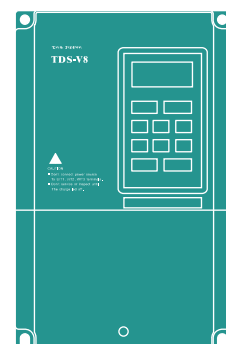


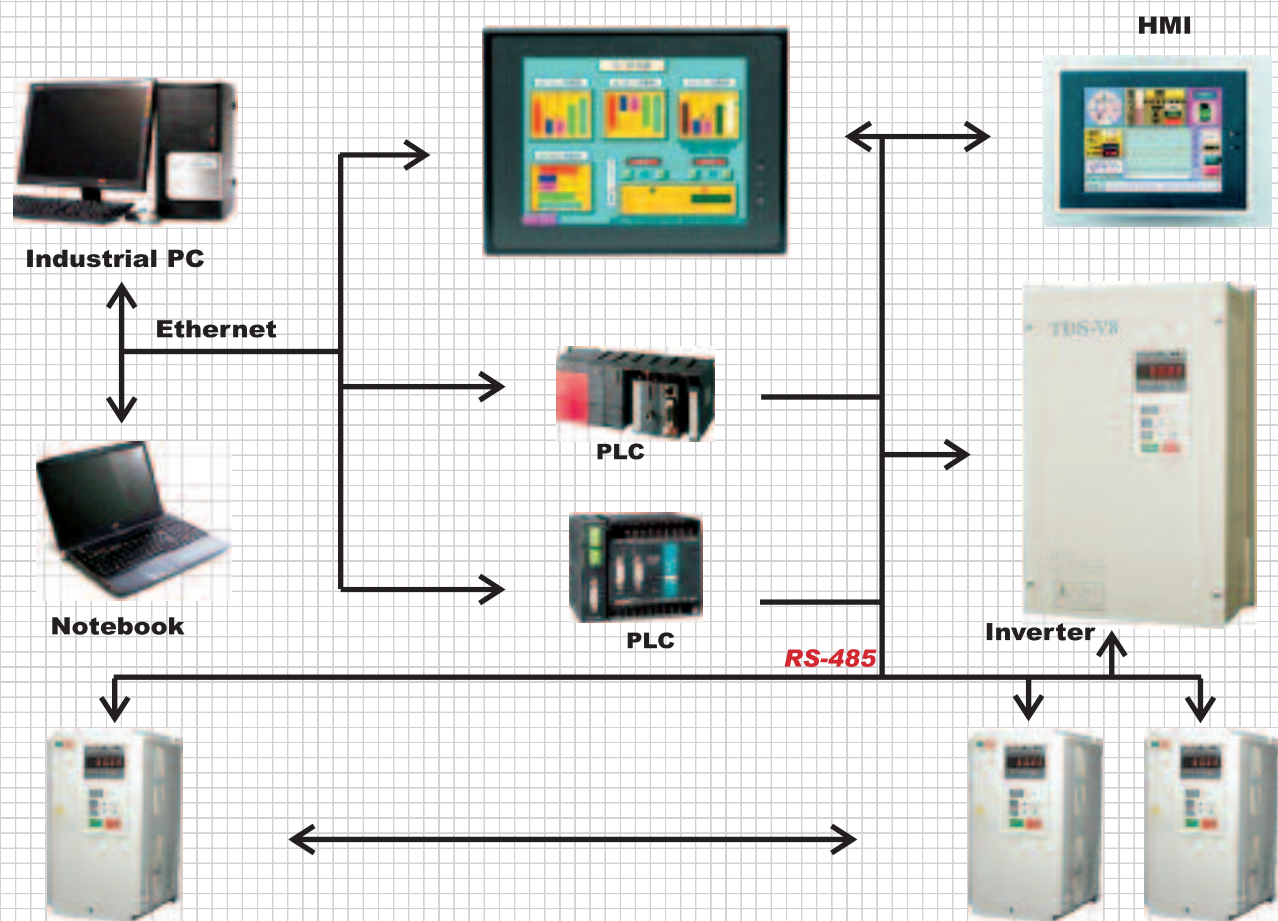
Tek



AC MOTOR **Drive**



■ **Modbus RS-485 can control at most 31 inverters at the same time.**



TDS-V8

3-Phase
AC 220 V

High Performance

AC 440 V

Wide Applications

Capacity(KW) 0.4 0.75 1.5 2.2 3.7 5.5 7.5 11 15 18.5 22 30 37 45 55 75 90 110 132 160

TDS-F8

Single-Phase
AC 220 V

3-Phase
AC 220 V

Capacity(KW) 0.4 0.75 1.5

Easy for Operation
Cost Efficiency
Powerful

Peripherals:
Extension cable wire
LED operator
LCD operator (TDS-V8 only)
Brake unit
EMC compliant filter
Ferrite ring

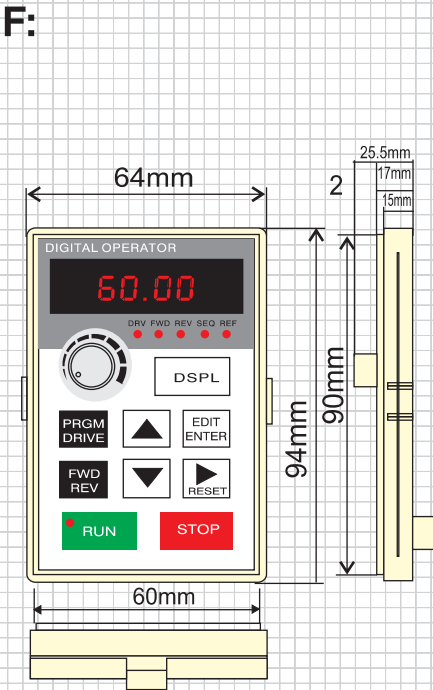
■ Inverter model number

TDS-V8-L OP7 E

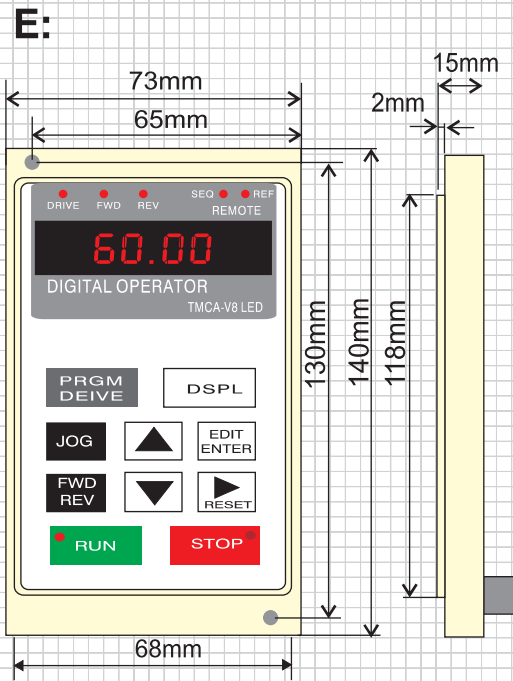
TDS-V8
TekDrive Inverter series

Rated Voltage
L:220V, 60Hz(200V, 50Hz)
H:440V, 60Hz(400V, 50Hz)
Max. Applicable Motor Output(KW)

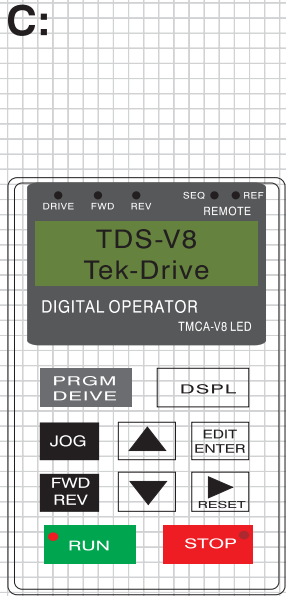
Operator Types
C:LCD operator
E:LED operator
F:LED with VR



Standard for 3.7KW & below



Standard for 5.5KW & above



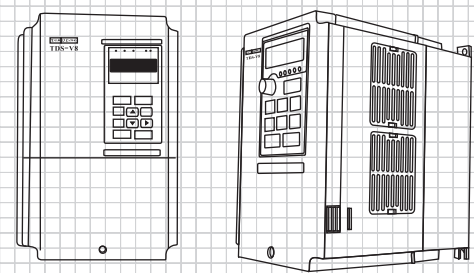
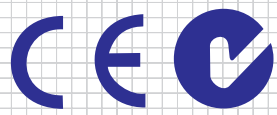
Optional LCD
The same size as
LED Operator

■ TDS Series

Series	Model	Capacity	Feature
F8	Economical	1Ø 220V: 0.4~1.5kW 3Ø 220V: 0.4~1.5kW	
V8	Standard	3Ø 220V: 0.75~75kW 3Ø 440V: 0.75~160kW	

TDS-V8 Series

(Sensorless Vector Control)



Feature

- ◆ **Sensorless Vector control with auto tuning system.**
 - The Autotune feature can be used to identify and store the important motor parameters for the sensorless Vector Control Mode.
- ◆ **Standard LED operator.**
 - Dialogic LCD operator (English/Chinese) with the function of parameters copying is optional.
- ◆ **Communication function:RS-485 installed (MODBUS protocol).**
- ◆ **Frequency control ranges from 0.1 Hz to 400Hz with resolution of 0.01Hz.**
 - frequency setting signal DC:0~10V / 4~20mA
- ◆ **Two set of analogical output interface. Each provides 11 individual analogical signals setting.**
- ◆ **PID Control, Simple PLC function, Energy saving, Multiple Frequency Pulse Output.**
- ◆ **Auto torque boost, slip compensation.**

Control Characteristics

Operation Mode	LED operator or LCD operator
Control Mode	Sine PWM
Frequency Control Ranges	0.1Hz~400Hz
Frequency Accuracy	Digital Command:±0.01%(-10~+40°C), Analog Command:±0.1% (25°C~±10°C)
Frequency Command Resolution	Digital Command:0.01Hz, Analog Command:0.06Hz/60Hz
Frequency Output Resolution	0.01Hz
Overload Resistibility	150% Rated Current for 1 Minute (CT)
Frequency Setting Signal	DC 0~10V/4 ~ 20mA
Acc./Dec. Time	0.1~6000.0 Sec. (Accel/Decel Time Can be Set Independent)
Voltage-Frequency Characteristics	V/F Curve Can be Set Through Parameter Setting (15 Types Fixed, 1 Type Flexible)
Regeneration Torque	100%, 2%ED, 5 Seconds
Basic Control Function	Auto torque Boost, Slip Compensation, Restart After Momentary Power Loss, Energy Saving, PID Control, Simple PLC function, Sersorless Vector Control
Extra Function	Up/Down Operation, Cumulative Power on & Operation Hour Memory, 4 Different Sets of Fault Status Record(Including Latest one), RS-485 (MODBUS Protocol), Multiple-Pulse Output Port, 2 Analog Output Ports etc.

Protection Function

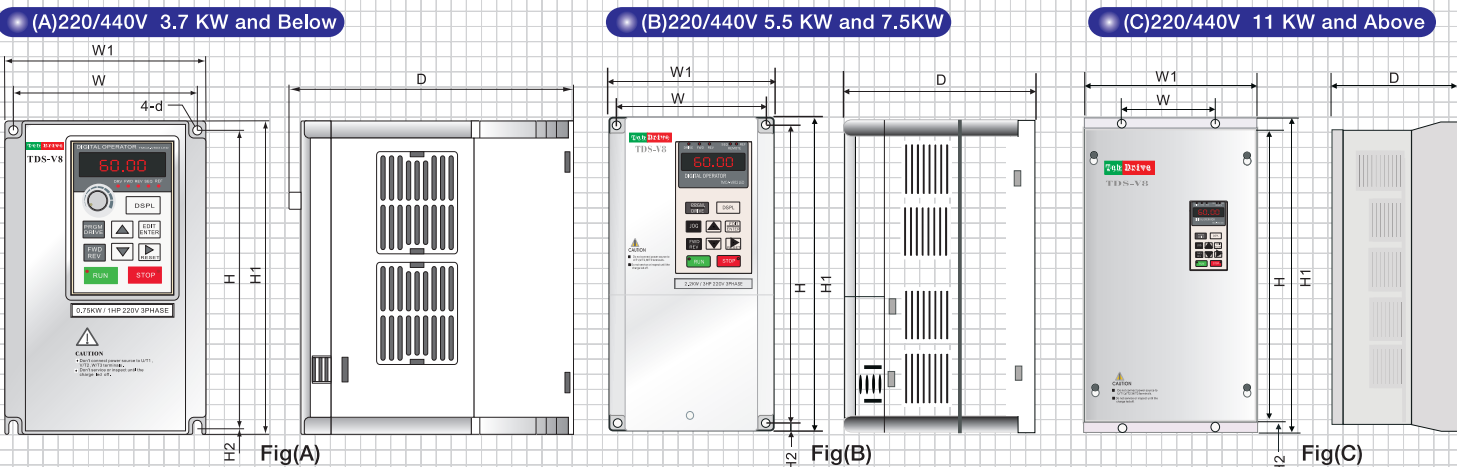
Stall Prevention	Current Level Can be Selected During Acceleration and Constant Speed Running. During Deceleration, Stall Prevention Can be Enabled or Disabled.
Instantaneous overcurrent (OC)	Stopped if above 200% Rated Current
Inverter Overload Protection (OL2)	Stopped if above 150% Rated Current for 1 Minute
Motor OverloadProtection (OL1)	Electronic Overload Curve Protection
Overvoltage (OV)	Stop if VDC ≥ 410V(220 Class) or VDC ≥ 820V (440 Class)
Undervoltage (UV)	Stop if VDC ≤ 200V(220 Class) or VDC ≤ 400V (440 Class)
Momentary Power Loss Ride-Though time	≥ 15ms, stop otherwise
Overheat Protection (OH)	Protection by Thermistor
Grounding Protection (GF)	Protection by DC Current Sensor

TDS-V8 Specification

Input Voltage class		220VClass 3-Phase														
Model		0P7	1P5	2P2	3P7	5P5	7P5	011	015	018	022	030	037	045	055	075
Max Applicable Motor HP		1	2	3	5	7.5	10	15	20	25	30	40	50	60	75	100
(CT)* kw		0.75	1.5	2.2	3.7	5.5	7.5	11	15	18.5	22	30	37	45	55	75
Output Power	Rated Output Capacity (kVA)	2	2.7	4	7.5	10.1	13.7	20.6	27.4	34	41	54	68	78	95	128
	Rated Output Current (A)*	4.8	6.4	9.6	17.5	24	32	48	64	80	96	130	160	183	224	300
	Max. Output Voltage (V)	3-Phase 200V~230VAC(Proportional to input voltage)														
	Max. Output Frequency(Hz)	Through parameter setting (Max. 400Hz)														
Power Source	Rated Voltage Frequency	3-Phase 200V~230V, 50/60Hz														
	Allowable Voltage Fluctuation	-15%~+10%														
	Allowable Frequency Fluctuation	±5%														
Medchancial Construction		Enclosed, Wall-Mounted Type(NEMA-1) IP20											IP00			
	Cooling	Self		Forced												
Approx mass(kg)		2.2		2.8		5.5		13.1		24.5		47		69		73

Input Voltage class		440V Class 3-Phase																		
Model		0P7	1P5	2P2	3P7	5P5	7P5	011	015	018	022	030	037	045	055	075	090	110	132	160
Max Applicable Motor HP		1	2	3	5	7.5	10	15	20	25	30	40	50	60	75	100	125	150	175	215
(CT)* kw		0.75	1.5	2.2	3.7	5.5	7.5	11	15	18.5	22	30	37	45	55	75	90	110	132	160
Output Power	Rated Output Capacity (kVA)	2.1	2.7	4	7.5	10.1	13.7	20.6	27.4	34	41	54	68	82	110	138	180	195	210	260
	Rated Output Current (A)*	2.6	4.0	4.8	8	12	16	24	32	40	48	64	80	96	128	165	192	224	270	300
	Max. Output Voltage (V)	3-Phase 380V~460VAC(Proportional to input voltage)																		
	Max. Output Frequency(Hz)	Through parameter setting (Max. 400Hz)																		
Power Source	Rated Voltage Frequency	3-Phase 380V~460V, 50/60Hz																		
	Allowable Voltage Fluctuation	-15%~+10%																		
	Allowable Frequency Fluctuation	±5%																		
Medchemical Construction		Enclosed, Wall-Mounted Type(NEMA-1) IP20													IP00					
Cooling		Self			Forced															
Approx mass(kg)		2.2		2.8		5.5		13.1		24.5				50		69		73		

Dimensions



Voltage	Application Motor	Mounting Dimension (mm)				External Dimension (mm)			Fig
	Output(HP) / KW	W	H1	H2	d	W1	H1	D	
220V/ 440V	1HP / 0.75KW	108	173	5.5	5	118	184	168	Fig(A)
	2HP / 1.5KW								
	3HP / 2.2KW								
	5HP / 3.7KW	124	214	5.5	6	137.5	225	161	Fig(B)
	7.5HP / 5.5KW								
	10HP / 7.5KW	174	281	8	8	191	297	197	
	15HP / 11KW	140	394	8	8	244	410	202	Fig(C)
	20HP / 15KW								
	25HP / 18.5KW								
	30HP / 22KW								
40HP / 30KW									
440V	50HP / 37KW	170	479	12.5	10	287	504	273	
	60HP / 45KW								
220V	50HP / 37KW	250	709	12.5	12	376	734	280	
	60HP / 45KW								
440V	75HP / 37KW								
	100HP / 75KW								
	125HP / 90KW								
220V	75HP / 55KW	430	843	13	15	533	870	280	
	100HP / 75KW								
440V	100HP / 110KW								
	175HP / 132KW								
	215HP / 160KW								

*Tek-Drive reserves the rights of changing the spec. For bigger capacity, please contact with Tek-Drive

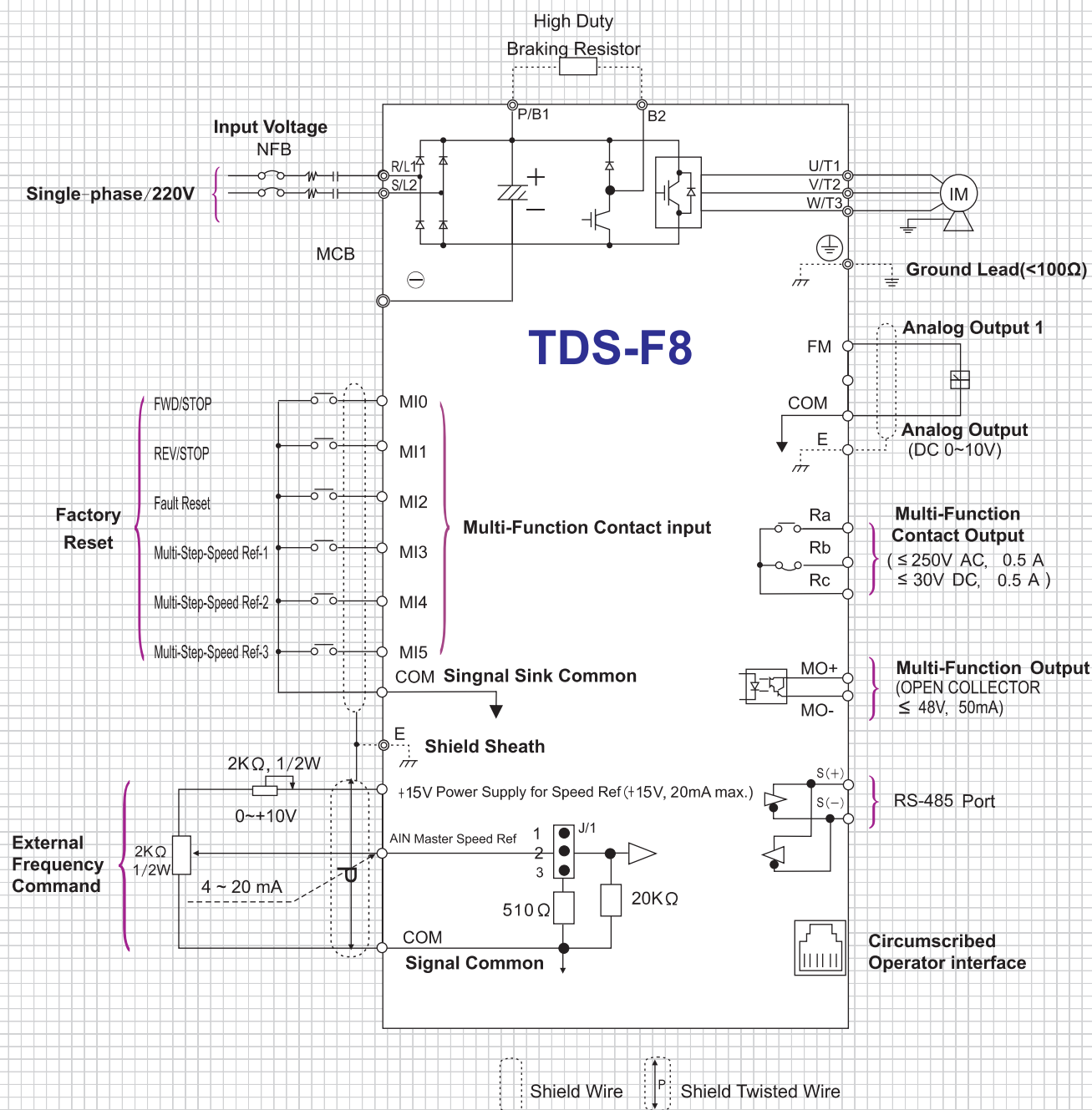
TDS-F8 Series

Wide Applications High Performance

Feature

- ◆ PWM control
- ◆ Built-in MODBUS RS-485
- ◆ Built-in PID Function
- ◆ 3 skip-Frequency setting
- ◆ 2 ACC/DEC Time S curve setting
- ◆ Simple PLC function remote control
- ◆ Pump control automatic energy saving
- ◆ Pressure setting & constant pressure control.

Basic Connection Diagram

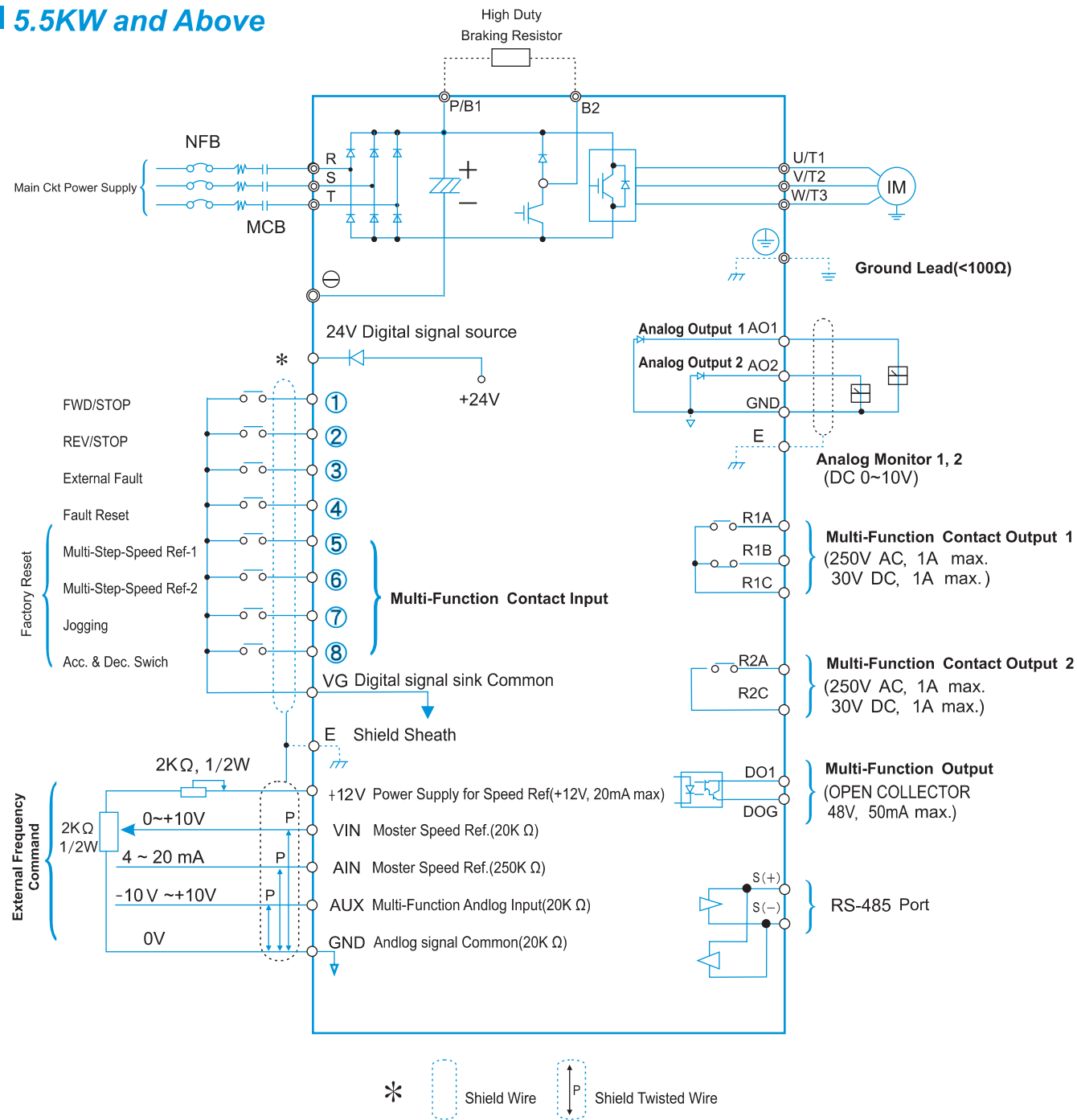


Inverter Standard Connection Diagram (⊙ indicates the main circuit terminals and the sign, ○ Indicates control circuit terminals)

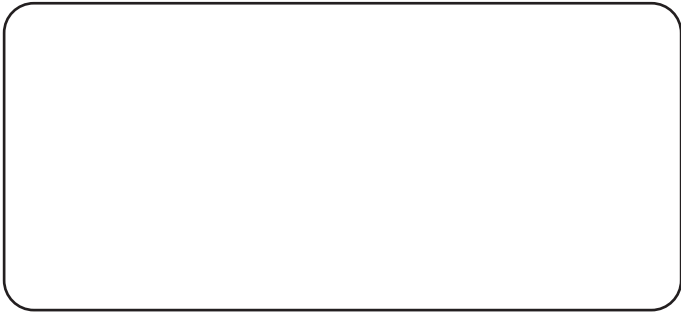
TDS-V8 Inverter Standard Connection Diagram

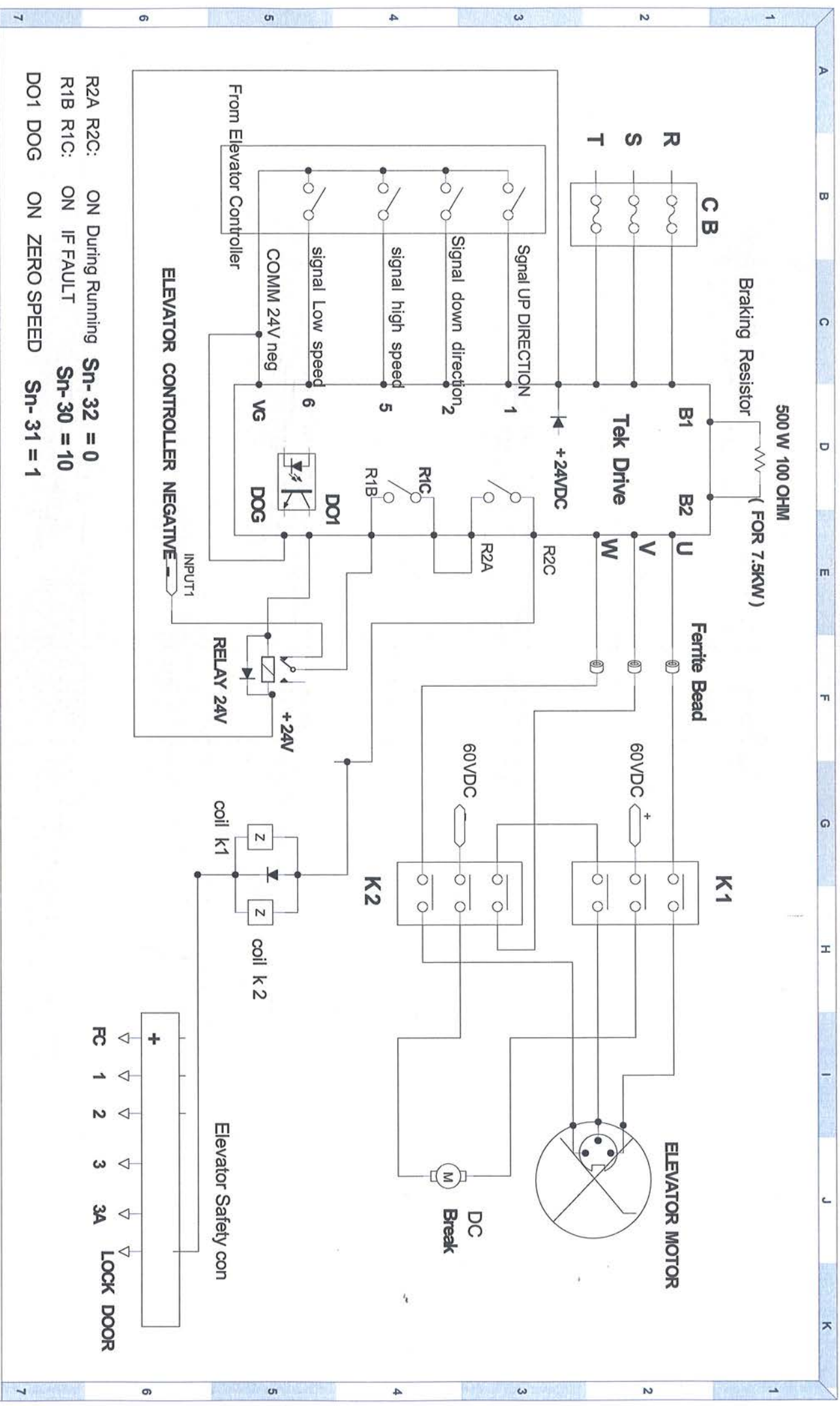
(⊙ indicates the main circuit terminals and the sign, ○ indicates control circuit terminals)。

5.5KW and Above



1	2	3	4	5	6	7	8	AO1	GND	DO1	S(+)	R1A	R1B	R1C	R2A	R2C
E	24V	VG	+12V	AIN	VIN	AUX	AO2	GND	DOG	E	S(-)					





SABMATIC TEK Drive connection with elevator controller 2 speed