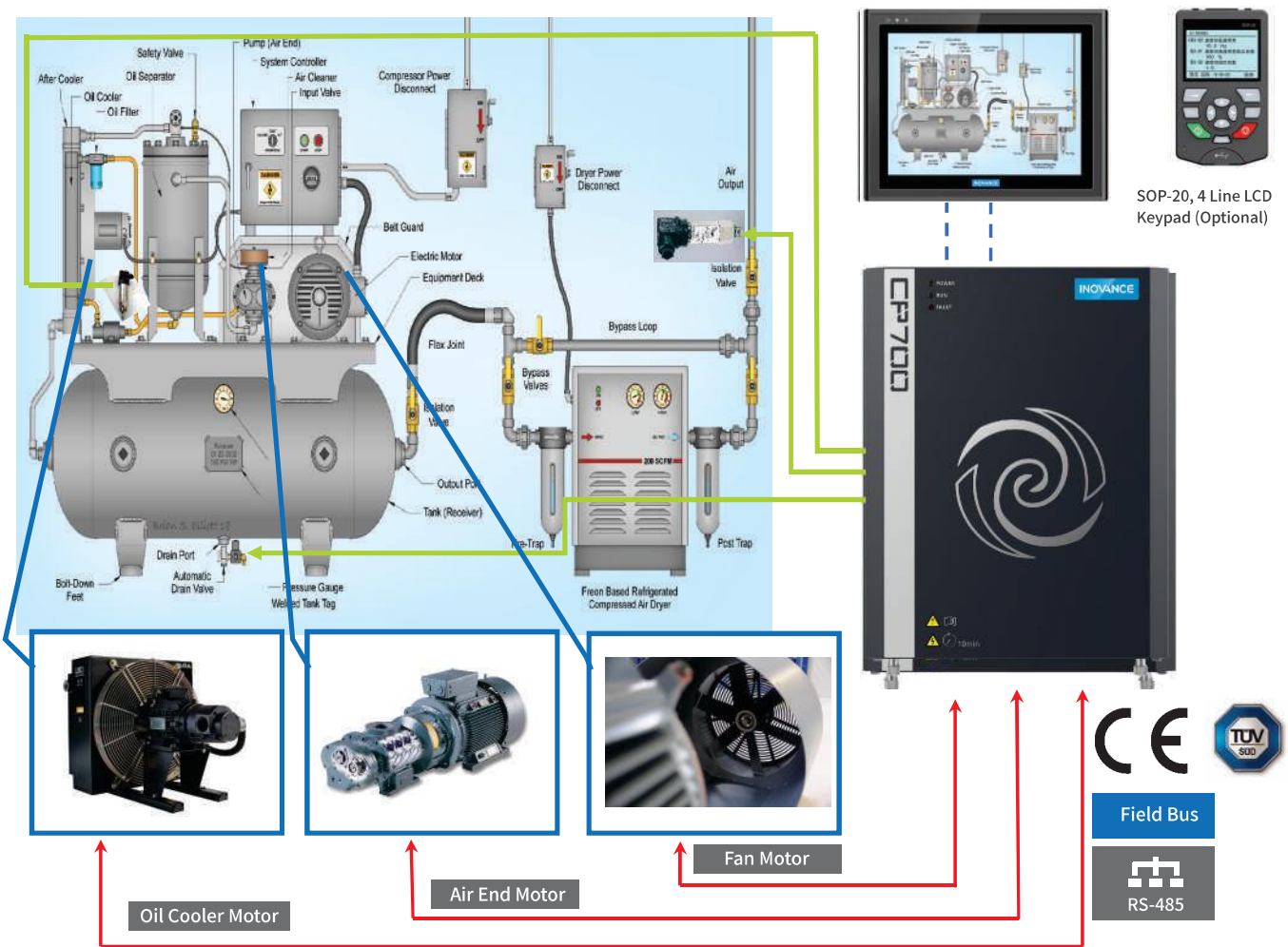


Textile Solution



Electric Vehicle Solution

CP700 - Integrated drive solution for Screw Air Compressor

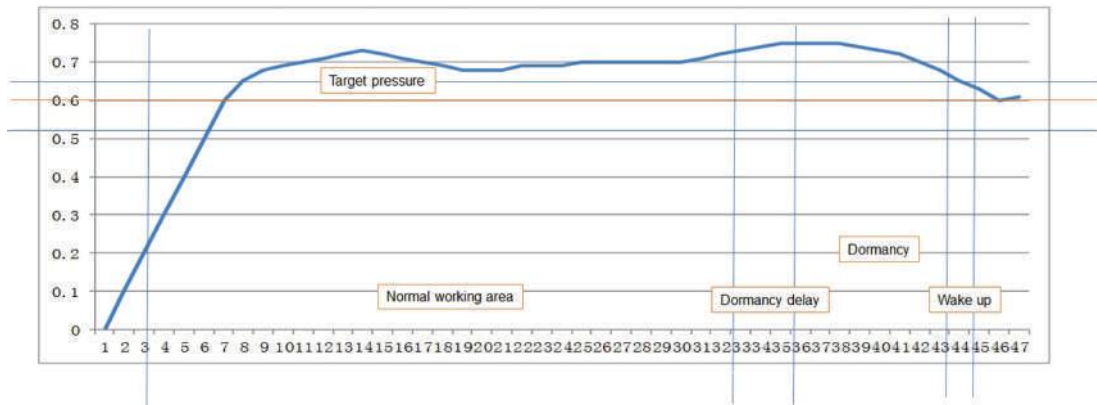


We Pioneered in delivering Integrated Drive Solution for PM Motor Screw Air Compressor

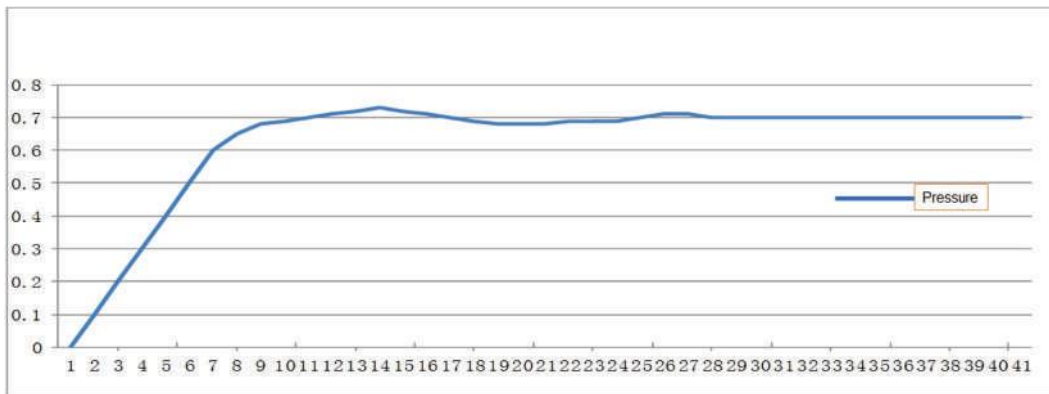
Key Features

- ▶ Built-In compressor solution PLC
- ▶ PID control for Pressure as well as for Temperature
- ▶ Compatible for PM & Induction Motor Compressors
- ▶ Variable frequency control for Air end motor and Fan motor thus saves power
- ▶ Wide operation voltage 380-440V (-15%~+10%)
- ▶ 50-degree Ambient operation (without De-rating)
- ▶ Special air duct design: Easy to maintain and clean, suitable for different environment
- ▶ Customizable Built-in Compressor solution HMI
- ▶ Easy commissioning & auto tuning through HMI

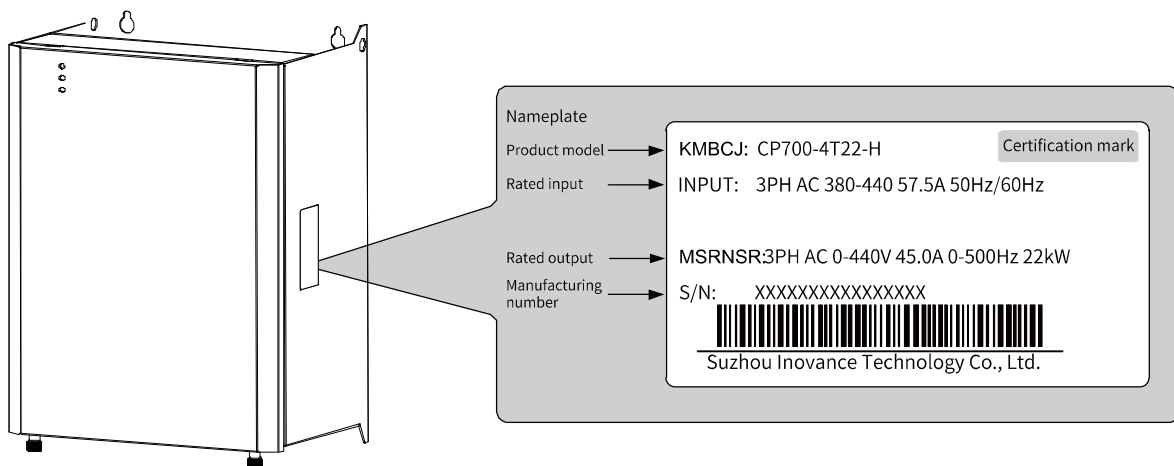
Intelligent control



Special advance PID algorithm



Model Identification



CP700 - 4T 22 - H

ID	Product Series
CP700	AC drive for air compressors

ID	Voltage Class
2T	Three phase 200~240 V
4T	Three phase 380~440 V

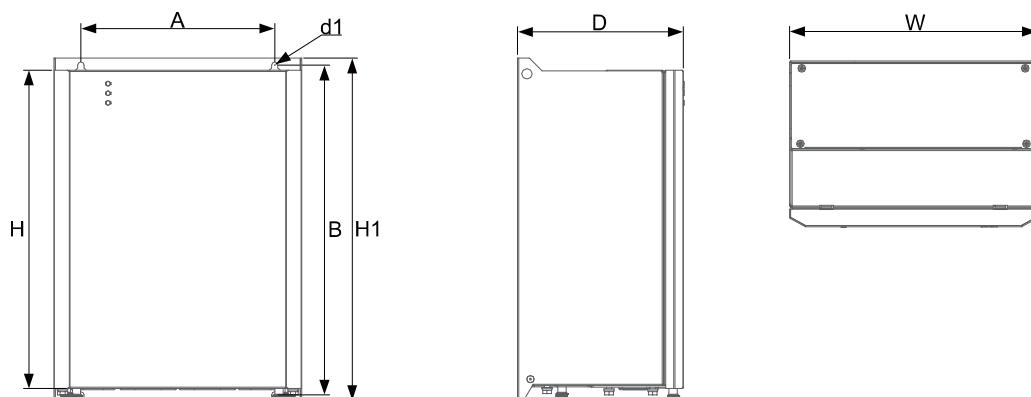
ID	Mounting Mode
H	Backplate mounting

ID	Motor (kW)
5.5	5.5
...	
75	75

Model Identification

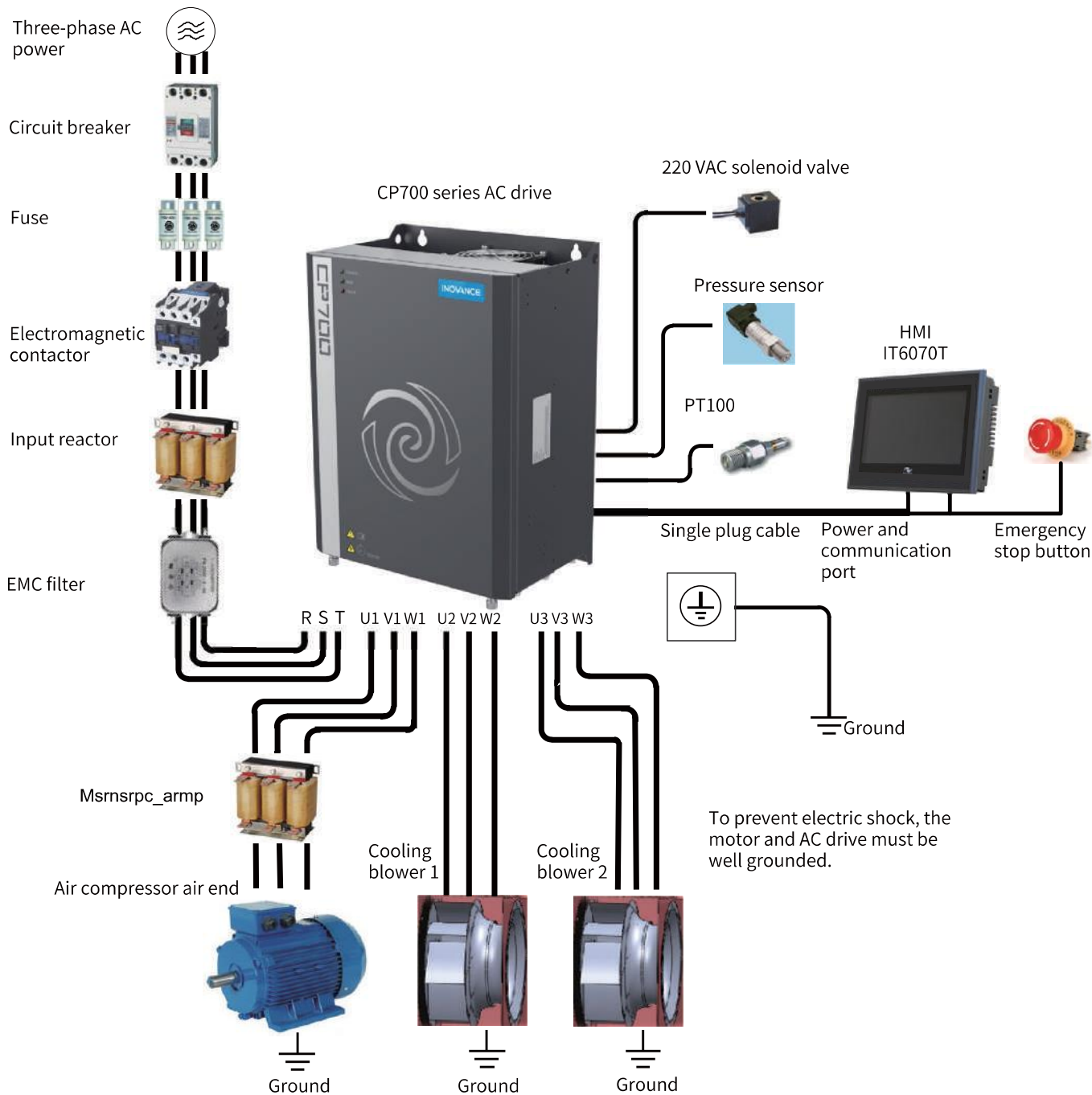
Model	Main Cooling Blower			Variable Frequency Cooling Blower		Mains Frequency Cooling Blower	
	Power (kW)	Input Current (A)	Msmnsr Current (A)	Power (kW)	Rated Current (A)	Power (kW)	Rated Current (A)
Three phase 200 VAC to 240 VAC, 50/60 Hz							
CP700-2T7.5-H	7.5	35.0	32.0	/	/	0.25	1.5
CP700-2T11-H	11	49.5	45.0	0.45	2.1	0.45	2.1
CP700-2T15-H	15	60.0	55.0	0.45	2.1	0.45	2.1
CP700-2T18.5-H	18.5	65.0	60.0	0.75	3.8	0.45	2.1
CP700-2T22-H	22	80	75	0.75	3.8	0.45	2.1
CP700-2T30-H	30	120.9	112	2.2	9.0	0.45	2.1
CP700-2T37-H	37	134.0	125.0	2.2	9.0	0.45	2.1
CP700-2T45-H	45	159.2	150.0	2.2	9.0	0.45	2.1
Three phase 380 VAC to 440 VAC, 50/60 Hz							
CP700-4T5.5-H	5.5	15.9	13	/	/	0.4	1.5
CP700-4T7.5-H	7.5	20.5	17	/	/	0.4	1.5
CP700-4T11-H	11	26	25	/	/	0.4	1.5
CP700-4T15-H	15	35	32	/	/	0.4	1.5
CP700-4T18.5-H	18.5	47.2	37.0	0.75	2.1	0.75	2.1
CP700-4T22-H	22	57.5	45.0	0.75	2.1	0.75	2.1
CP700-4T30-H	30	65.0	60.0	1.5	3.8	0.75	2.1
CP700-4T37-H	37	80.0	75.0	1.5	3.8	0.75	2.1
CP700-4T45-H	45	101.4	91.0	3.7	9.0	0.75	2.1
CP700-4T55-H	55	122.3	112.0	3.7	9.0	0.75	2.1
CP700-4T75-H	75	164.6	150.0	3.7	9.0	0.75	2.1

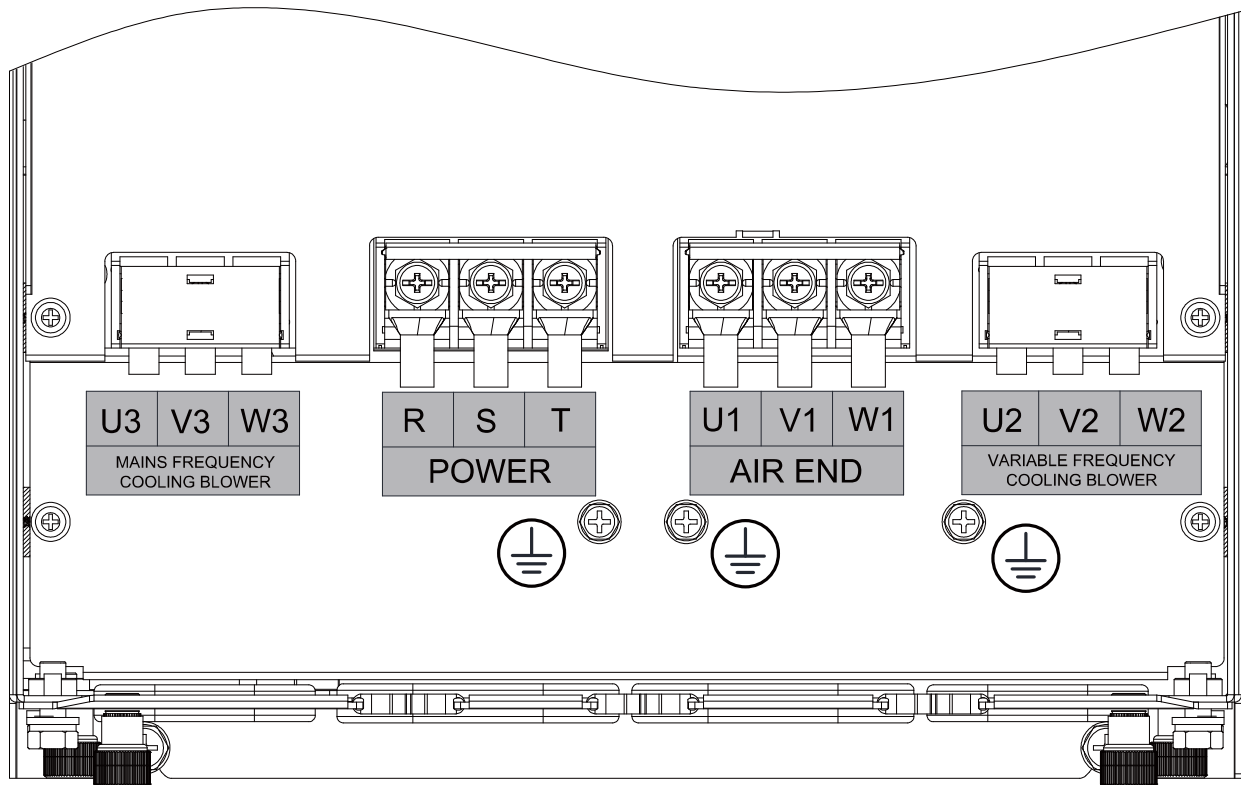
Dimensions



AC Drive Model	Physical Dimensions (mm)				Mounting Dimensions (mm)			Weight (kg)
	H1	H	W	D	A	B	d1	
Three phase 200 VAC to 240 VAC, 50/60 Hz								
CP700-2T7.5-H	384	357	208	176	180	371	Ž4	9.5
CP700-2T11-H	393	365	284	190	222	378	Ž5	14.5
CP700-2T15-H	393	365	284	190	222	378	Ž5	14.5
CP700-2T18.5-H	423	395	315	215	253	408	Ž5	24.3
CP700-2T22-H	423	395	315	215	253	408	Ž5	24.3
CP700-2T30-H	501	485	366	258	294	478	Ž/.	33.8
CP700-2T37-H	501	485	366	258	294	478	Ž/.	33.8
CP700-2T45-H	525	509	400	260	328	502	Ž/.	42.0
Three phase 380 VAC to 440 VAC, 50/60 Hz								
CP700-4T5.5-H	344	317	168	176	140	331	Ž4	7.0
CP700-4T7.5-H	344	317	168	176	140	331	Ž4	7.0
CP700-4T11-H	384	357	208	176	180	371	Ž4	9.5
CP700-4T15-H	384	357	208	176	180	371	Ž4	9.5
CP700-4T18.5-H	393	365	284	190	222	378	Ž5	14.5
CP700-4T22-H	393	365	284	190	222	378	Ž5	14.5
CP700-4T30-H	423	395	315	215	253	408	Ž5	24.3
CP700-4T37-H	423	395	315	215	253	408	Ž5	24.3
CP700-4T45-H	501	485	366	258	294	478	Ž/.	33.8
CP700-4T55-H	501	485	366	258	294	478	Ž/.	33.8
CP700-4T75-H	525	509	400	260	328	502	Ž/.	42.0

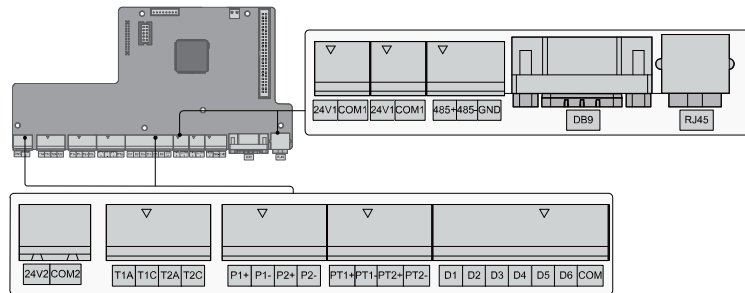
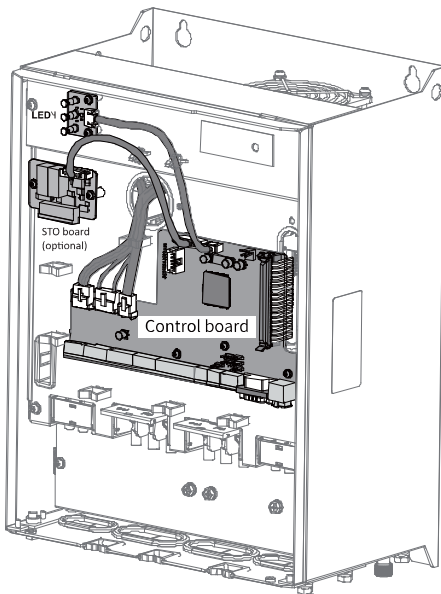
Electrical Connection Details





Terminal Symbol	Terminal Name	Function Description
R, S, and T	Input terminal	Three-phase AC input
U1, V1, and W1	Output terminal	Air end three-phase AC output
U2, V2, and W2	Mains frequency cooling blower terminal	Three phase 220 V: 7.5 kW three-phase AC output Three phase 380 V: 5.5–15 kW three-phase AC output
	Variable frequency cooling blower terminal	Three phase 380 V: 18.5–75 kW three-phase AC output
U3, V3, and W3	Mains frequency cooling blower terminal	Three phase 220 V: 11–45 kW three-phase AC output
		Three phase 380 V: 18.5–75 kW three-phase AC output
⏏	Grounding terminal	PE grounding

Control Terminals

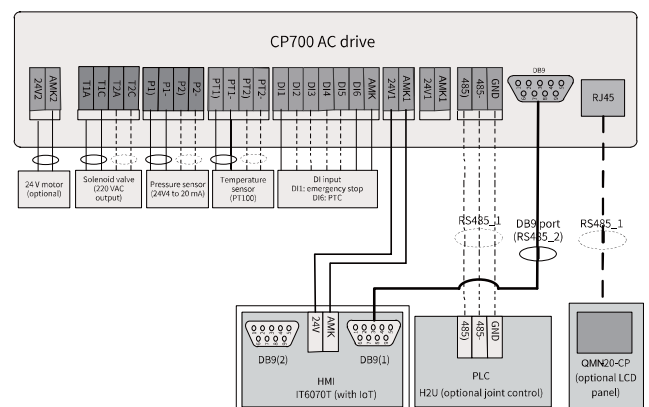
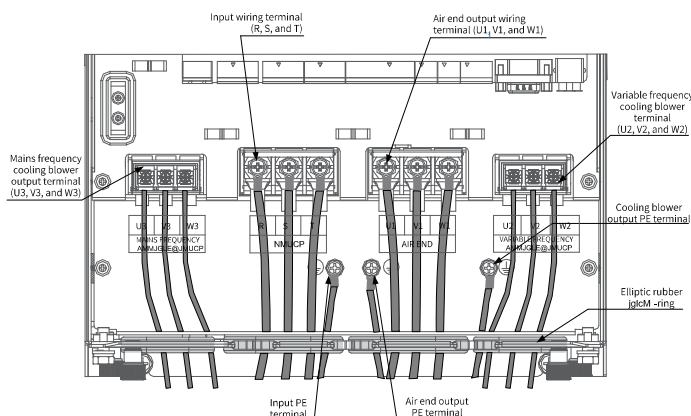


Category	Terminal Symbol	Function Description	Rcaflga_jQncaga_rgmlq
Relay output	T1A, T1C, T2A, and T2C	Relay output T1A and T1C for the solenoid valves by default	Built-in 220 VAC power supply; power capacity 50 VA; T1A-T1C supported; T2A-T2C two-way current output; total output less than 0.2 A T1A-T1C: NO T2A-T2C: NO
Pressure sensor input	P1+ and P2+	Pressure sensor power input	24 VDC, 4–20 mA input, active
	P1- and P2-	Pressure sensor signal input	
Temperature sensor input	PT1+ and PT2+	Temperature sensor PT100 input	–25°C to +220°C temperature detection with deviation of $\pm 3^\circ\text{C}$, passive
	PT1- and PT2-		
Digital input	DI1–DI4	Common multi-function input terminals	Isolated drain input at a frequency lower than 100 Hz
	DI5–DI6	Common multi-function input terminals (PTC protection supported)	Isolated drain input at a frequency lower than 100 Hz; operation triggered when the PTC resistance is 2.3 k Ω
	COM	Common terminal of multi-function input terminals	Internally connected to GND
24V1 external power supply port	24V1	24 V power supplied in the board	24 V \pm 10%; maximum output current 500 mA; touch screen power supply
	COM1	24 V power ground in the board	

Control Terminals

Category	Terminal Symbol	Function Description	Technical Specifications												
24V2 external power supply port	24V2	Independent 24 V power supply	24 V power output (optional); output current 4 A												
	COM2	Independent 24 V power supply ground													
485 communication	485+	RS485 communication+	Half duplex RS485 communication; baud rate < 230 kbps; the 485 signal terminal consistent with DB9's second 485 terminal												
	485-	RS485 communication-													
	GND	RS485 reference ground													
DB9 port	DB9	Two-channel 485 communication	<p>Standard DB9 female socket with built-in two-channel 485 communication resources Pin definition is as follows:</p> <p>Definition for the first 485 channel:</p> <table border="1"> <tr> <td>pin1</td> <td>pin2</td> <td>pin5</td> </tr> <tr> <td>485+</td> <td>485-</td> <td>GND</td> </tr> </table> <p>Definition for the second 485 channel:</p> <table border="1"> <tr> <td>pin5</td> <td>pin6</td> <td>pin9</td> </tr> <tr> <td>GND</td> <td>485-</td> <td>485+</td> </tr> </table>	pin1	pin2	pin5	485+	485-	GND	pin5	pin6	pin9	GND	485-	485+
pin1	pin2	pin5													
485+	485-	GND													
pin5	pin6	pin9													
GND	485-	485+													
RJ45	485+ and 485-	RS485 communication+ RS485 communication- Connected with the LCD panel	Half duplex RS485 communication; baud rate < 230 kbps												

Wiring Recommendation





INOVANCE



India

Inova Automation Pvt . Ltd .
No. 11, Bethal Nagar, Seevaram, Perungudi, Chennai – 600906 Tel : +91 (0) 44 43800201
Sales office Ahmedabad Tel : (91) 79 4003 4272
Delhi, Mumbai, Kolakata, Pune, Benagaluru, Coimbatore, Hyderabad
Info.inovaindia@inova-automation.com



South Korea

Inova Automation Korea
Tel : (82) 10 74285732
info@inova-automation.com



Germany - Stuttgart

Inovance Technology Europe GmbH
Tel : (49) 7144 899 0s
ales@powerautomation.com



FRANCE - Bordeaux

Inovance Technology Europe GmbH
Tel : (33) 559 4010 50
Pa.france@powerautomation.com



ITALY – Milano

Inova Automation Italy Sri
Tel : (39) 02 26822318
info@inova-automation.it



Hong Kong Sar (Export Office)

Inova Automation Co., Ltd .
International Export Office
Tel : (852) 275106080
info@inova-automation.com



Iran – Teheran

Inova Automation (Parsian)
Tel : (98) 21 88600501/2
Info.iran@inova-automation.com



Turkey- Istanbul

Inova Automation Co., Ltd. Turkey
Tel : (90) 216 706 1789
Info.turkry@inova-automation.com