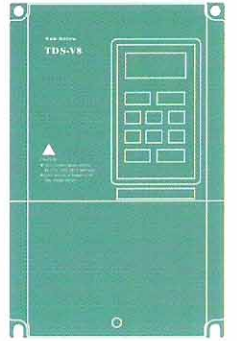


Tek Drive

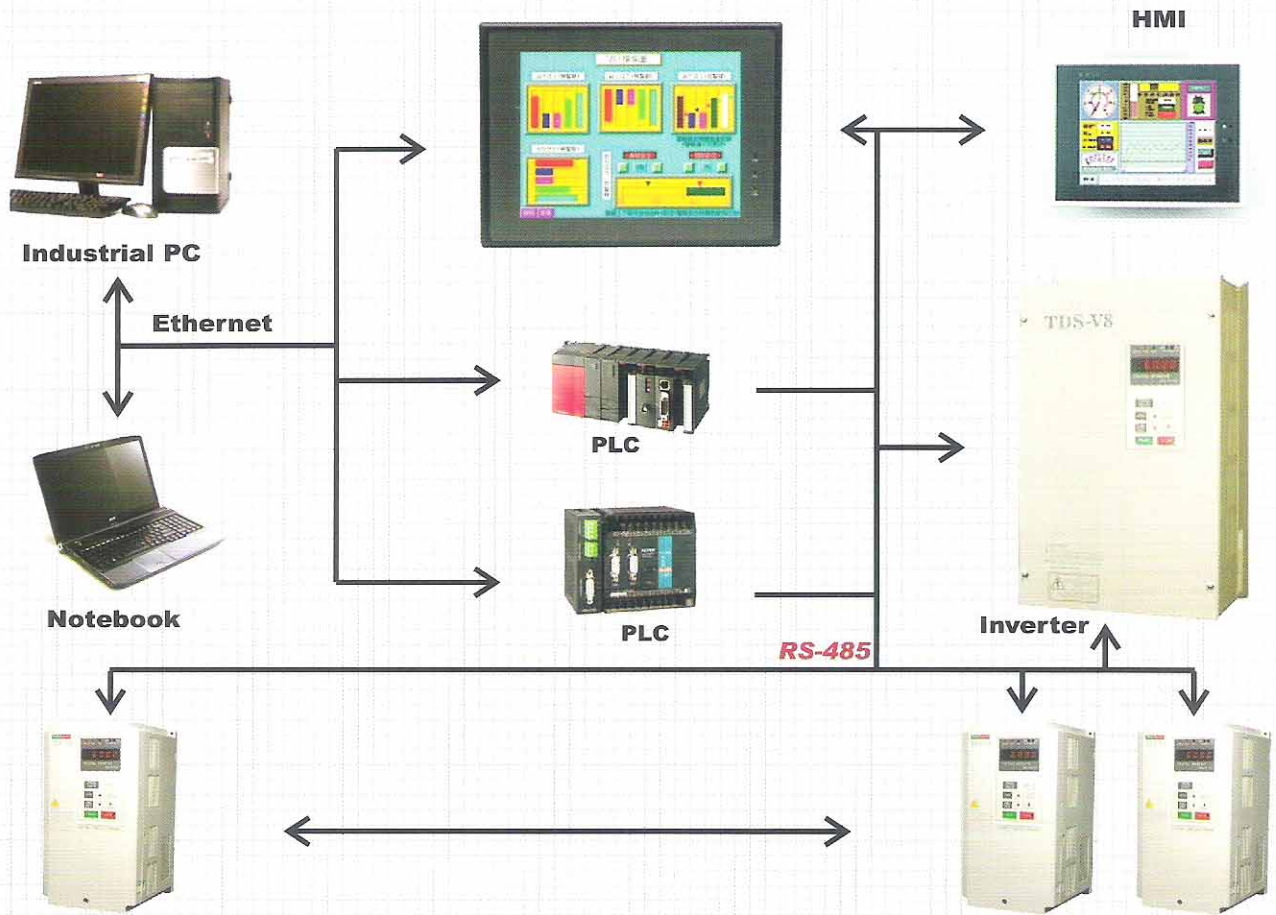


Tek

AC MOTOR **Drive**

CE

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-LOP7E

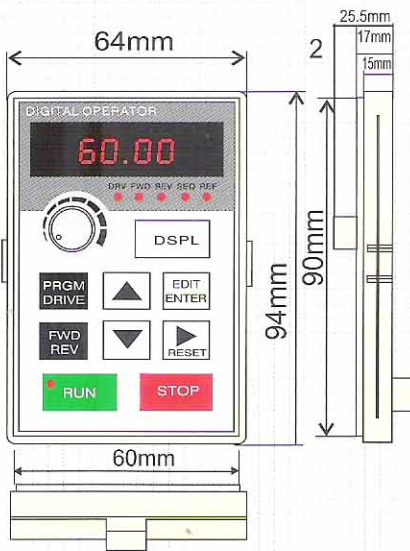
TDS-V8
TekDrive Inverter series

Rated Voltage
L:220V, 60Hz(200V, 50Hz)
H:440V, 60Hz(400V, 50Hz)

Max. Applicable Motor Output(KW)

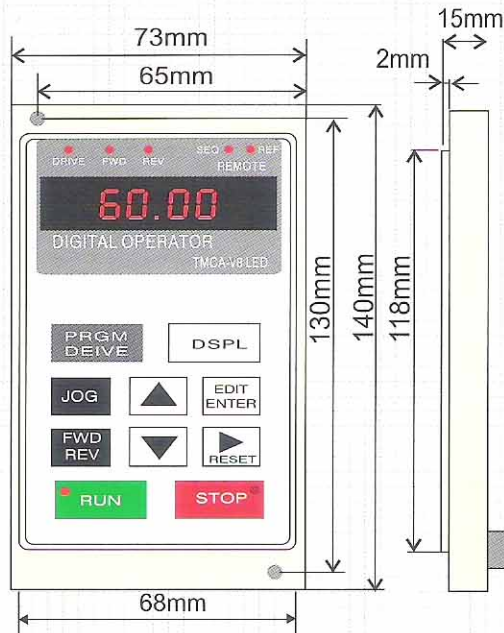
Operator Types
C:LCD operator
E:LED operator
F:LED with VR

F:



Standard for 3.7KW & below

E:



Standard for 5.5KW & above

C:



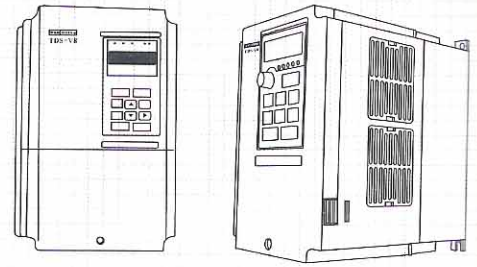
Optional LCD
The same size as
LED Operator

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, Sensorless 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	≥ 15ms, stop otherwise
Loss Ride-Though time	
Overheat Protection (OH)	Protection by Thermistor
Grounding Protection (GF)	Protection by DC Current Sensor

TDS-V8 Specification

Input Voltage class		220V Class 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%															
Mechanical 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	

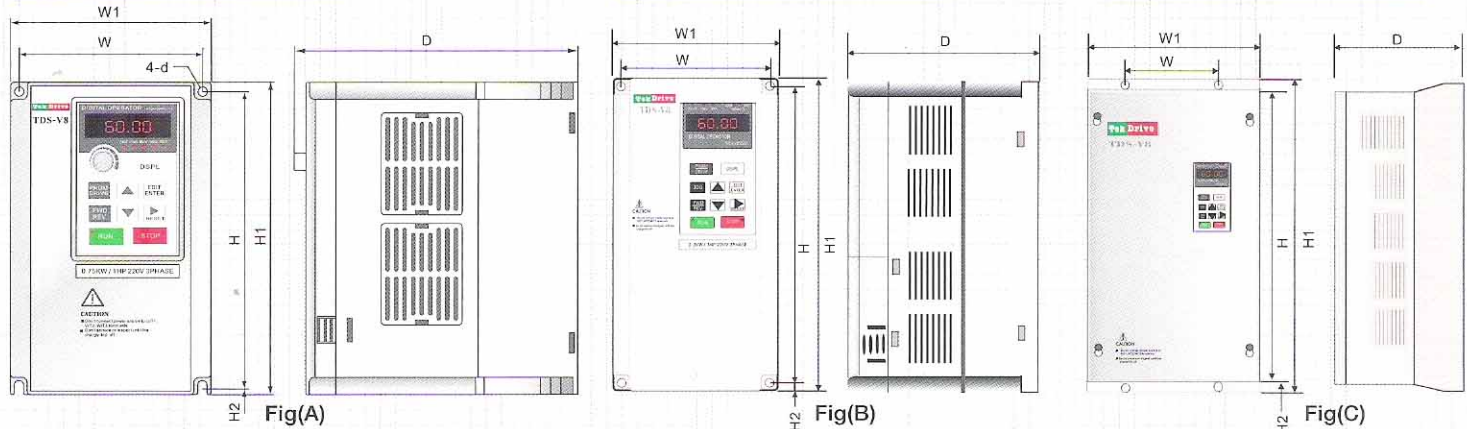
Input Voltage class		440V Class 3-Phase																		
Model		0P7	1P5	2P2	3P7	5P5	7P5	011	015	018	022	030	037	045	055	075	090	110	132	160
Max Applicable Motor HP		1	2	3	5	7.5	10	15	20	25	30	40	50	60	75	100	125	150	175	215
(CT)* kw		0.75	1.5	2.2	3.7	5.5	7.5	11	15	18.5	22	30	37	45	55	75	90	110	132	160
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%																		
Mechanical 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

(A)220/440V 3.7 KW and Below

(B)220/440V 5.5 KW and 7.5KW

(C)220/440V 11 KW and Above



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

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

■ Description of Inverter model number

TDS-F8-L OP7 E3

TDS-F8
TekDrive Inverter series

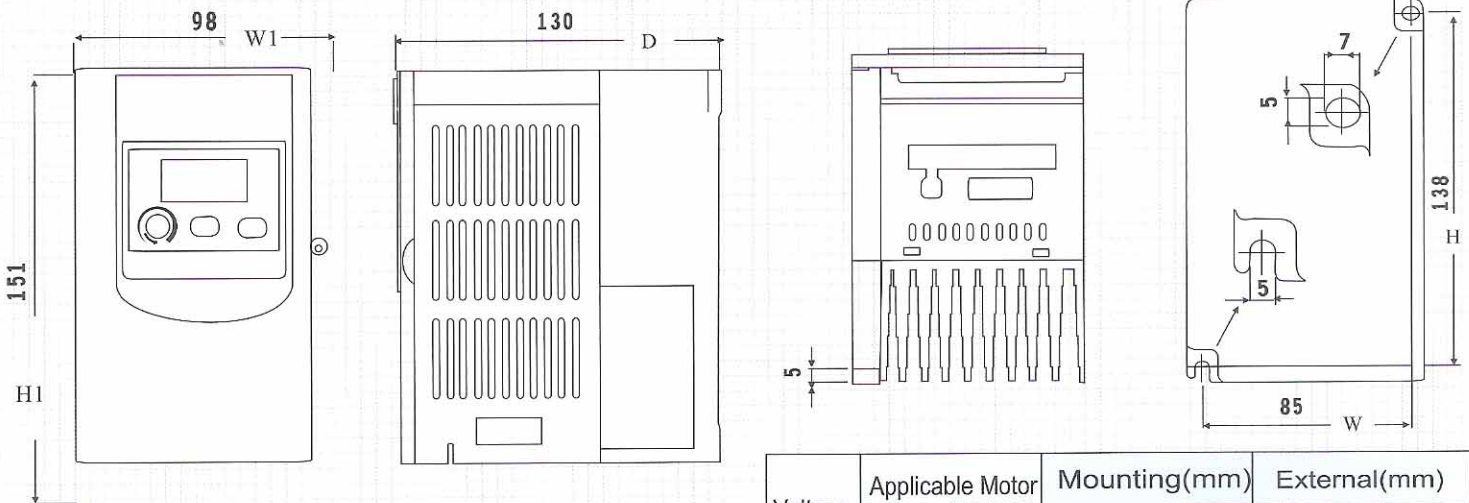
Inverter Output Capacity (KW)
OP4: 0.4 KW
OP7: 0.75 KW
1P5: 1.5 KW

blank: single phase
3:3 phase



Input Voltage class		220V Single phase / 3-Phase		
Model		TDS-F8-L		
		OP4	OP7	1P5
Max Applicable Motor (CT)*	HP	1/2	1	2
	kw	0.4	0.75	1.5
Output Power	Rated Output Capacity (kVA)	1.4	2	2.7
	Rated Output Current (A)*	3.2	4.8	6.4
	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	Single Phase 200V~230V, 50/60Hz		
	Allowable Voltage Fluctuation	-15%~+10%		
	Allowable Frequency Fluctuation	±5%		
Mechanical Construction		Enclosed, Wall-Mounted Type(NEMA-1) IP20		
Cooling		Self	Forced	
Weight(kg)		1.2		
Control Characteristics	Operation Mode	LED operator		
	Control Mode	Sine PW/M		
	Frequency Control Ranges	0.1 Hz~400 Hz		
	Frequency Accuracy	Digital Command:±0.01%(-10~+40°C), Analog Command:±1% (25°C~±10°C)		
	Frequency Command Resolution	Digital Command:0.01Hz, Analog Command:0.06Hz/60Hz		
	Frequency Output Resolution	0.1Hz		
	Frequency Setting Signal	DC 0~10V/4 ~ 20mA		
	Acc./Dec. Time	0~999.9 Sec. (Accel/Decel Time Can be Set Individually)		
	Voltage-Frequency Characteristics	V/F Curve Can be Set Through Parameter Setting		
	Basic Control Function	Auto torque Boost, Slip Compensation, Restart After Momentary Power Loss, Energy Saving, PID Control, Simple PLC function		
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 Ports, 1 Analog Output.			

Dimension



Voltage	Applicable Motor Output (HP/KW)	Mounting(mm)			External(mm)		
		W	H	D	W1	H1	D
220V 1ø/3ø	0.5HP/0.4KW	85	138	130	98	151	130
	1HP/0.75KW						
	2HP/1.5KW						

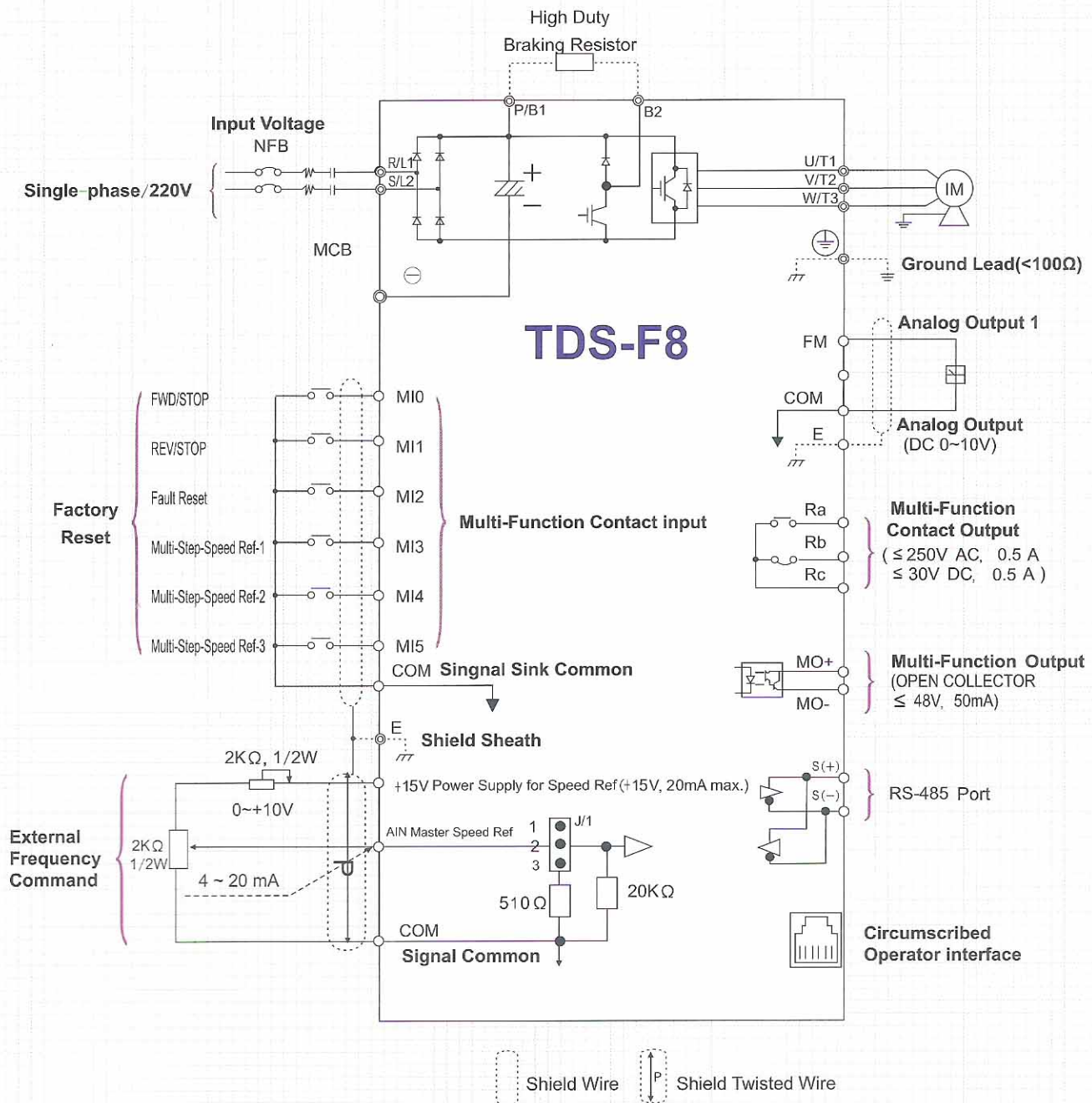
TDS-F8 Series

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.

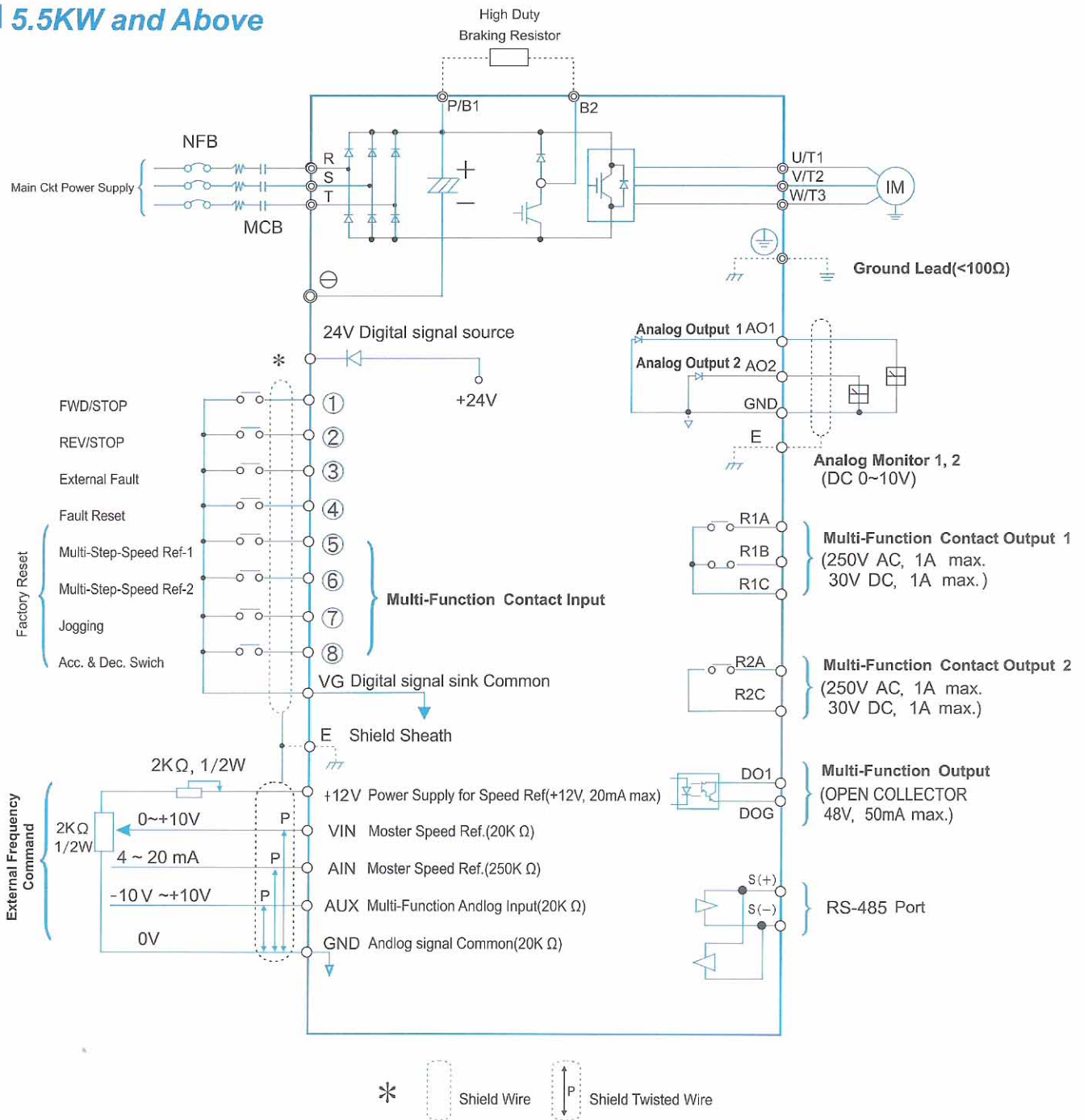
Basic Connection Diagram



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(-)					



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