



PRODUCT PORTFOLIO

Variable Frequency Drives

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GENERAL SPECIFICATIONS

RENHOTEV EV variable frequency drives (VFDs) provide precise speed and torque control for three-phase induction motors across industrial, commercial and renewable applications. Built on a unified control platform, the full range shares the same protection architecture, communication options and rugged design philosophy.

Why choose RENHOTEV VFDs — stable low-frequency torque, built-in PID, multiple fieldbus options, and comprehensive motor protection in a compact, easy-to-commission package.

Control & Performance

Control Mode	V/F, Sensorless Vector (SVC), Closed-loop Vector (FVC)
Starting Torque	150% at 0.5 Hz (SVC)
Overload Capacity	150% rated current for 60 s
Carrier Frequency	1 – 16 kHz adjustable

Communication & Protection

Fieldbus	Modbus-RTU, ProfiBus-DP, CANlink, CANopen
Protection	Over-voltage, over-current, over-heat, short-circuit, stall, phase-loss

Enclosure Rating	IP20
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Operating Environment

Ambient Temperature	-10 °C to +40 °C
Cooling	Forced-air (built-in fan)

Typical Applications

Applications	Motors, pumps, fans, compressors, conveyors, HVAC, solar pumping
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SECTION 01 ECONOMIC VFD

Space-saving micro drives (0.75–4kW) for OEM packaging lines, conveyors and compact automation.



Model	Power (kW)	Horsepower (HP)	Rated Current (A)	Input Voltage	Output Voltage	Dimensions (mm)	Weight (kg)
RHT-VF01-96M-1T-00075	0.75	1	4	1-Ph220V	3-Ph220V	82*125*135	1.2
RHT-VF01-96M-1T-00150	1.5	2	7	1-Ph220V	3-Ph220V	82*125*135	1.2
RHT-VF01-96M-1T-00220	2.2	3	10	1-Ph220V	3-Ph220V	82*125*135	1.2
RHT-VF01-96M-3T-00075	0.75	1	2.5	3-Ph380V	3-Ph380V	82*125*135	1.2
RHT-VF01-96M-3T-00150	1.5	2	3.7	3-Ph380V	3-Ph380V	82*125*135	1.2
RHT-VF01-96M-3T-00220	2.2	3	5	3-Ph380V	3-Ph380V	82*125*135	1.2
RHT-VF01-96M-3T-00400	4	5	16	3-Ph380V	3-Ph380V	130*160*170	1.2

SECTION 02 GENERAL PURPOSE VFD

Heavy-duty vector drives (4–220kW), 150% starting torque, for extruders, industrial pumps and fans.



Model	Power (kW)	Horsepower (HP)	Rated Current (A)	Input Voltage	Output Voltage	Dimensions (mm)	Weight (kg)
RHT-VF01-96G-1T-00400	4	5	16	1-Ph220V	3-Ph220V	130*160*170	1.7
RHT-VF01-96G-1T-00550	5.5	7.5	20	1-Ph220V	3-Ph220V	152*179*220	3.2
RHT-VF01-96G-1T-00750	7.5	10	30	1-Ph220V	3-Ph220V	152*179*220	3.2
RHT-VF01-96G-1T-01100	11	15	42	1-Ph220V	3-Ph220V	220*210*320	7
RHT-VF01-96G-3T-00400	4	5	8.5	3-Ph380V	3-Ph380V	82*125*135	1.2
RHT-VF01-96G-3T-00550	5.5	7.5	13	3-Ph380V	3-Ph380V	130*160*170	1.7
RHT-VF01-96G-3T-00750	7.5	10	16	3-Ph380V	3-Ph380V	130*160*170	1.7
RHT-VF01-96G-3T-01100	11	15	25	3-Ph380V	3-Ph380V	152*179*220	3.2
RHT-VF01-96G-3T-01500	15	20	32	3-Ph380V	3-Ph380V	160*185*247	3.8
RHT-VF01-96G-3T-01850	18.5	25	38	3-Ph380V	3-Ph380V	220*210*320	7
RHT-VF01-96G-3T-02200	22	30	45	3-Ph380V	3-Ph380V	220*210*320	7
RHT-VF01-96G-3T-03000	30	40	60	3-Ph380V	3-Ph380V	220*210*320	7
RHT-VF01-96G-3T-03700	37	50	75	3-Ph380V	3-Ph380V	290*240*465	17
RHT-VF01-96G-3T-04500	45	60	90	3-Ph380V	3-Ph380V	290*240*465	17
RHT-VF01-96G-3T-05500	55	75	110	3-Ph380V	3-Ph380V	290*240*465	17
RHT-VF01-96G-3T-07500	75	100	150	3-Ph380V	3-Ph380V	390*350*645	40
RHT-VF01-96G-3T-09300	93	125	170	3-Ph380V	3-Ph380V	390*350*645	40
RHT-VF01-96G-3T-11000	110	150	200	3-Ph380V	3-Ph380V	390*350*645	40
RHT-VF01-96G-3T-13200	132	175	240	3-Ph380V	3-Ph380V	390*350*645	40
RHT-VF01-96G-3T-16000	160	200	290	3-Ph380V	3-Ph380V	425*365*1010	70
RHT-VF01-96G-3T-18700	187	250	340	3-Ph380V	3-Ph380V	425*365*1010	70
RHT-VF01-96G-3T-20000	200	270	360	3-Ph380V	3-Ph380V	425*365*1010	70
RHT-VF01-96G-3T-22000	220	300	420	3-Ph380V	3-Ph380V	425*365*1010	70

SECTION 03 1-PH 220V → 3-PH 380V VFD

Boost single-phase 220V utility power into balanced 3-phase 380V to run heavy machinery without grid upgrades.



Model	Power (kW)	Horsepower (HP)	Rated Current (A)	Input Voltage	Output Voltage	Dimensions (mm)	Weight (kg)
RHT-VF01-96M-1T3-00075	0.75	1	2.5	1-Ph220V	3-Ph380V	82*125*135	1.2
RHT-VF01-96M-1T3-00150	1.5	2	3.7	1-Ph220V	3-Ph380V	82*125*135	1.2
RHT-VF01-96M-1T3-00220	2.2	3	5	1-Ph220V	3-Ph380V	82*125*135	1.2
RHT-VF01-96G-1T3-00400	4	5	8.5	1-Ph220V	3-Ph380V	130*160*170	1.7
RHT-VF01-96G-1T3-00550	5.5	7.5	13	1-Ph220V	3-Ph380V	130*160*170	1.7
RHT-VF01-96G-1T3-00750	7.5	10	16	1-Ph220V	3-Ph380V	152*179*220	3.2
RHT-VF01-96G-1T3-01100	11	15	25	1-Ph220V	3-Ph380V	152*179*220	3.2
RHT-VF01-96G-1T3-01500	15	20	32	1-Ph220V	3-Ph380V	220*210*320	7
RHT-VF01-96G-1T3-01850	18.5	25	38	1-Ph220V	3-Ph380V	220*210*320	7
RHT-VF01-96G-1T3-02200	22	30	45	1-Ph220V	3-Ph380V	220*210*320	7
RHT-VF01-96G-1T3-03000	30	40	60	1-Ph220V	3-Ph380V	220*210*320	7

SECTION 04 690V HEAVY-DUTY VFD

High-voltage heavy-duty drives (18.5–630kW) to reduce cable losses in mining, petrochemical and heavy pumping.



Model	Power (kW)	Horsepower (HP)	Rated Current (A)	Input Voltage	Output Voltage	Dimensions (mm)	Weight (kg)
RHT-VF01-96G-6T-01850	18.5	25	22	3-Ph690V	3-Ph690V	290*250*465	18
RHT-VF01-96G-6T-02200	22	30	28	3-Ph690V	3-Ph690V	290*250*465	18
RHT-VF01-96G-6T-03000	30	40	35	3-Ph690V	3-Ph690V	290*250*465	18
RHT-VF01-96G-6T-03700	37	50	45	3-Ph690V	3-Ph690V	370*315*600	40
RHT-VF01-96G-6T-04500	45	60	52	3-Ph690V	3-Ph690V	370*315*600	40
RHT-VF01-96G-6T-05500	55	75	63	3-Ph690V	3-Ph690V	370*315*600	40
RHT-VF01-96G-6T-07500	75	100	86	3-Ph690V	3-Ph690V	370*315*600	40
RHT-VF01-96G-6T-09300	93	125	98	3-Ph690V	3-Ph690V	370*315*600	40
RHT-VF01-96G-6T-11000	110	150	121	3-Ph690V	3-Ph690V	430*358*800	80
RHT-VF01-96G-6T-13200	132	175	150	3-Ph690V	3-Ph690V	430*358*800	80
RHT-VF01-96G-6T-16000	160	200	175	3-Ph690V	3-Ph690V	430*358*800	80
RHT-VF01-96G-6T-18700	187	250	198	3-Ph690V	3-Ph690V	692*355*1260	100
RHT-VF01-96G-6T-20000	200	270	218	3-Ph690V	3-Ph690V	692*355*1260	100
RHT-VF01-96G-6T-22000	220	300	240	3-Ph690V	3-Ph690V	692*355*1260	100
RHT-VF01-96G-6T-25000	250	340	270	3-Ph690V	3-Ph690V	692*355*1260	100
RHT-VF01-96G-6T-31500	315	430	345	3-Ph690V	3-Ph690V	692*355*1260	100
RHT-VF01-96G-6T-37500	375	500	390	3-Ph690V	3-Ph690V	—	—
RHT-VF01-96G-6T-40000	400	540	430	3-Ph690V	3-Ph690V	—	—
RHT-VF01-96G-6T-45000	450	600	465	3-Ph690V	3-Ph690V	—	—
RHT-VF01-96G-6T-50000	500	680	550	3-Ph690V	3-Ph690V	—	—
RHT-VF01-96G-6T-56000	560	750	590	3-Ph690V	3-Ph690V	—	—
RHT-VF01-96G-6T-63000	630	850	680	3-Ph690V	3-Ph690V	—	—

SECTION 05 SOLAR PUMP INVERTER

Hybrid DC/AC solar variable speed drives with built-in MPPT for zero-emission agricultural irrigation.



Model	Power (kW)	Horsepower (HP)	Rated Current (A)	Input Voltage	Output Voltage	Dimensions (mm)	Weight (kg)
RHT-VF01-96S-1T-00075	0.75	1	4	DC200-400V or AC220V	3-Ph220V	82*125*135	1.2
RHT-VF01-96S-1T-00150	1.5	2	7	DC200-400V or AC220V	3-Ph220V	82*125*135	1.2
RHT-VF01-96S-1T-00220	2.2	3	10	DC200-400V or AC220V	3-Ph220V	82*125*135	1.2
RHT-VF01-96S-1T-00400	4	5	16	DC200-400V or AC220V	3-Ph220V	130*160*170	1.7
RHT-VF01-96S-1T-00550	5.5	7.5	20	DC200-400V or AC220V	3-Ph220V	152*179*220	3.2
RHT-VF01-96S-1T-00750	7.5	10	30	DC200-400V or AC220V	3-Ph220V	152*179*220	3.2
RHT-VF01-96S-1T-01100	11	15	42	DC200-400V or AC220V	3-Ph220V	220*210*320	7
RHT-VF01-96S-3T-00075	0.75	1	2.5	DC400-690V or AC380V	3-Ph380V	82*125*135	1.2
RHT-VF01-96S-3T-00150	1.5	2	3.7	DC400-690V or AC380V	3-Ph380V	82*125*135	1.2
RHT-VF01-96S-3T-00220	2.2	3	5	DC400-690V or AC380V	3-Ph380V	82*125*135	1.2
RHT-VF01-96S-3T-00400	4	5	8.5	DC400-690V or AC380V	3-Ph380V	82*125*135	1.7
RHT-VF01-96S-3T-00550	5.5	7.5	13	DC400-690V or AC380V	3-Ph380V	130*160*170	1.7
RHT-VF01-96S-3T-00750	7.5	10	16	DC400-690V or AC380V	3-Ph380V	152*179*220	3.2
RHT-VF01-96S-3T-01100	11	15	25	DC400-690V or AC380V	3-Ph380V	152*179*220	3.2
RHT-VF01-96S-3T-01500	15	20	32	DC400-690V or AC380V	3-Ph380V	160*185*247	3.8
RHT-VF01-96S-3T-01850	18.5	25	38	DC400-690V or AC380V	3-Ph380V	220*210*320	7
RHT-VF01-96S-3T-02200	22	30	45	DC400-690V or AC380V	3-Ph380V	220*210*320	7



Thank You

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