VEICHI

Integrated Hydraulic Servo Drive

VEICHI

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About us

VEICHI Electric (stock code: 688698) is a high-tech company focused on electrical drive and industrial control, offering a full range of industrial automation products. With facilities in Suzhou, Shenzhen, Xi'an, and a subsidiary in India, VEICHI serves customers worldwide with reliable and competitive offerings.

The company boasts an extensive portfolio of products, encompassing AC drives, servo systems, and control systems, which are widely utilized across various sectors such as heavy industry, light industry, and high-end equipment, providing scenario-based solutions that support the digital and intelligent transformation of the manufacturing industry. Moreover, the company is in lockstep with the zeitgeist, expanding its reach into burgeoning fields like robotics, renewable energy, and healthcare with a suite of innovative products, including hollow cup motors, frameless motors, hybrid inverters, and surgical power systems. These cutting-edge offerings significantly enhance the prosperity and advancement of the industries they serve.

Years of R&D efforts have led to mastery in the core technologies of motor control such as vector control of PMSM, V/F control, high-frequency pulse injection control, field-weakening control for higher speed etc, and of silicon carbide application, motor auto tuning, motor protection and fly track start-up. And it has also successfully cultivated a series of patented technologies with independent intellectual property rights. As of June 30, 2024, a total of 221 patents have been granted, including 51 patents for inventions.

Over the course of 19 years, VEICHI has earned recognition and certifications from national and authoritative bodies like the third batch of specialized, high-end and innovation-driven SMEs that provide distinctive products or services, "high-tech enterprise", "Jiangsu Provincial Engineering Technology Research Center", "Jiangsu Provincial Enterprise Technology Center", and "Jiangsu Industrial Internet Development Demonstration Enterprise (Benchmarking Factory Category)".

Steadfast in its commitment to the business philosophy of "guided by market demand and driven by technological innovation", VEICHI will fortify its research in key core technologies and enhance product iteration to expand relentlessly across the spectrum of high-performance and quality applications. This strategic focus will enable us to make significant contributions to the evolution of electrical drive and industrial control systems, propelling the industry forward with determination and vigor.

2005
Beginning in Shenzhen
First-generation of AC drives launched

2013
- Suzhou VEICHI Electric established
- First generation servo system launched

2014
- Suzhou VEICHI Phase I groundbreaking

2016
- Suzhou VEICHI Phase I project put into operation
- First generation control system launched

2019
- Strategic restructure to a joint stock company VEICHI
- India subsidiary established

2020
- SSE STAR Market landing
- Specialized, high-end and innovation-driven SMEs that provide distinctive products or services

2021
- VEICHI subsidiary established
- Third batch of specialized, high-end and innovation-driven SMEs that provide distinctive products or services

2022
- Xi'an R&D Center established
- VEICHI digital energy subsidiary established

2023
- Suzhou VEICHI Phase II put into operation
- Suzhou VEICHI Phase III put into operation
- VEICHI medical subsidiary established

VEICHI offers a comprehensive hydraulic servo system solution, enabling seamless data connection between management devices as cloud services and mobile apps, and control devices like PLCs and HMIs, as well as the execution devices as servo drives and servo motors by various communication buses.
Visualized and digitalized production management based on this solution leads to preciser industrial motion control, faster response, higher efficiency, and lower energy consumption, so that it is extensively applied in hydraulic machinery across sectors including injection molding, folding, die-casting, hydraulic, and more, helping to cut costs, boost efficiency, and advance green manufacturing practices.

Hydraulic Transmission System Drive and Motor Selection

1. Standard Configuration
Drive + Motor + Standard Pump. Check the hydraulic system's pump displacement, maximum system pressure, and motor speed during calculation.

2. System Torque and the Rated Motor Torque Calculation
System torque:
$T=p\times q\times 0.0159/\eta$
T— Required torque of the system, in N·m
p— System pressure, in bars
q— Pump displacement, in cc
η— Pump efficiency, generally taken as 0.9

Rated Motor Torque:
$T_N=T/K$
T_N—— Rated torque of the motor, in N·m
T—— Required torque of the system, in N·m
K——Motor overload factor, generally taken as 1.3

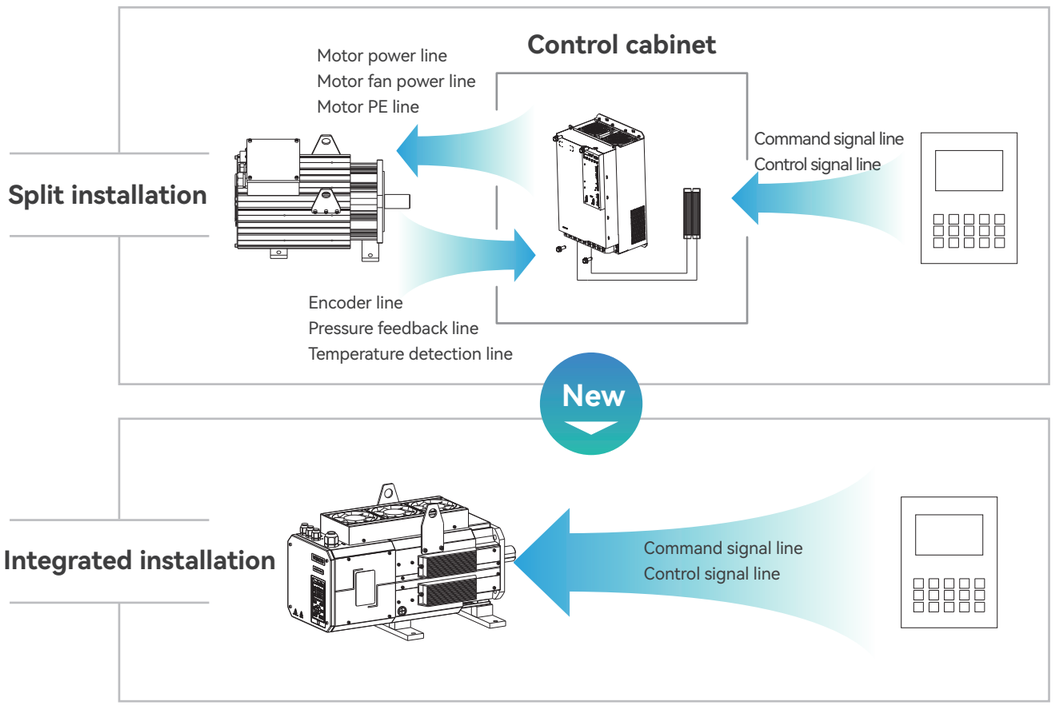
3. Motor and Drive Selection:
Motor:
Determine the rated torque and rated speed to select the appropriate motor based on the above requirements for motor torque and speed.
Drive:
Select the appropriate driver based on the determined motor specifications and the motor's rated power, rated current, and other parameters.

EHS100 Series

Integrated Servo Drive

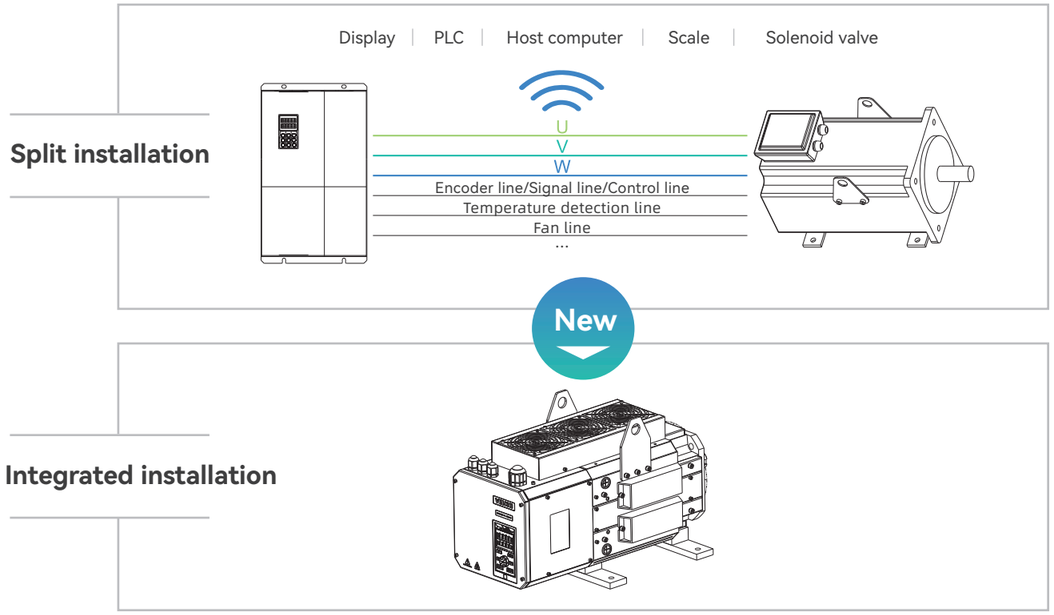
Product Features

The system is free of debugging and auto-tuning, and ready to use upon powered. It retains the original motor installation dimensions and methods but minimizes the cabinet space.
There's no need to connect various lines, such as motor power, fan power, temperature detection, encoder, brake resistor, or motor PE lines.



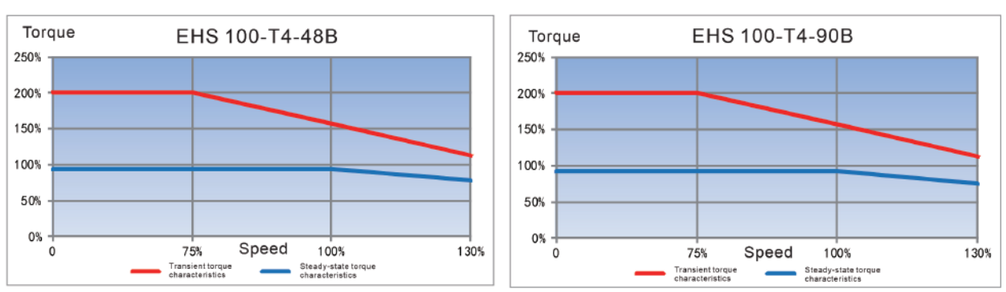
Minimized Radiation and Interference

System internal routing away from the electronic control cabinet, features an independent installation with an EMC grounding break design, a selectable leakage current jumper to enhance system EMC performance, minimize line-to-line distributed capacitance, and significantly reduce interference, boosting overall system resilience.



Permanent Magnet Synchronous Power

IPM integrated magnet design features low heat generation and quick response, with an industry-leading flux weakening algorithm and a max torque up to 2 times.



Portable Keypad

Keypad with standard network cable interface, support for long-distance extension, with a pocket for independent installation.

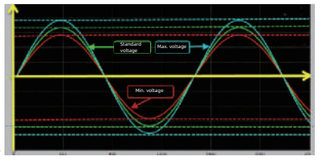
Standard network cable

Single keypad pocket

Dual keypad pocket

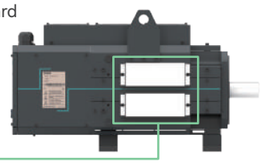
AC300V-AC480V Wide Power Input

An ultra-wide AC input voltage range for reliable equipment operation in extreme grid conditions.
Boost its adaptability to harsh environments.



Integrated Brake

Brake resistors come standard in the entire series.
Feature with easy assembly.



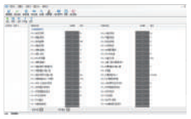
Smart Temperature Control

Feature with dual independent air duct design, and 70,000-hour cooling fan (IP56), combined with multi-point temperature monitoring, smart control.Allow the system to operate in the most suitable temperature range, improving stability and increase the service life of the fan, especially in the working conditions of the system under low load or standby function is obvious.

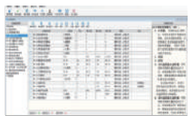
Powerful Monitoring Software

EHS100 boasts a user-friendly upper software for simple operation and parameter configuration. Users can control it via the keypad or VCEHSsoft Ver2.2 for parameter setting, copying, and monitoring tasks.
With real-time operation status, users have easier access to debugging, setting, monitoring, and troubleshooting. The software can be run under WINDOWS by the RS485 interface or a fieldbus.

Parameter setting module



Status monitoring module



Virtual oscilloscope module

Fault analysis module

Motor control module

EHS100 Naming Rules

EHS100-T 4-XX (XXX) X

Product series
EHS100 series

Voltage level
T:three-phase

Input voltage
4:400V

Rated speed (RPM)
A:1000 C:1800
B:1500 D:2000

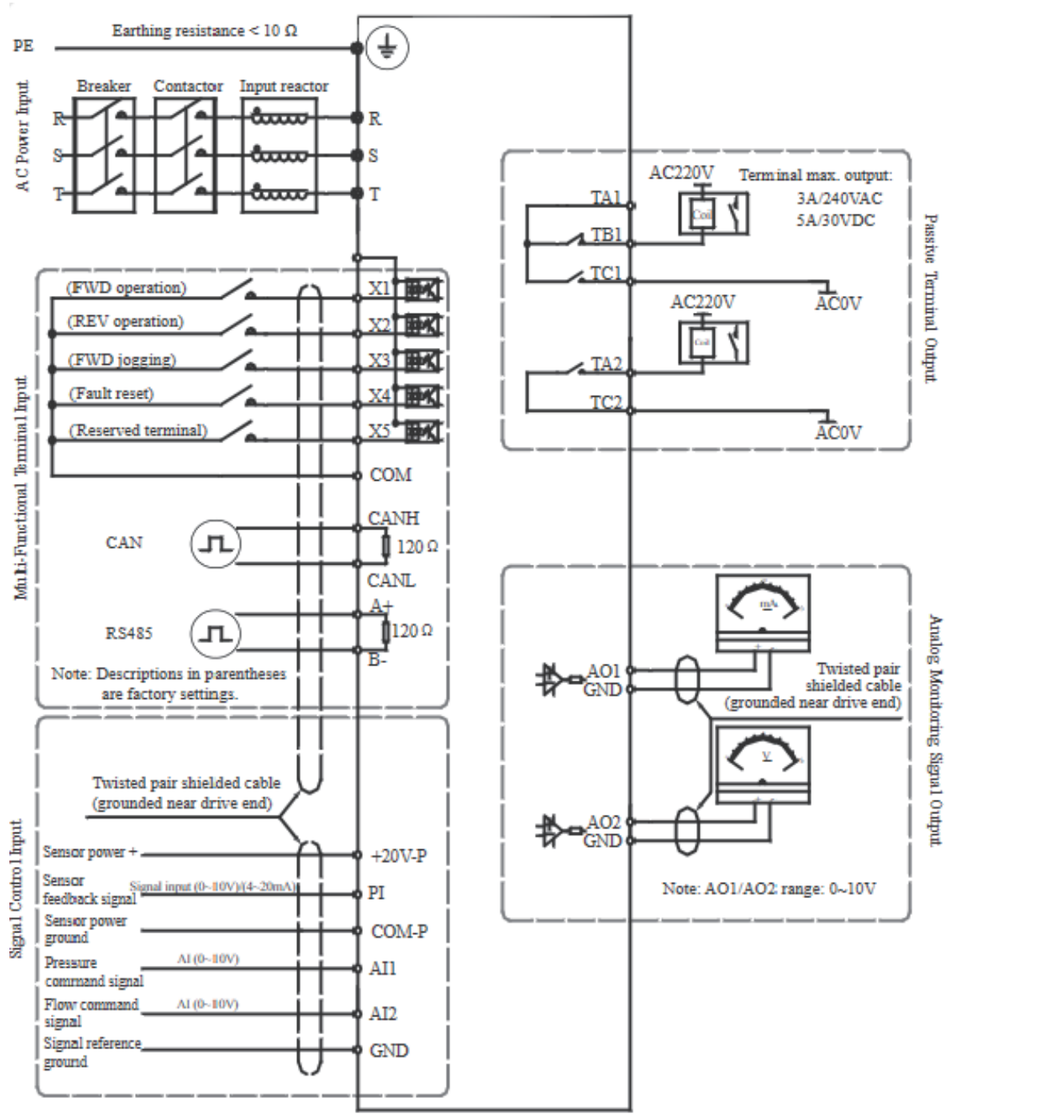
Rated torque (N·m)
48:48
...

Model	Rated torque (N·m)	Max. torque (N·m)	Rated speed (RPM)	Rated current (A)	Rated power (kW)	Max. power (kW)
EHS100-T4-9D	9	20	2000	3.5	2.0	4.0
EHS100-T4-14D	14	29	2000	5.4	2.9	6.0
EHS100-T4-21B	21	53	1500	6.4	3.3	8
EHS100-T4-21D	21	45	2000	8	4.4	9.4
EHS100-T4-26B	26	65	1500	7.9	4.4	10
EHS100-T4-26D	26	50	2000	11	5.5	11.7
EHS100-T4-35B	35	88.8	1500	10.6	5.5	13.9
EHS100-T4-35D	35	65	2000	14	7.5	13.9
EHS100-T4-45B	45	90	1500	15.8	7.0	16.9
EHS100-T4-48B	48	96	1500	14.5	7.5	15
EHS100-T4-48C	48	95	1800	17	9	22.5
EHS100-T4-55C	55	110	1800	19	10.4	20.7
EHS100-T4-55B	55	110	1500	15.8	8.6	17
EHS100-T4-70B	70	132	1500	19.0	10.4	20
EHS100-T4-70C	70	152	1800	23	13	28.9
EHS100-T4-90B	90	186	1500	27.5	14.6	29
EHS100-T4-90C	90	177	1800	32	17	34.3
EHS100-T4-105B	105	210	1500	30.0	16.5	33
EHS100-T4-105C	105	216	1800	36	20	41.2
EHS100-T4-145B	145	290	1500	41.0	22.7	45
EHS100-T4-145C	145	295	1800	52	27	54.9
EHS100-T4-185B	185	370	1500	53.5	29	58
EHS100-T4-185C	185	368	1800	67	35	69.6

EHS100 Technical Specifications

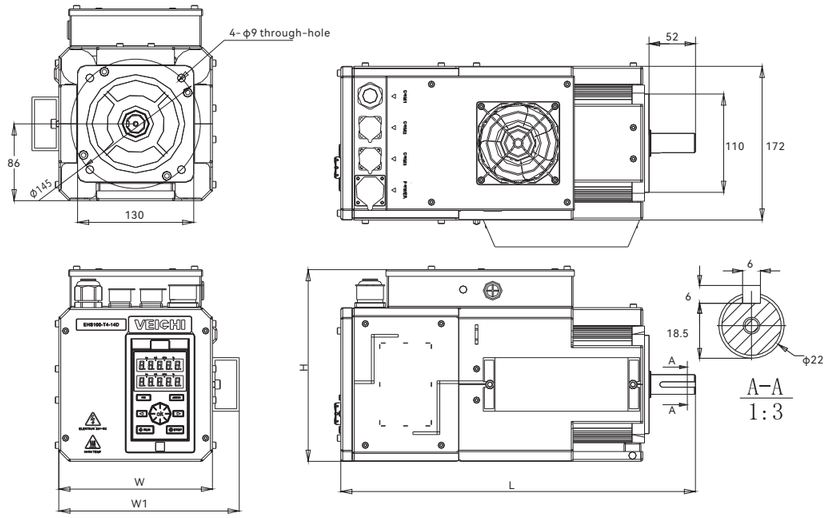
Item		Specifications	
Power input	Rated voltage	Three-phase 380V 50/60Hz	
	Voltage range	AC300V~AC480V	
	Closing impulse current	Lower than rated current	
Input and output	Overload capacity	150% of rated current for 60 seconds, 180% of rated current for 6 seconds	
	Modulation	SVPWM	
	Accel/decel. curve	Linear accel./decel., S-curve accel./decel	
	Auto current limit	Auto current limit to prevent frequent tripping due to overcurrent	
	Standard function	Oil pressure closed-loop control, speed control, RS485 communication, CAN and AO	
	Command source	Keypad, analog voltage terminal AI1 and AI2, etc.	
	Feedback input channel	Voltage terminal AI1	Range: 0~10V
		Voltage terminal AI2	Range: -10V~+10V
		Voltage/current terminal PI	Range: 0~10V/ 0~20mA
		Communication	All channels above support RS485 and CAN communication
	Command channel	Set via operation panel, external terminals and communication	
	Command signal input	Start, stop, forward and reverse, jog, multi-seg speed, free stop, reset, accel./decel. time, etc.	
	External signal output	2-channel relay output; 2-channel analog output, voltage range: 0~10V	
	Protection	Overvoltage, undervoltage, current limit, overload, overheat	
Keypad display	LED display	Dual-line 5-digit digital tube	To monitor 2 parameters
	Status monitoring	Pressure command, pressure feedback, speed setting, speed feedback, flow command, output current, output voltage, output torque, output power, bus voltage, module temperature, motor temperature, input terminal X status, etc.	
	Fault alarm	Auto-tuning abnormality, sensor feedback disconnection, motor overheat, servo drive overheat, encoder failure, communication failure, overvoltage, undervoltage, overcurrent, short circuit, phase loss, overload, overspeed, current limit, operating status of the current fault, historical fault	
Environment	Installation site	Indoors, altitude below 1000m without corrosive gas and direct sunlight	
	Temperature & humidity	-10℃~+40℃; 20%~95%RH (non-condensing)	
	Storage temperature	-25℃~+60℃	
	Installation method	Flange installation	
	Cooling	Forced air-cooled	

EHS100 Standard Wiring

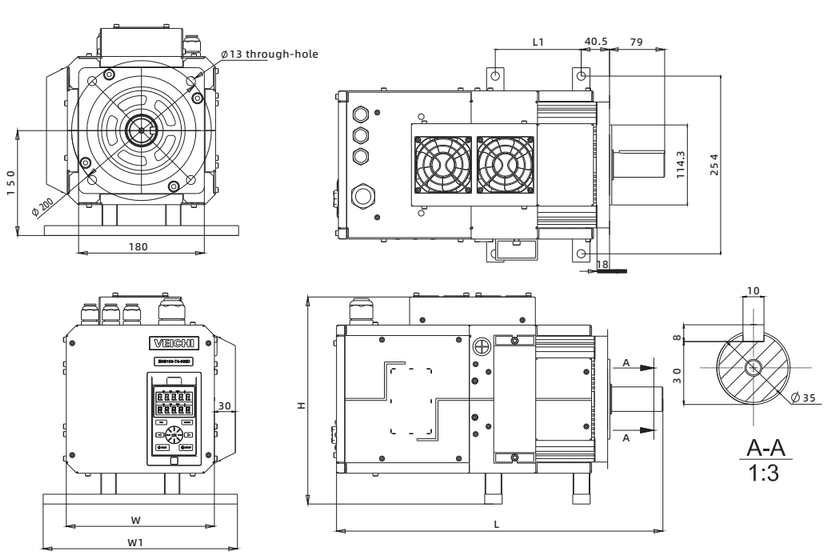


Legend: 1. Symbol ● represents the main circuit terminal.

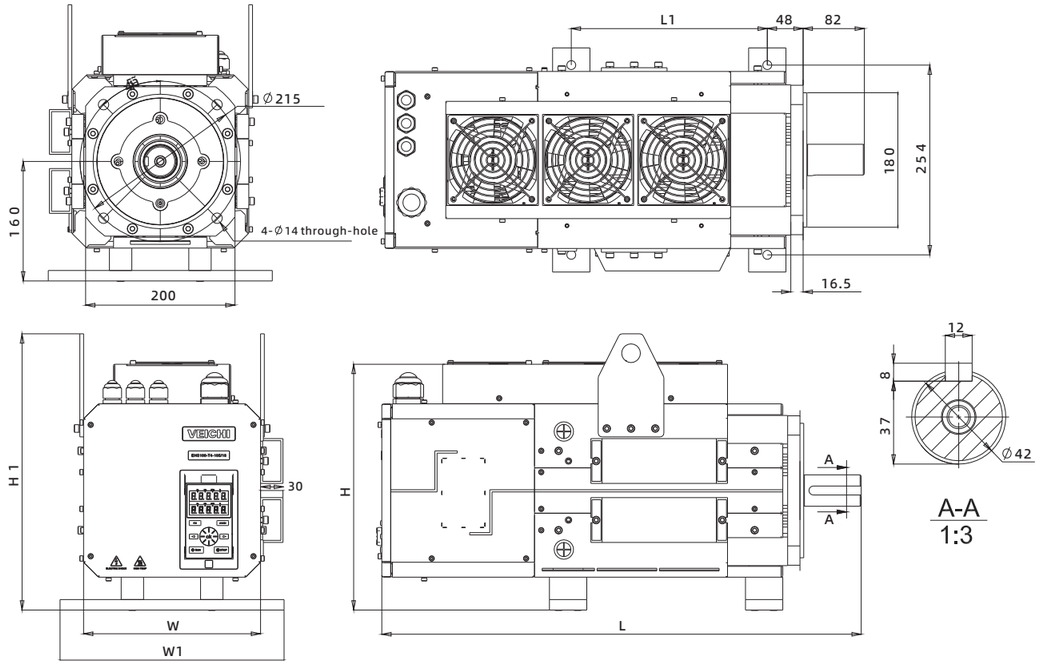
2. Symbol ○ represents the control circuit terminal.



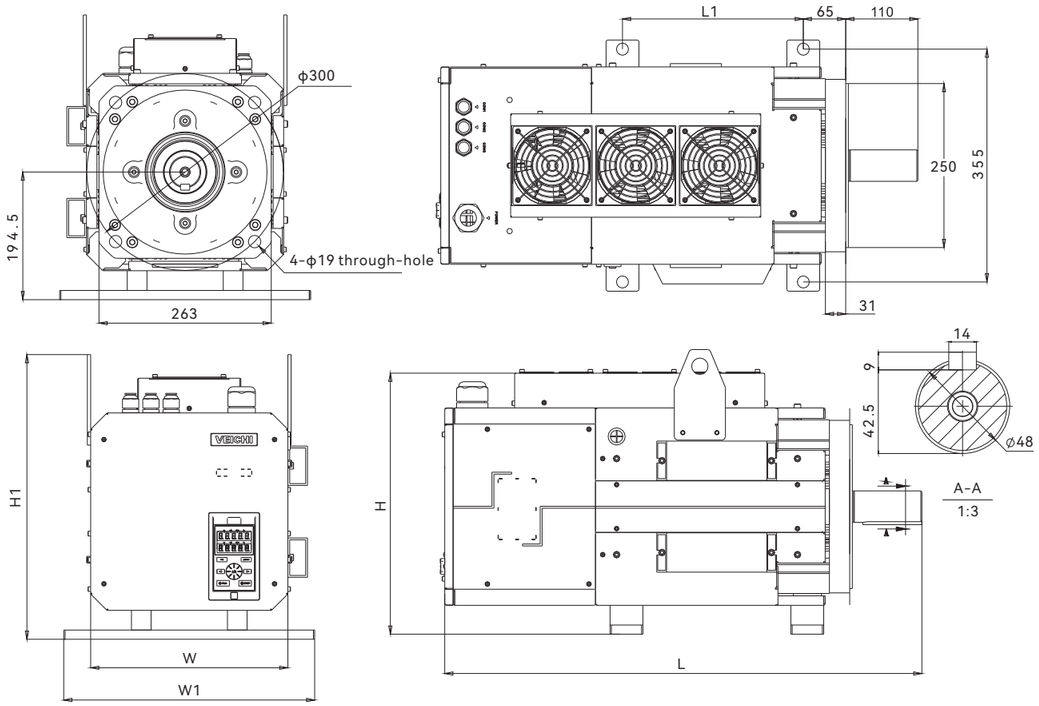
Model	Dimensions				Flange hole
	L	W	W1	H	
EHS100-T4-9D	397	172	202	214.5	Φ9
EHS100-T4-14D					



Model	Dimensions					Flange hole
	L	W	W1	H	L1	
EHS100-T4-21(B/D)	430	214	278	298	83	Φ12
EHS100-T4-26(B/D)	430				83	
EHS100-T4-35(B/D)	467				120	
EHS100-T4-45B	467				120	



Model	Dimensions						Anchor hole
	L	W	W1	H	H1	L1	
EHS100-T4-48(B/C)	532.5	235	278	332	325	150	Φ12
EHS100-T4-55(B/C)	569					186.5	
EHS100-T4-70(B/C)	569					186.5	
EHS100-T4-90(B/C)	605.5					223	
EHS100- T4-105(B/C)	642					259.5	



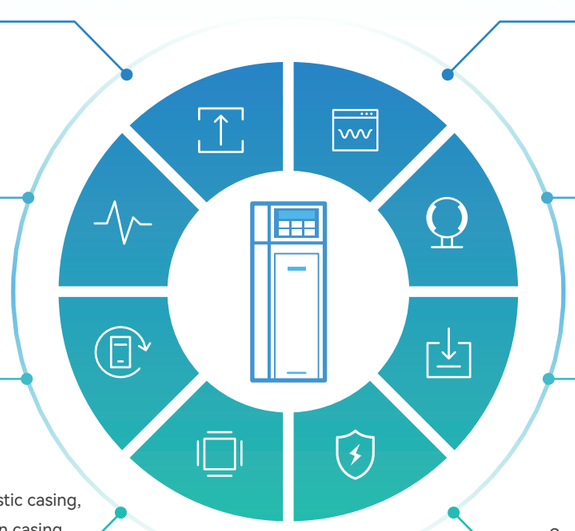
Model	Dimensions						Anchor hole
	L	W	W1	H	H1	L1	
EHS100- T4-145(B/C)	684.5	299	383	401	439	225.5	Φ18.5
EHS100-T4-185(B/C)	728					269	

EHS300 Series

Hydraulic Servo Drive

The EHS300 series hydraulic servo drive is a new generation of VEICHI's high-performance hydraulic servo product. Utilizing a novel magnetic flux linkage observer for vector decoupling, this servo drive achieves high-performance vector control of permanent magnet synchronous motors.
They are mainly used in machines for plastic molding, pipe extrusion, shoe making,resource recycling and baling,rubber, die-casting, hydraulic industries, bending and more.

Product Features



EHS300 Naming Rules

EHS300 - XX - XXX - X X X - XX

Product series
EHS300 series hydraulic servo drive

Voltage level
S2: single-phase 220V
T2: three-phase 220V
T4: three-phase 380V

Power level （R denotes decimal point in kW）
7R5：7.5kW;
011：11kW ;
...

Management code
Letter: customized machine code
...: omitted if no customization

Management code
L: with DC reactor
...: without DC reactor

Management code
B: with brake unit
...: without brake unit

Standard PG type
R: rotary transformer
C: 23-bit absolute encoder

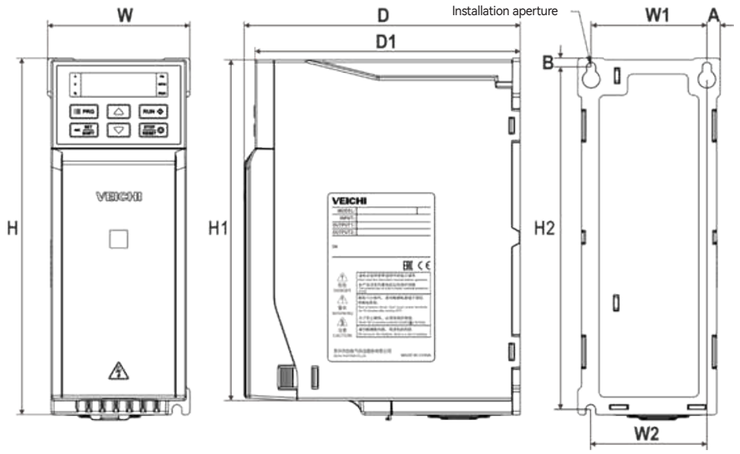
General Model Rated Current

Model	Max. PM power	Rated current	Model	Max. PM power	Rated current
EHS300-T2-7R5-RB	7.5kW	30A	EHS300-T4-7R5-RB	7.5kW	17A
EHS300-T2-011-RB	11kW	42A	EHS300-T4-011-RB	11kW	25A
EHS300-T2-015-RB	15kW	55A	EHS300-T4-015-RB	15kW	32A
EHS300-T2-018-RB	18.5kW	70A	EHS300-T4-018-RB	18.5kW	38A
EHS300-T2-022-RB	22kW	80A	EHS300-T4-022-RB	22kW	45A
EHS300-T2-030-RB	30kW	110A	EHS300-T4-030-RB	30kW	60A
EHS300-T2-037-RB	37kW	130A	EHS300-T4-037-RB	37kW	75A
EHS300-T2-045-RB	45kW	160A	EHS300-T4-045-RB	45kW	90A
EHS300-T2-055-RB	55kW	200A	EHS300-T4-055-RB	55kW	110A
EHS300-T2-075-RL	75kW	260A	EHS300-T4-075-RB	75kW	150A
EHS300-T4-090-RB	90kW	180A	EHS300-T4-280-RL	280kW	510A
EHS300-T4-110-RB	110kW	210A	EHS300-T4-315-RL	315kW	600A
EHS300-T4-132-RL	132kW	250A	EHS300-T4-355-RL	355kW	670A
EHS300-T4-160-RL	160kW	310A	EHS300-T4-400-RL	400kW	750A
EHS300-T4-185-RL	185kW	340A	EHS300-T4-450-RL	450kW	810A
EHS300-T4-200-RL	200kW	380A	EHS300-T4-500-RL	500kW	860A
EHS300-T4-220-RL	220kW	415A	EHS300-T4-560-RL	560kW	990A
EHS300-T4-250-RL	250kW	470A			

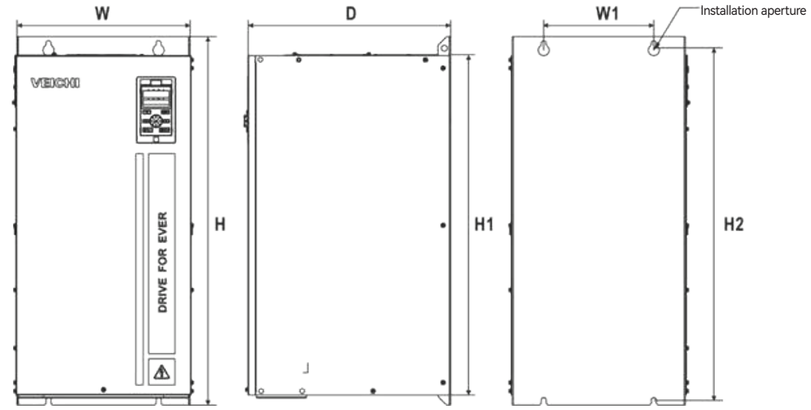
EHS300 Technical Specifications

Item		Specifications
Basic function	Control mode	Open-loop vector control (SVC); close-loop vector control (FVC); V/F control
	Input frequency resolution	Number setting: 0.01Hz; analog setting: max. frequency×0.05%
	Starting torque	0.5Hz/150%(SVC);0Hz/200%(FVC)
	Torque control accuracy	FVC: ±3%; SVC: 10Hz and above ± 5%
	Torque boost	Auto torque boost: 0.0%~100.0%; manual torque boost: 0.0%~30.0%
	Speed control range	1:100(SVC);1:1000(FVC)
	Steady speed accuracy	≤±2%(SVC);≤±0.05%（FVC）
	V/F curve	Linear torque characteristic curve, user-defined V/F curve, torque drop curves (1.1~2.0 power), square V/F curve
	Accel/decel. curve	Linear accel./decel., S-curve accel./decel.; 4 sets of accel./decel. time, range: 0.0s~650s
	DC braking	DC braking start frequency: 0.00Hz~max. frequency; Braking time: 0.0s~60.0s; Braking action current: 0.0%~150.0%
	Auto voltage regulration（AVR）	Automatically keep a constant output voltage when the fluctuates
	Overvoltage and overcurrent control	Auto current limit during operation to prevent frequent tripping from overcurrent and overvoltage
Operation	Operation command	Keypad, external terminals and communication
	Input command	Start, stop, forward and reverse, jog, multi-frequency, free stop, reset, acceleration/deceleration time, frequency channel selection, external fault alarms
	Frequency command	Keypad, analog voltage, analog current, communication, etc. and can be switched in various ways
	Input terminal	5 DI terminals; 3 AI terminals, 2 support -10V~10V voltage input or 0~20mA input, and 1 supports 0V~10V voltage input or 0~20mA current input
	Output terminal	2 RO terminals 2 AO terminals Voltage output range: 0V~10V, current output range: 0mA~20mA
Protection	Protection	Protection against over-voltage, under-voltage, over-current, overload, overheat, over-voltage stall, data damage, overspeed, input/output phase loss, short circuit
Keypad display	LED display	Single line 5-digit digital tube　　To display 1 status parameter
	Parameter copy	Upload/download function code information of the drive for fast parameter copying
	Status monitoring	Pressure command, pressure feedback, target speed, speed feedback, flow command, output current, input voltage, output voltage, output speed, output torque, output power, bus voltage, module temperature, motor temperature, terminal X on/off, terminal Y on/off, all parameters in the monitoring group
	Fault alarm	Auto-tuning abnormality, sensor feedback disconnection, motor overheat, drive overheat, encoder failure, communication failure, overvoltage, undervoltage, overcurrent, short-circuit, phase loss, overload, overspeed, current limit, corrupted data protection, current faulty operating condition, historical faults
Environment	Working environment	Indoors without direct sunlight, corrosive gas, combustible gas, oil mist, water vapor, dripping water, dust, etc.
	Altitude	< 1000m， derate 1% for every 100 meters rise when above 1000m; 3000m max.
	Temperature	-10℃ ~ +40℃; derate 1.5% for every1 ℃ rise when above 40℃， 50℃ max.
	Humidity	20%~95%RH non-condensing
	Vibration	< 0.5g
	Storage temperature	-25℃~+60℃
	Installation method	Wall-mounted
	IP	IP20
	Cooling	Forced air-cooled

EHS300 Installation Dimensions

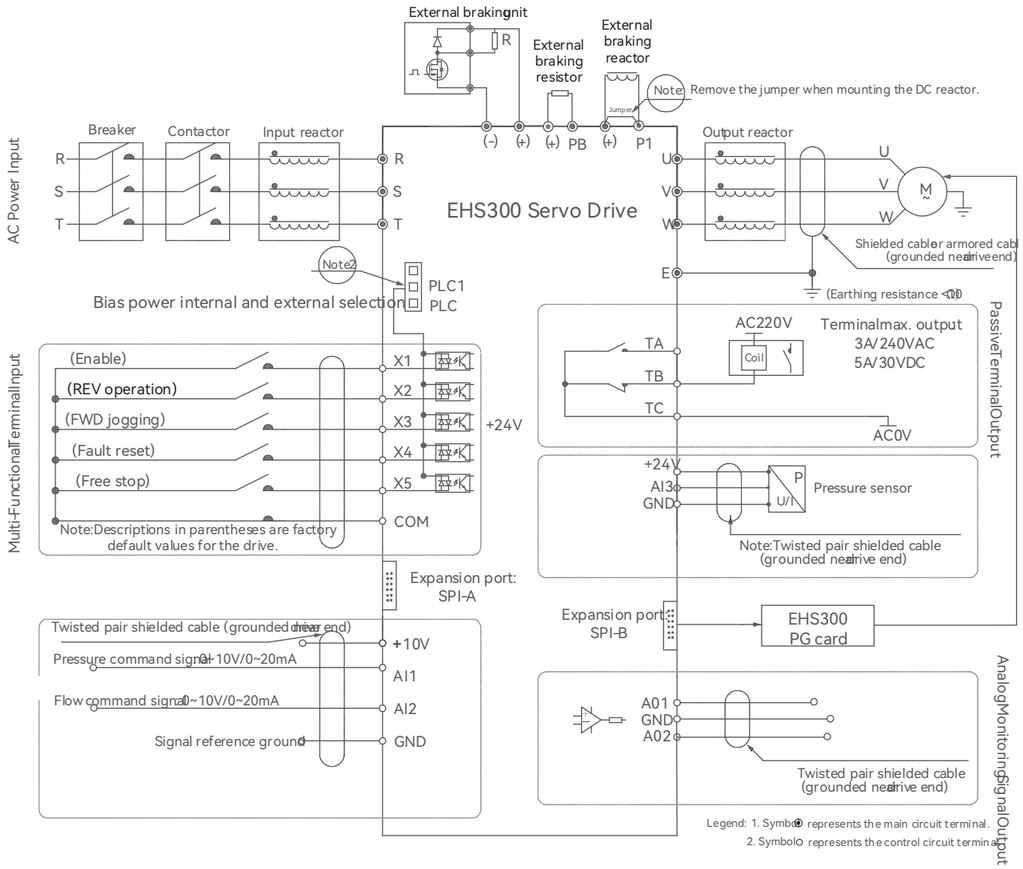


Case	Drive	Dimension mm					Hole position mm					Weight kg	Aperture mm
		W	H	H1	D	D1	W1	W2	H2	A	B		
V3	EHS300-T4-7R5-RB	116	320	307.5	175	169	98	100	307.5	5.5	6	3.5	3-M5
	EHS300-T4-011-RB												
V4	EHS300-T/S2-7R5-RB	142	383	372	225	219	125	100	372	8	6	6	4-M5
	EHS300-T/S2-011-RB												
	EHS300-T4-015-RB												
	EHS300-T4-018-RB												
	EHS300-T4-022-RB												
V5	EHS300-T/S2-015-RB	172	430	/	225	219	150	150	416.5	9	7.5	11	4-M5
	EHS300-T2-018-RB												
	EHS300-T2-022-RB												
	EHS300-T4-030-RB												
	EHS300-T4-037-RB												

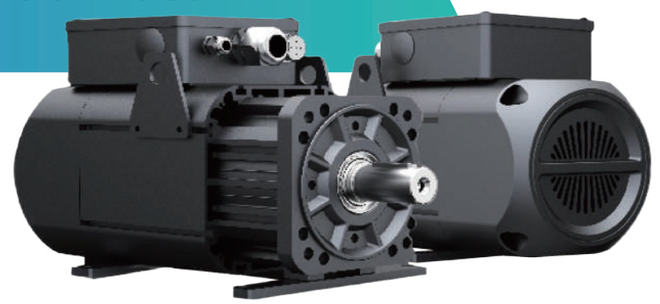


Case	Drive	Dimension mm				Hole position mm		Weight kg	Aperture mm
		W	H	H1	D	W1	H2		
V6	EHS300-T2-030-RB	240	560	520	310	176	544	26	4-M6
	EHS300-T4-045-RB								
	EHS300-T4-055-RB								
	EHS300-T4-075-RB								
	EHS300-T2-037-RB								
	EHS300-T2-045-RB								
V7	EHS300-T2-055-RB	270	638	580	350	195	615	35	4-M8
	EHS300-T4-090-RB								
	EHS300-T4-110-RB								
V8	EHS300-T4-132-RL	350	738	680	405	220	715	66.5	4-M8
	EHS300-T4-160-RL								
V9	EHS300-T4-185-RL	360	940	850	480	200	910	97	4-M16
	EHS300-T4-200-RL								
	EHS300-T4-220-RL								
V10	EHS300-T4-250-RL	370	1140	1050	545	200	1110	126.5	4-M16
	EHS300-T4-280-RL								
V11	EHS300-T4-315-RL	400	1250	1140	545	240	1213	167	4-M16
	EHS300-T4-355-RL								
	EHS300-T4-400-RL								
V12	EHS300-T4-450-RL	460	1400	1293	545	300	1363	235	4-M16
	EHS300-T4-500-RL								
	EHS300-T4-560-RL								

EHS300 Standard Wiring



Permanent Magnet Synchronous Motor



Naming Rules

SM XX XXX X XX X X-X

Servo motor

Base ID
18:180 seam allowance
25: 250 seam allowance
35: 350 seam allowance

Rated torque
32: 32N·m
...
1350: 1350N·m

Cooling
F: forced air cooling
W: water cooling

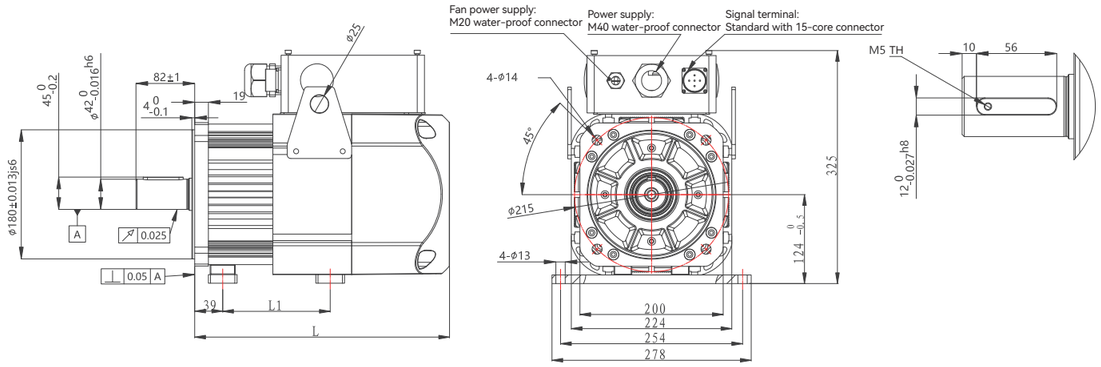
Rated voltage
C: 220V AC
D: 380V AC

Rated speed
15: 1500rpm
17: 1700rpm
20: 2000rpm

Encoder type
R: rotary transformer encoder

Management code

SM18 Series Air Cooling



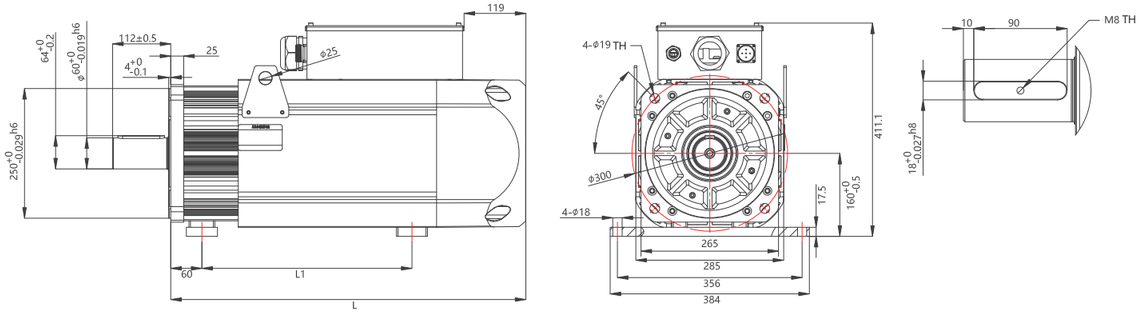
Motor model	Rated torque	Rated speed	Rated frequency	Rated current	Rated power	KT	Back emf	Power level	Max. torque	Rotor inertia	Length (mm)		Mass
	N·m	RPM	Hz	A	kW		V	V	N·m	kg·cm²	L	L1	Kg
SM1832F15DR	32	1500	100	9.7	5.0	3.3	305	380	83	47.1	355.5	150	38.20
SM1832F17DR	32	1700	113.3	10.5	5.5	3.1	305	380	83	47.1	355.5	150	38.20
SM1832F20DR	32	2000	133.3	12.5	6.7	2.6	308	380	83	47.1	355.5	150	38.20
SM1842F15DR	42	1500	100	12.8	6.6	3.3	300	380	110	53.8	355.5	150	40.10
SM1842F17DR	42	1700	113.3	14.1	7.5	3.0	307	380	110	53.8	355.5	150	40.10
SM1842F20DR	42	2000	133.3	16.5	8.8	2.6	310	380	110	53.8	355.5	150	40.10
SM1853F15DR	53	1500	100	17.5	8.3	3.3	300	380	137	60.5	385.5	180	43.50
SM1853F17DR	53	1700	113.3	18.2	9.4	2.9	299	380	137	60.5	385.5	180	43.50
SM1853F20DR	53	2000	133.3	20.3	11.1	2.6	316	380	137	60.5	385.5	180	43.50
SM1863F15DR	63	1500	100	21.0	9.9	3.3	301	380	164	67.2	385.5	180	45.40
SM1863F17DR	63	1700	113.3	22.2	11.2	2.8	301	380	164	67.2	385.5	180	45.40
SM1863F20DR	63	2000	133.3	25.3	13.2	2.5	303	380	164	67.2	385.5	180	45.40
SM1873F15DR	73	1500	100	22.1	11.5	3.3	302	380	191	74.8	415.5	210	48.80
SM1873F17DR	73	1700	113.3	25.7	13.0	2.8	301	380	191	74.8	415.5	210	48.80
SM1873F20DR	73	2000	133.3	28.4	15.3	2.6	312	380	191	74.8	415.5	210	48.80
SM1884F15DR	84	1500	100	25.3	13.2	3.3	303	380	218	81.5	415.5	210	50.70
SM1884F17DR	84	1700	113.3	29.4	15.0	2.9	300	380	218	81.5	415.5	210	50.70
SM1884F20DR	84	2000	133.3	32.9	17.6	2.6	310	380	218	81.5	415.5	210	50.70
SM1895F15DR	95	1500	100	28.8	14.9	3.3	301	380	245	88.2	445.5	240	54.10
SM1895F17DR	95	1700	113.3	32.1	16.9	3.0	305	380	245	88.2	445.5	240	54.10
SM1895F20DR	95	2000	133.3	36.4	19.9	2.6	316	380	245	88.2	445.5	240	54.10
SM18105F15DR	105	1500	100	31.9	16.5	3.3	300	380	272	94.9	445.5	240	56.00
SM18105F17DR	105	1700	113.3	35.2	18.7	3.0	307	380	272	94.9	445.5	240	56.00
SM18105F20DR	105	2000	133.3	40.2	22.0	2.6	316	380	272	94.9	445.5	240	56.00
SM18126F15DR	126	1500	100	37.4	19.8	3.4	306	380	326	109.2	475.5	270	66.70
SM18126F17DR	126	1700	113.3	41.9	22.4	3.0	311	380	326	109.2	475.5	270	66.70
SM18126F20DR	126	2000	133.3	49.4	26.4	2.6	311	380	326	109.2	475.5	270	66.70
SM18147F15DR	147	1500	100	43.4	23.1	3.4	308	380	380	122.6	505.5	300	72.90
SM18147F17DR	147	1700	113.3	49.3	26.2	3.0	307	380	380	122.6	505.5	300	72.90
SM18147F20DR	147	2000	133.3	57.2	30.8	2.6	312	380	380	122.6	505.5	300	72.90
SM18168F15DR	168	1500	100	51.7	26.4	3.3	297	380	434	136	535.5	330	79.10
SM18168F17DR	168	1700	113.3	57.1	29.9	2.9	303	380	434	136	535.5	330	79.10
SM18168F20DR	168	2000	133.3	63.9	35.2	2.6	319	380	434	136	535.5	330	79.10
SM18189F15DR	189	1500	100	56.1	29.7	3.4	306	380	488	149.4	565.5	360	85.30
SM18189F17DR	189	1700	113.3	62.6	33.6	3.0	312	380	488	149.4	565.5	360	85.30
SM18189F20DR	189	2000	133.3	71.3	39.6	2.7	321	380	488	149.4	565.5	360	85.30
SM18210F15DR	210	1500	100	62.7	33.0	3.4	305	380	542	162.8	595.5	390	91.50
SM18210F17DR	210	1700	113.3	71.2	37.4	3.0	304	380	542	162.8	595.5	390	91.50
SM18210F20DR	210	2000	133.3	82.4	44.0	2.6	310	380	542	162.8	595.5	390	91.50

SM25 Series Air Cooling

Motor model	Rated torque	Rated speed	Rated frequency	Rated current	Rated power	KT	Back emf	Power level	Max. torque	Rotor inertia	Length (mm)		Mass
	N·m	RPM	Hz	A	kW		V	V	N·m	kg·cm²	L	L1	Kg
SM25162F15DR	162	1500	100	42.9	25.4	3.8	343	380	330	282.7	474.5	195	92.50
SM25162F17DR	162	1700	113.3	49.1	28.8	3.3	339	380	330	282.7	474.5	195	92.50
SM25162F20DR	162	2000	133.3	59.6	33.9	2.7	329	380	330	282.7	474.5	195	92.50
SM25214F15DR	215	1500	100	57.3	33.8	3.8	341	380	440	360.4	509.5	230	104.00
SM25214F17DR	215	1700	113.3	66.4	38.3	3.2	333	380	440	360.4	509.5	230	104.00
SM25214F20DR	215	2000	133.3	75.4	45.0	2.9	344	380	440	360.4	509.5	230	104.00
SM25268F15DR	268	1500	100	69.1	42.1	3.9	352	380	550	438.1	544.5	265	115.50
SM25268F17DR	268	1700	113.3	82.7	47.7	3.2	333	380	550	438.1	544.5	265	115.50
SM25268F20DR	268	2000	133.3	97.5	56.1	2.8	332	380	550	438.1	544.5	265	115.50
SM25320F15DR	320	1500	100	82.5	50.3	3.9	352	380	660	515.8	579.5	300	127.50
SM25320F17DR	320	1700	113.3	97.0	57.0	3.3	339	380	660	515.8	579.5	300	127.50
SM25320F20DR	320	2000	133.3	117.6	67.0	2.7	329	380	660	515.8	579.5	300	127.50

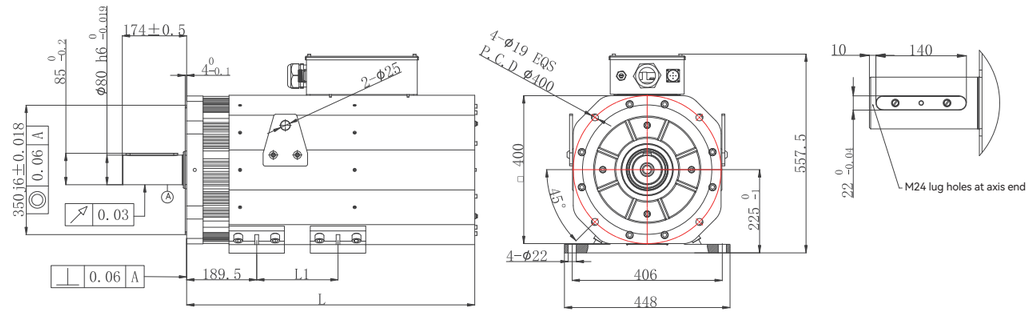
Motor model	Rated torque	Rated speed	Rated frequency	Rated current	Rated power	KT	Back emf	Power level	Max. torque	Rotor inertia	Length (mm)		Mass
	N·m	RPM	Hz	A	kW		V	V	N·m	kg·cm²	L	L1	Kg
SM25378F15DR	378	1500	100	98.2	59.4	3.9	350	380	770	593.5	614.5	335	138.50
SM25378F17DR	378	1700	113.3	119.2	67.3	3.2	326	380	770	593.5	614.5	335	138.50
SM25378F20DR	378	2000	133.3	139.0	79.2	2.7	329	380	770	593.5	614.5	335	138.50
SM25428F15DR	428	1500	100	110.3	67.2	3.9	352	380	880	671.2	649.5	370	150.00
SM25428F17DR	428	1700	113.3	127.4	76.2	3.4	346	380	880	671.2	649.5	370	150.00
SM25428F20DR	428	2000	133.3	150.2	89.6	2.9	344	380	880	671.2	649.5	370	150.00

SM25 Series Air Cooling



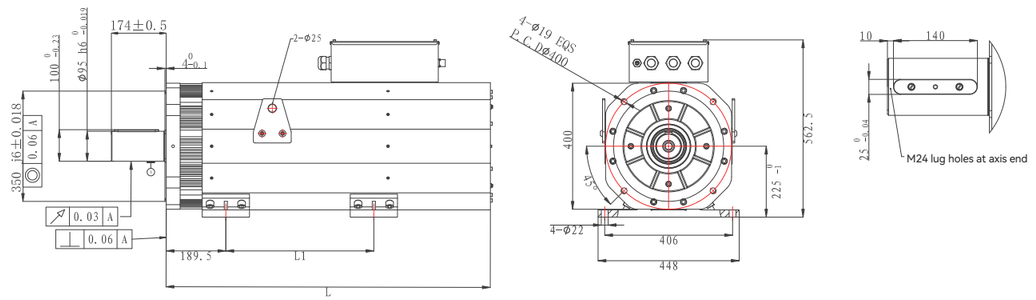
Motor model	Rated torque	Rated speed	Rated frequency	Rated current	Rated power	KT	Back emf	Power level	Max. torque	Rotor inertia	Length (mm)		Mass
	N·m	RPM	Hz	A	kW		V	V	N·m	kg·cm²	L	L1	Kg
SM25475F15DR	475	1500	100	125.3	74.6	3.8	344	380	990	755.5	684.5	405	163.50
SM25475F17DR	475	1700	113.3	148.4	84.6	3.2	330	380	990	755.5	684.5	405	163.50
SM25475F20DR	475	2000	133.3	181.3	99.5	2.6	318	380	990	755.5	684.5	405	163.50
SM25530F15DR	530	1500	100	136.6	83.2	3.9	352	380	1100	833.2	719.5	440	175.00
SM25530F17DR	530	1700	113.3	163.6	94.3	3.2	333	380	1100	833.2	719.5	440	175.00
SM25530F20DR	530	2000	133.3	182.1	111.0	2.9	352	380	1100	833.2	719.5	440	175.00
SM25583F15DR	583	1500	100	163.8	91.6	3.6	323	380	1210	910.9	754.5	475	186.50
SM25583F17DR	583	1700	113.3	182.2	103.8	3.2	329	380	1210	910.9	754.5	475	186.50
SM25583F20DR	583	2000	133.3	204.6	122.1	2.9	344	380	1210	910.9	754.5	475	186.50
SM25636F15DR	636	1500	100	163.9	99.9	3.9	352	380	1320	988.6	789.5	510	198.00
SM25636F17DR	636	1700	113.3	204.5	113.2	3.1	320	380	1320	988.6	789.5	510	198.00
SM25636F20DR	636	2000	133.3	233.8	133.2	2.7	329	380	1320	988.6	789.5	510	198.00

SM35 Series Air Cooling



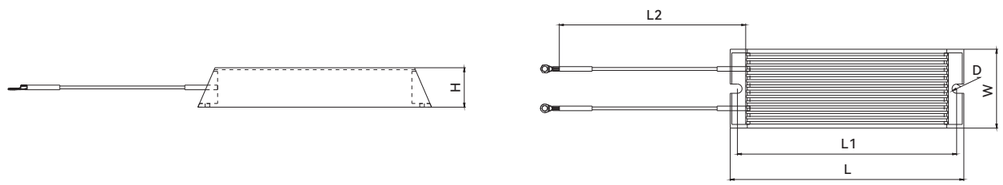
Motor model	Rated torque	Rated speed	Rated frequency	Rated current	Rated power	KT	Back emf	Power level	Max. torque	Rotor inertia	Length (mm)		Mass
	N·m	RPM	Hz	A	kW		V	V	N·m	kg·cm²	L	L1	Kg
SM35750F10DR	750	1000	100	139.0	78.5	5.4	342	380	1875	2002	829.5	270	346.50
SM35750F15DR	750	1500	150	208.0	117.8	3.6	342	380	1875	2002	829.5	270	346.50
SM35750F17DR	750	1700	170	229.0	133.5	3.3	355	380	1875	2002	829.5	270	346.50
SM35900F10DR	900	1000	100	167.0	94.2	5.4	342	380	2250	2394	879.5	320	375.00
SM35900F15DR	900	1500	150	250.0	141.3	3.6	342	380	2250	2394	879.5	320	375.00
SM35900F17DR	900	1700	170	278.0	160.1	3.3	349	380	2250	2394	879.5	320	375.00
SM351050F10DR	1050	1000	100	193.0	109.9	5.5	346	380	2625	2786	929.5	370	403.50
SM351050F15DR	1050	1500	150	280.0	164.9	3.8	360	380	2625	2786	929.5	370	403.50
SM351050F17DR	1050	1700	170	314.0	186.8	3.4	357	380	2625	2786	929.5	370	403.50
SM351200F10DR	1200	1000	100	209.0	125.6	5.7	365	380	3000	3178	979.5	420	432.00
SM351200F15DR	1200	1500	150	313.0	188.4	3.8	365	380	3000	3178	979.5	420	432.00
SM351200F17DR	1200	1700	170	360.0	213.5	3.4	362	380	3000	3178	979.5	420	432.00

SM35 Series Air Cooling



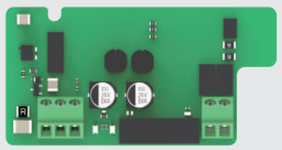
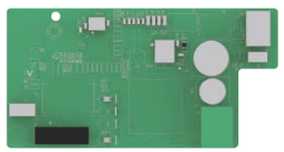
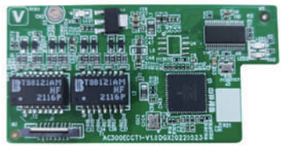
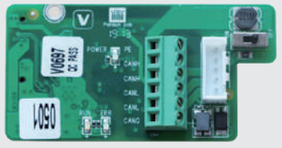
Motor model	Rated torque	Rated speed	Rated frequency	Rated current	Rated power	KT	Back emf	Power level	Max. torque	Rotor inertia	Length (mm)		Mass
	N·m	RPM	Hz	A	kW		V	V	N·m	kg·cm²	L	L1	Kg
SM351350F10DR	1350	1000	100	250.0	141.3	5.4	342	380	3375	3570	1029.5	520	460.50
SM351350F15DR	1350	1500	150	300.0	212.0	3.8	360	380	3375	3570	1029.5	520	460.50
SM351350F17DR	1350	1700	170	417.0	240.2	3.3	349	380	3375	3570	1029.5	520	460.50

Braking Resistor



Model	Dimensions					
	L	L1	L2	H	W	Hole position
RXLG-0800W40RJ-335MM	335	318	1000	30	60	6.5
RXLG-1000W30RJ-335MM	335	318	1000	30	60	6.5
RXLG-2500W15RJ-450MM	450	435	1200	60	60	6.5
RXLG-3000W10RJ-530MM	530	515	1200	60	60	6.5

Communication Expansion

Pic	Name	Model
	MODBUS-RTU	AC310IO2-A1.0
	MODBUS-TCP	AC300TCP1
	Profinet	AC300PN1
	EtherCAT	AC300EC1
	CANopen	AC300CAN1

Encoder Cable

Model Description:

EHS300-VE09-LXXX-3XNL-XX

Encoder cable series

Cable length
L030: 3m
L050: 5m
.....
L300: 30m

Drive end connector
3:9 PIN (D89) connector
X: 9PIN connector

Reserved

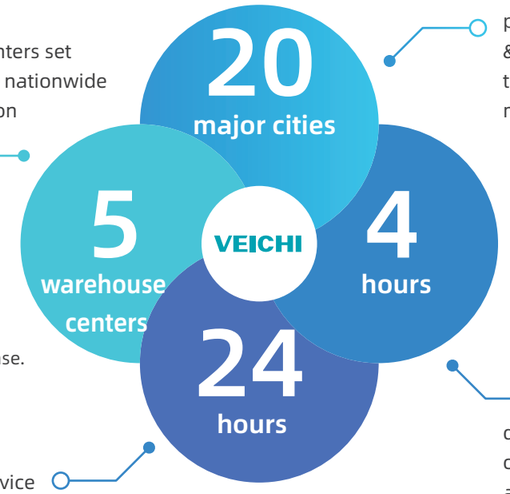
Management code

Motor end connector
B:15PIN aviation connector (angled)
F:15PIN aviation connector (standard)
R:No aviation connector

Specifications:

Model	Diagram	Length(Optional)	Application
EHS300_VE09-LXXX-3BNL		3m, 5m, 6m, 10m, 15m, 20m, 25m, 30m	For use with VEICHI SM series electro-hydraulic servo motors
EHS300_VE09-LXXX-3RNL		3m, 5m, 6m, 10m, 15m, 20m, 25m, 30m	For use in customer-defined motor-end encoder
EHS300_VE09-LXXX-XBNL		3m, 5m, 6m, 10m, 15m, 20m, 25m, 30m	For use with EtherCAT and PN communication expansions
EHS300_VE09-LXXX-3FNL		3m, 5m, 6m, 10m, 15m, 20m, 25m, 30m	For use with VEICHI SM series electro-hydraulic servo motors

Service and Support



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permanent business & technical service teams set in 20 major cities in China

Technology innovation-based and service first

Practice the "customer-centered" concept
Create a "five-star" service system
Grasp real-time service dynamics via network and telephone to solve customers' problem
Serve with hearts, patience and focus so that customers will buy with confidence and use with ease.

24-hour technical and after-sales service

quick response to customers' needs and a specific solution promised within 4 hours

01 **Pre-sales**
technology promotion, site survey, proposal design, energy saving assessment

02 **During-sales**
customization, design consultation, installation and commissioning, on-site training

03 **After-sales**
regular return visits, regular maintenance, timely repairs, application instruction