

KRUGER



ECOWATT®

DRIVE SERIES



Simple Installation



Cost Saving



Premium Warranty

Why KRUGER?

KRUGER has been a leading innovator and manufacturer of residential, commercial, and industrial ventilation solutions across Asia since 1985. Today, with a direct presence in over 18 regions throughout Asia, world-class R&D and manufacturing facilities, Kruger is able to offer its customers unparalleled service and support at a local level. Our customers trust Kruger to provide the best solutions for their needs.



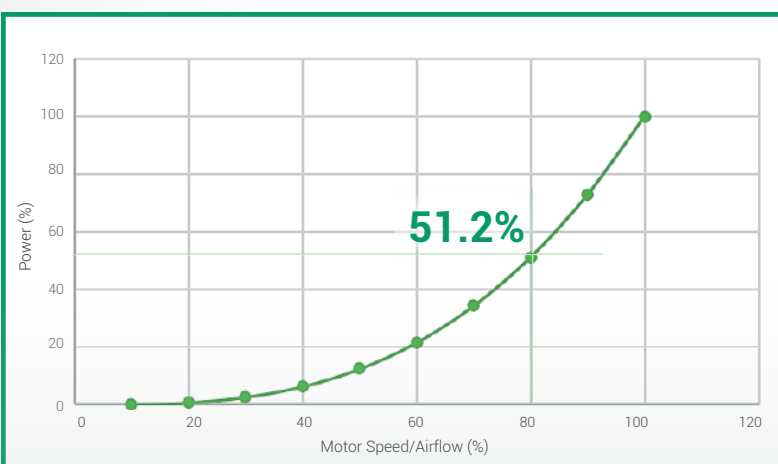
Why use a KRUGER ECOWATT® Drive for Demand Controlled Ventilation (DCV)?

In joining the global effort to combat climate change, KRUGER, a world leader in ventilation, is presenting the Demand Controlled Ventilation (DCV) system. This system enables performance control of installations by adjusting them to the real needs of ventilation.

We also adopt "ECOWATT Drives K-Series", a new high-performance variable-frequency drive (VFD) specifically designed for fan applications. The VFD comes with the latest PID function to support the DCV system, which can regulate constant or variable pressure, airflow, temperature, and humidity. This helps optimize the output voltage of the VFD to the actual load of the fan motor, thus minimizing power consumption.



As depicted below, when using a **KRUGER VFD** to reduce the fan flowrate down to **80% flow**, there is a reduction in power consumption by **51.2%**.



The ability to reduce energy usage also cuts the CO2 **EMISSIONS**

A major contributor to **CLIMATE CHANGE**



And the dramatic effects on **OUR ENVIRONMENT**

Highlights

Energy
Saving



Friendly with
Environment



Simple
Installation



Security
and Safety



Standard Models

Series	Input Voltage	Output Voltage	Output Power (kW)	Ingress Protection
K120	1PH 220V	3PH 0-220V	0.40 - 4.0kW	IP20
K154	50/60Hz	0-400Hz	0.75 - 3.7kW	IP54
K320	3PH 400V	3PH 0-400V	2.20 - 500kW	IP20
K355	50/60Hz	0-400Hz	5.50 - 110kW	IP55

Applications





Energy Saving

Auto Energy Optimization Function for Real Time Loading



Accurate Motor Autotuning

To optimize the FAN performance and efficiency, Ecowatt® Drives will automatically measure the electrical motor parameters to use in controlling algorithms when commissioning.



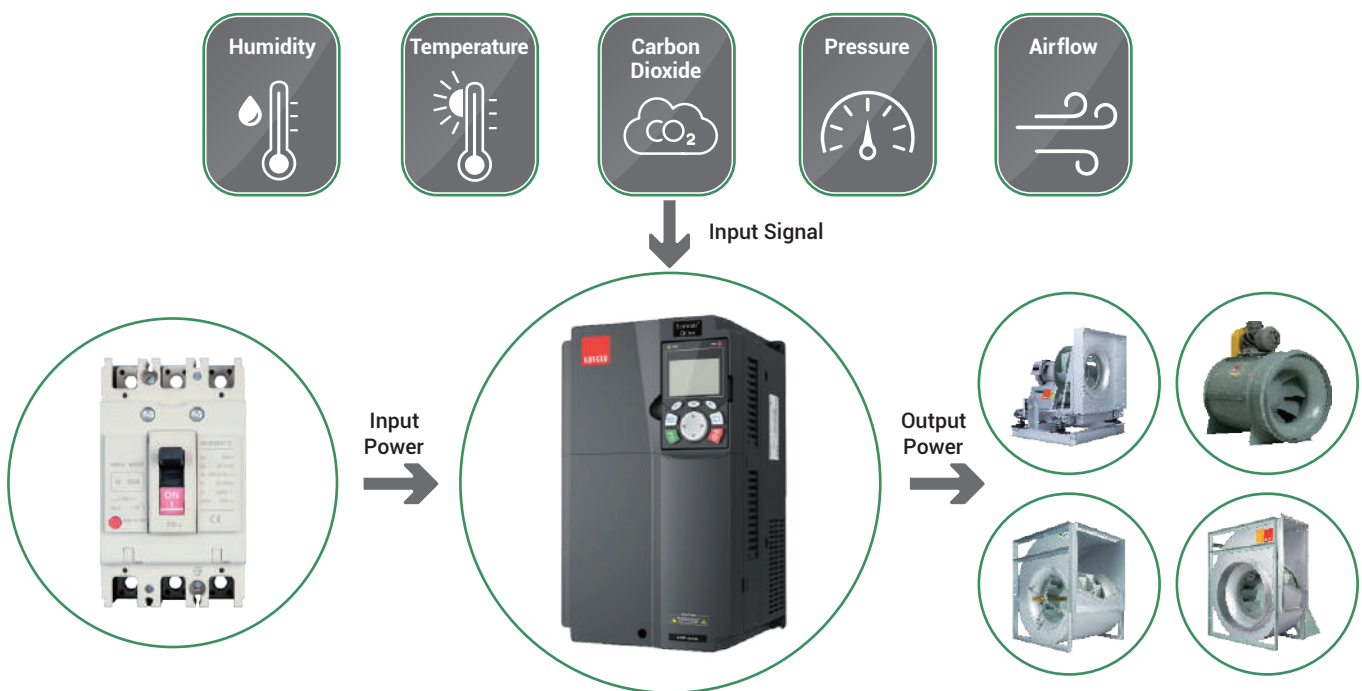
Automatic Energy-Saving Run

In light-load state, the motor can adjust the output voltage automatically to achieve energy saving.

PID Function for Demand Controlled Ventilation

PID control is mainly used to adjust the VFD output frequency or output voltage through performing scale division, integral and differential operations on the difference between feedback signal of controlled variables and signal of the target.

It is suitable for flow control, pressure control, temperature control, etc. by following Kruger Demand controlled Ventilation concept.



Simple Installation

Simple Power and Control Wiring by following the quick setting manual.

Simple Setting and Easy Monitoring via Big LCD Keypad and PC Interface Program

- ▶ Ecowatt® Drives provide a big LCD keypad with Quick parameter setting function.
- ▶ In case of needing fine tuning or copying VFD parameter, it also has the PC interface program for configuration.





Security and Safety

Safe Torque Off (STO) Function



Safe Torque Off

The STO function switches off the drive output by turning off the drive signals to prevent unexpected startups of the motor when the main power supply of the drive is not switched off.

In the even that any preventive maintenance which requires exposing the fan or any rotational parts to maintenance personal, it is best that the VFD is electrically disconnected by a cutoff switch to ensure the safety of the maintenance personal

Reference Standards:

IEC 61508-1, IEC 61508-2, IEC 61508-3, IEC 61508-4, IEC 62061, ISO 13849-1 and IEC 61800-5-2

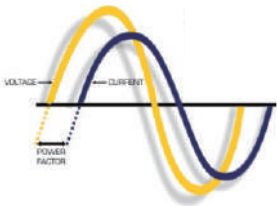
Complied with the EMC and Safety Standards



The CE marking on the name plate of the VFD indicates that the VFD is CE-compliant, meeting the regulations of the European low-voltage directive (2014/35/EU) and EMC directive (2014/30/EU).



Friendly with Environment



Built-in EMC filter and a DC choke.

This design replaces the need for an electrical distribution cabinet and saves space for other devices, while providing the benefits of harmonic suppression and better power quality to the system.



IP20 rating is touchproof and will be resistant to dust or objects that are over 12mm in size. However, it has no protection whatsoever against liquids and will be susceptible to damage if it comes into contact with sprays of water.

Model List

Outlook	Model Name	Output Power (kW)	Input Current (A)	Output Current (A)	Input Voltage	Output Voltage	Protection Degree	Frame Type
K120 Series 	K120-0R4G-2	0.40	6.5	2.5	1PH 220V±15% 50/60Hz	3PH 0-Vinput 0-400Hz	IP20	A
	K120-0R7G-2	0.75	9.3	4.2				B
	K120-1R5G-2	1.50	15.7	7.5				C
	K120-2R2G-2	2.20	24.0	10.0				
	K120-004G-2	4.00	40.0	16.0				
K154 Series 	K154-0R7G-2	0.75	10.0	4.5	1PH 220V±15% 50/60Hz	3PH 0-Vinput 0-400Hz	IP54	D
	K154-1R5G-2	1.50	15.5	7.0				E
	K154-2R2G-2	2.20	24.0	10.0				
	K154-3R7G-2	3.70	40.0	16.0				
K320 Series 	K320-2R2P-4	2.20	5.8	5.0	3PH 380V±15% 50/60Hz	3PH 0-Vinput 0-400Hz	IP20	F
	K320-003P-4	3.00	11.0	7.0				G
	K320-5R5P-4	5.50	19.5	12.5				H
	K320-7R5P-4	7.50	23.0	17.0				I
	K320-011P-4	11.0	30.0	23.0				J
	K320-015P-4	15.0	40.0	32.0				K
	K320-018P-4	18.5	45.0	38.0				L
	K320-022P-4	22.0	51.0	45.0				M
	K320-030P-4	30.0	64.0	60.0				N
	K320-037P-4	37.0	80.0	75.0				O
	K320-045P-4	45.0	98.0	92.0				P
	K320-055P-4	55.0	128.0	115.0				
	K320-075P-4	75.0	139.0	150.0				
	K320-090P-4	90.0	168.0	170.0				
	K320-110P-4	110.0	201.0	215.0				
	K320-132P-4	132.0	265.0	260.0				
	K320-160P-4	160.0	310.0	305.0				
	K320-185P-4	185.0	345.0	340.0				
	K320-200P-4	200.0	385.0	380.0				
	K320-220P-4	220.0	430.0	425.0				
	K320-250P-4	250.0	460.0	480.0				
	K320-280P-4	280.0	500.0	530.0				
	K320-315P-4	315.0	580.0	600.0				
	K320-355P-4	355.0	625.0	650.0				
	K320-400P-4	400.0	715.0	720.0				
	K320-450P-4	450.0	840.0	820.0				
	K320-500P-4	500.0	890.0	860.0				
K355 Series 	K355-5R5P-4	5.50	19.5	14.0	3PH 380V±15% 50/60Hz	3PH 0-Vinput 0-400Hz	IP55	Q
	K355-7R5P-4	7.50	25.0	18.5				R
	K355-011P-4	11.0	32.0	25.0				S
	K355-015P-4	15.0	40.0	32.0				T
	K355-018P-4	18.5	45.0	38.0				U
	K355-022P-4	22.0	51.0	45.0				V
	K355-030P-4	30.0	64.0	60.0				
	K355-037P-4	37.0	80.0	75.0				
	K355-045P-4	45.0	100.0	92.0				
	K355-055P-4	55.0	128.0	115.0				
	K355-075P-4	75.0	139.0	150.0				
	K355-090P-4	90.0	168.0	180.0				
	K355-110P-4	110.0	201.0	215.0				

Nomenclature

K320 - 018P - 4

2 is 220-240V 50/60Hz
4 is 380-440V 50/60Hz

G is Constant torque
P is Variable torque

2R2 is 2.2kW
018 is 18.5kW
045 is 45kW
110 is 110kW

20 is IP20
55 is IP55

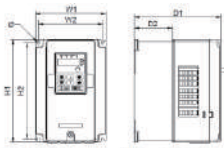
1 is Single phase
3 is Three phase

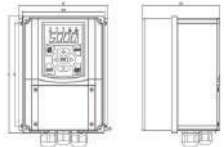
Kruger

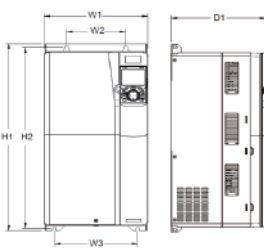
Product Specifications

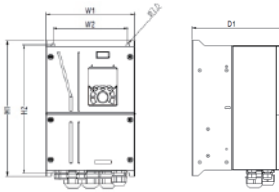
Function Descriptions		Model Series			
		K120 Series	K154 Series	K320 Series	
Power Input	Input Voltage (V)	AC 1PH 220V (-15%) - 240V (+10%)		AC 3PH 380V (-15%) - 440V (+10%)	
	Input Current (A)	Refer to Rated Value			
	Input Frequency (Hz)	50Hz or 60Hz, Allowable Range:47-63Hz			
Power Output	Output Voltage (V)	0-Input Voltage			
	Output Current (A)	Refer to Rated Value			
	Output Power (kW)	Refer to Rated Value			
	Output Frequency (Hz)	0-400Hz			
Technical Control Performance	Control Mode	SVC, VC, V/F	VC, V/F	SVPWM, SVC, VC	
	Motor Type	3PH-AC 220V and PMSM	3PH-AC 220V	3PH-AC 380V and PMSM	
	Speed Regulation Ratio	AC Motor 1:100 (SVC) PMSM 1:20 (SVC)	AC Motor 1:100	AC Motor 1:100 (SVC) PMSM 1:20 (SVC) 1:1000 (VC)	AC Motor 1:200 (SVC) PMSM 1:20 (SVC) 1:1000 (VC)
	Speed Control Precision	±0.2% (SVC)	0.01Hz	±0.2% (SVC), ±0.02% (VC)	
	Speed Fluctuation	±0.3% (SVC)	±0.2%	±0.3% (SVC)	
	Torque Response	<20ms (SVC)	-	<20ms (SVC), <10ms (VC)	
	Torque Control Precision	10% (SVC)	-	10% (SVC), 5% (VC)	
	Starting Torque	AC Motor: 0.25Hz/150% (SVC) PMSM: 2.5 Hz/150% (SVC)	AC Motor: 1.5Hz/150%	AC Motor: 0.25Hz/150% (SVC) PMSM: 2.5 Hz/150% (SVC), 0Hz/200% (VC)	
Overload Capacity	150% of rated current, 1min.		120% of rated current, 1min.		
Running Control Performance	Frequency Setup Mode	Digital Keypad, Analog Signal, Modbus	Digital Keypad, Analog Signal	Digital, Analog, Pulse frequency, Multi-step speed running, Simple P L C, PID, Modbus communication, PROFIBUS communication, etc. Realize switch-over between the set combination and the set channel	
	Automatic Voltage Regulation Function	Keep the output voltage constant when grid voltage changes.			
	Automatic Voltage Function	Over-current, Over-voltage, Under-voltage, Over-temperature, Phase loss and Overload, etc.			
	Speed Tracking Restart Function	Used to implement impact-free smooth startup for rotating motors.			Realize impact-free starting of the motor in rotating Note: This function is available for 5R5P and above models
Peripheral Interface	Analog Input	AI2: 0-10V/0-20mA AI3: -10-10 V.	AI: 0-10V/0-20mA	AI1: 0-10V/0-20mA; AI2: -10-10 V.	
	Analog Output	AO1, AO2: 0-10V/0-20mA	-	AO1: 0-10V/0-20mA	
	Digital Input	4 regular inputs: max. frequency: 1kHz; 1 high-speed input; Max. frequency: 50kHz	5 input terminals	4 regular inputs: Max. frequency: 1kHz;Internal impedance: 3.3kΩ 2 high-speed input; Max. frequency: 50kHz	4 regular inputs; max. frequency: 1kHz; internal impedance: 3.3kΩ 2 high-speed inputs; max. frequency: 50kHz; Supports quadrature encoder input; with speed measurement function
	Digital Output	Y1 terminal output	-	1 high-speed pulse output; Max. frequency: 50kHz	1 high-speed pulse output; max. frequency: 50kHz 1 Y terminal open collector output
	Relay Output	Two programmable Relay Outputs: RO1A NO, RO1B NC, RO1C common port RO2A NO, RO2B NC, RO2C common port Contact Capacity: 3A/AC250V, 1A/DC30V	1 relay outputs: TA-TB on when normal operation TA-TC on when failure	Two programmable Relay Outputs: RO1A NO, RO1B NC, RO1C common port RO2A NO, RO2B NC, RO2C common port Contact Capacity: 3A/AC250V, 1A/DC30V	
Others	Installation Mode	Wall-Mounting, Rail-Mounting and Flange-Mounting	Wall-Mounting	Wall-Mounting, Rail-Mounting and Flange-Mounting	
	Operation Ambient Temperature	-10 - 50°C; Derating is required if the ambient temperature exceeds 40°C			
	Protection Level	IP20	IP54	IP20	IP55
	Cooling Mode	Air Cooling			
	Altitude	Below 1000m. When the altitude exceeds 1000m, derate by 1%			
	Brake Unit	Built-in braking units		Built-in brake units for VFD models 37kW and lower. Optional braking units parts for VFD models 45kW and higher.	Built-in brake units for VFD models 45kW and lower. Optional braking units parts for VFD models 55kW and higher.
	EMC	1PH 220V (4kW) VFD model can satisfy the requirements of IEC 61800-3 C3, other models can satisfy the requirements of IEC 61800-3 C3 by installing optional. The whole series can satisfy the requirements of IEC 61800-3 C2 by installing.	VFD model can satisfy the requirements of IEC 61800-3	Conducted emissions of all 380V models meet the requirements of C3 in the IEC/EN 61800-3 standard. External filter is optional: Conducted emissions can meet the requirements of C2 in the IEC/EN 61800-3 standard. Note: it is required to observe the EMC compliance required by the appendix of the manual. The motor and motor cables shall be selected based on technical requirments specified in the appendix of the manual.	

Dimensions

Outlook	Model Name	Frame Type	Dimension WxHxD (mm)	W1	W2	H1	H2	D1	Hole Diameter	Screw	Net Weight (kg)	Gross Weight (kg)
K120 Series  Figure B-6 Wall mounting of VFDs of IPH 220V (4k-W)	K120 - 0R4G - 2	A	80x160x123.5	80	60	160	150	123.5	5	M3	0.9	1.3
	K120 - 0R7G - 2											
	K120 - 1R5G - 2	B	80x185x140.5	80	60	185	175	140.5	5	M3	1.2	1.6
	K120 - 2R2G - 2											
	K120 - 004G - 2	C	170x320x196.3	170	151	320	303.5	196.3	6	M5	5.83	6.55

Outlook	Model Name	Frame Type	Dimension WxHxD (mm)	W1	W2	H1	H2	D1	Hole Diameter	Screw	Net Weight (kg)	Gross Weight (kg)
K154 Series 	K154 - 0R7G - 2	D	150x193x131	150	140	193	170	131	4.5	M4	2.25	3
	K154 - 1R5G - 2											
	K154 - 2R2G - 2											
	K154 - 3R7G - 2	E	150x228x131	150	140	228	205	131	4.5	M4	2.75	3.5

Outlook	Model Name	Frame Type	Dimension WxHxD (mm)	W1	W2	H1	H2	D1	Hole Diameter	Screw	Net Weight (kg)	Gross Weight (kg)
K320 Series 	K320 - 2R2P - 4	F	126x186x185	126.0	115.0	186.0	175.0	185.0	5.0	M4	2.0	3.0
	K320 - 003P - 4											
	K320 - 5R5P - 4	G	126x186x201	126.0	115.0	186.0	175.0	201.0	5.0	M4	2.5	3.5
	K320 - 7R5P - 4									M5		
	K320 - 011P - 4	H	146x256x192	146.0	131.0	256.0	243.5	192.0	6.0	M5	3	4.0
	K320 - 015P - 4	I	170x320x220	170.0	151.0	320.0	303.5	220.0	6.0	M5	6	7.0
	K320 - 018P - 4											
	K320 - 022P - 4	J	200x340.6x208	200.0	185.0	340.6	328.6	208.0	6.0	M5	8.5	10.6
	K320 - 030P - 4									M6		
	K320 - 037P - 4	K	250x400x223	250.0	230.0	400.0	380.0	223.0	6.0	M6	16	17.0
	K320 - 045P - 4											
	K320 - 055P - 4	L	282x560x201	282.0	320.0	560.0	542.0	258.0	9.0	M8	25	29.0
	K320 - 075P - 4											
	K320 - 090P - 4											
	K320 - 110P - 4											
	K320 - 132P - 4	M	338x554x330	338.0	400.0	554.0	535.0	330.0	10.0	M10	41	52.0
	K320 - 160P - 4											
	K320 - 185P - 4											
	K320 - 200P - 4											
	K320 - 220P - 4	N	500x870x360	500.0	560.0	870.0	850.0	360.0	11.0	M12	85	101.0
	K320 - 250P - 4											
	K320 - 280P - 4											
	K320 - 315P - 4											
	K320 - 355P - 4	O	750x1410x380	750	230	1410	1390	380	13/12	M12/M10	135	165
	K320 - 400P - 4											
	K320 - 450P - 4											
	K320 - 500P - 4											
	K320 - 500P - 4	P	620x1700x560	650	230	1700	1678	560	22/12	M12/M10	350	407
	K320 - 500P - 4											

Outlook	Model Name	Frame Type	Dimension WxHxD (mm)	W1	W2	H1	H2	D1	Hole Diameter	Screw	Net Weight (kg)	Gross Weight (kg)
K355 Series 	K355 - 5R5P - 4	Q	196x428.5x227	196.0	164.0	428.5	403.0	227.0	6.0	M5	8.5	11.0
	K355 - 7R5P - 4											
	K355 - 011P - 4											
	K355 - 015P - 4	R	223x503.8x250.7	223.0	187.0	503.8	475.0	250.7	7.0	M6	12.5	15.0
	K355 - 018P - 4											
	K355 - 022P - 4											
	K355 - 030P - 4	S	274x551.5x246	274.0	234.0	551.5	522.0	231.0	7.0	M6	20.0	23.0
	K355 - 037P - 4											
	K355 - 045P - 4											
	K355 - 055P - 4	T	318x619x242.9	318.0	263.0	619.0	587.0	242.9	9.0	M8	26.5	30.0
	K355 - 075P - 4											
	K355 - 090P - 4											
	K355 - 110P - 4	V	370x825.3x335	370.0	310.0	825.3	788.0	335.0	11.0	M10	63.7	82.5
	K355 - 110P - 4											

Accessories

The following figure shows the external option wiring of the VFD.

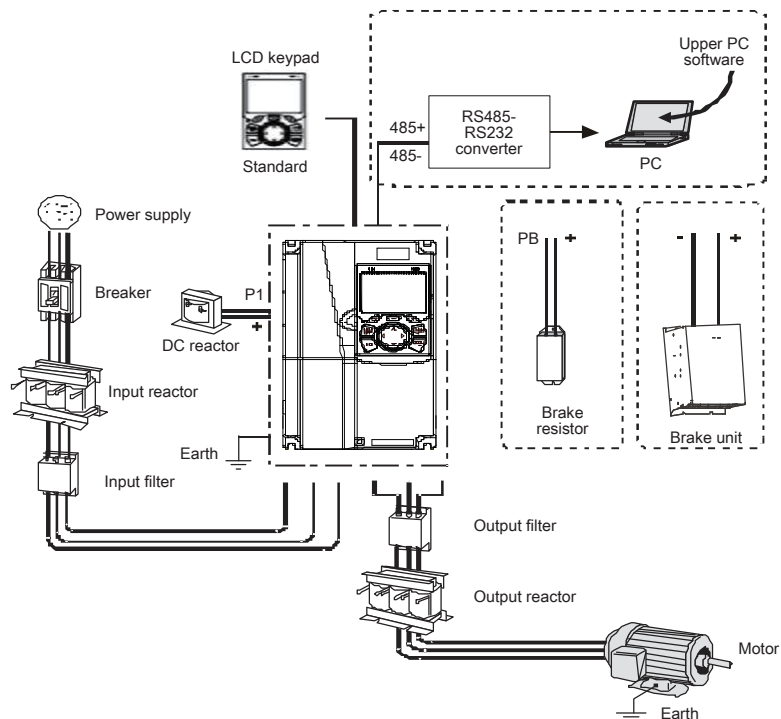
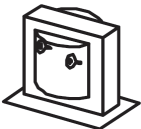
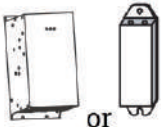
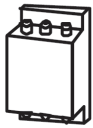


Image	Name	Description
	Input Reactor	Accessories used to improve the current adjustment coefficient on the input side of the VFD, and thus restrict high-order harmonic currents. The VFD models of 160P and higher can be directly connected to external DC reactors.
	DC Reactor	
	Input Filter	Accessory that restricts the electromagnetic interference generated by the VFD and transmitted to the public grid through the power cable. Try to install the input filter near the input terminal side of the VFD.
	Braking Unit or Braking Resistor	Accessories used to consume the regenerative energy of the motor to reduce the DEC time.
	Output Filter	Accessory used to restrict interference generated in the wiring area on the output side of the VFD. Try to install the output filter near the output terminal side of the VFD.
	Output Reactor	Accessory used to lengthen the valid transmission distance of the VFD, which effectively restricts the transient high voltage generated during the switch-on and switch-off of the IGBT module of the VFD.

List of Accessories

Power Input	Protection Degree	No.	Model Name	Power (kW)	OPTIONS								
					Input Reactor (Harmonic)	Output Reactor (Transient Voltage)	DC Reactor (Power Factor)	Input C2 Filter (EMC)	Output C2 Filter (EMC)	Braking Units (Regenerative Energy)			
1 Phase 220V 50/60Hz	IP20	1	K120-0R4G-2	0.4	-	-	Built-in DC Reactor	FLT-PS2010H-B	FLT-L04006L-B	Built-in Braking Unit			
		2	K120-0R7G-2	0.8	-	-							
		3	K120-1R5G-2	1.5	-	-		FLT-PS2025L-B	FLT-L04016L-B				
		4	K120-2R2G-2	2.2	-	-							
		5	K120-004G-2	4.0	-	-		FLT-P04045L-B	FLT-L04045L-B				
1 Phase 220V 50/60Hz	IP54	6	K154-0R7G-2	0.8	-	-	Built-in DC Reactor	BK-10A-H0.2	BKL-5A*H0.2	Built-in Braking Unit			
		7	K154-1R5G-2	1.5	-	-			BKL-10A*H0.2				
		8	K154-2R2G-2	2.2	-	-		BK-20A-H0.2					
		9	K154-3R7G-2	3.7	-	-			BKL-20A*H0.2				
3 Phase 380V 50/60Hz	IP20	10	K320-2R2P-4	2.2	ACL2-2R2-4	OCL2-2R2-4	Built-in DC Reactor	FLT-P04016L-B	FLT-L04016L-B	Built-in Braking Unit			
		11	K320-003P-4	3.0	ACL2-004-4	OCL2-004-4							
		12	K320-5R5P-4	5.5	ACL2-5R5-4	OCL2-5R5-4							
		13	K320-7R5P-4	7.5	ACL2-7R5-4	OCL2-7R5-4		FLT-P04032L-B	FLT-L04032L-B				
		14	K320-011P-4	11.0	ACL2-011-4	OCL2-011-4							
		15	K320-015P-4	15.0	ACL2-015-4	OCL2-015-4							
		16	K320-018P-4	18.5	ACL2-018-4	OCL2-018-4		FLT-P04032L-B	FLT-L04032L-B				
		17	K320-022P-4	22.0	ACL2-022-4	OCL2-022-4							
		18	K320-030P-4	30.0	ACL2-030-4	OCL2-030-4		FLT-P04065L-B	FLT-L04065L-B				
		19	K320-037P-4	37.0	ACL2-037-4	OCL2-037-4							
		20	K320-045P-4	45.0	ACL2-045-4	OCL2-045-4		FLT-P04100L-B	FLT-L04100L-B				
		21	K320-055P-4	55.0	ACL2-055-4	OCL2-055-4							
		22	K320-075P-4	75.0	ACL2-075-4	OCL2-075-4		FLT-P04150L-B	FLT-L04150L-B	DBU100H-110-4			
		23	K320-090P-4	90.0	ACL2-090-4	OCL2-090-4							
		24	K320-110P-4	110.0	ACL2-110-4	OCL2-110-4		FLT-P04240L-B	FLT-L04240L-B		DBU100H-160-4		
		25	K320-132P-4	132.0	ACL2-132-4	OCL2-132-4	FLT-P04400L-B	FLT-L04400L-B	DBU100H-220-4				
		26	K320-160P-4	160.0	ACL2-160-4	OCL2-160-4			DCL2-132-4	DBU100H-320-4			
		27	K320-185P-4	185.0	ACL2-200-4	OCL2-200-4	DCL2-160-4						
		28	K320-200P-4	200.0			DCL2-220-4						
		29	K320-220P-4	220.0	ACL2-250-4	OCL2-250-4	DCL2-280-4	FLT-P04600L-B	FLT-L04600L-B	DBU100H-400-4			
		30	K320-250P-4	250.0			DCL2-280-4						
		31	K320-280P-4	280.0	ACL2-280-4	OCL2-280-4	DCL2-280-4				FLT-P04800L-B	FLT-L04800L-B	Two sets DBU100H-320-4
		32	K320-315P-4	315.0	ACL2-315-4	OCL2-315-4	DCL2-280-4						
		33	K320-355P-4	355.0	ACL2-400-4	OCL2-400-4	DCL2-315-4						
		34	K320-400P-4	400.0			DCL2-350-4						
		35	K320-450P-4	450.0	ACL2-500-4	OCL2-500-4	DCL2-400-4	FLT-P041000L-B	FLT-L041000L-B	Two sets DBU100H-400-4			
		36	K320-500P-4	500.0			DCL2-500-4						
		3 Phase 380V 50/60Hz	IP55	37	K355-5R5P-4	5.5	ACL2-5R5-4	OCL2-5R5-4	-	FLT-P04032L-B	FLT-L04032L-B	Built-in Braking Unit	
				38	K355-7R5P-4	7.5	ACL2-7R5-4	OCL2-7R5-4	-				
				39	K355-011P-4	11.0	ACL2-011-4	OCL2-011-4	-	FLT-P04045L-B	FLT-L04045L-B		
				40	K355-015P-4	15.0	ACL2-015-4	OCL2-015-4	-				
				41	K355-018P-4	18.5	ACL2-018-4	OCL2-018-4	-	FLT-P04065L-B	FLT-L04065L-B		
				42	K355-022P-4	22.0	ACL2-022-4	OCL2-022-4	Built-in DC Reactor				
				43	K355-030P-4	30.0	ACL2-030-4	OCL2-030-4		FLT-P04100L-B	FLT-L04100L-B		
				44	K355-037P-4	37.0	ACL2-037-4	OCL2-037-4					
				45	K355-045P-4	45.0	ACL2-045-4	OCL2-037-4		FLT-P04150L-B	FLT-L04150L-B		
46	K355-055P-4			55.0	ACL2-055-4	OCL2-055-4							
47	K355-075P-4			75.0	ACL2-075-4	OCL2-075-4	FLT-P04240L-B	FLT-L04240L-B					
48	K355-090P-4			90.0	ACL2-90-4	OCL2-090-4							
49	K355-110P-4			110.0	ACL2-110-4	OCL2-110-4				DBU100H-160-4			

KRUGER Ventilation Group

THAILAND (Regional Head Quarter)

KRUGER VENTILATION INDUSTRIES ASIA CO., LTD.

30/159 Moo 1, Sinsakorn Industrial Estate Chetsadawithi Road,
Khok Kham, Mueang Samut Sakhon 74000, Thailand
Tel: +662 1054298 Fax: +662 0248256-9
website: www.krugertan.com

THAILAND

KRUGER VENTILATION IND. (THAILAND) CO., LTD.

30/105 Moo 1, Sinsakorn Industrial Estate Chetsadawithi Road,
Khok Kham, Mueang Samut Sakhon 74000, Thailand
Tel: +662 1050399 Fax: +662 1050370-2
Email: mktg@kruger.co.th

INDIA

KRUGER VENTILATION INDUSTRIES (INDIA) PVT. LTD.

Kruger Centre, Mumbai-Nashik Highway, Shahapur,
Thane 421601, Maharashtra, India
Tel: +91 99605 58899, +91 97663 23739
Email: sales@krugerindia.com

INDIA (NORTH)

KRUGER VENTILATION INDUSTRIES (INDIA) PVT. LTD.

Khasra No. 150/20/2/1, 21/1/2, 22/2, 151/16/2/2, Village Rohad,
Tehsil Bahadurgarh, Jhajjar-124507, Haryana, India
Tel: +91-9958991652 / 9958991660 / 8586966303
Fax: +91-1276-278096
Email: sales.kni@krugerindia.com, service@krugerindia.com

KOREA

NEOMATE CO., LTD.

2-1010, Ace High Tech City B/D, 775 Gyeongin-ro,
Yeongdeungpo-gu, Seoul, Korea, 07299
Tel: +82-2-2679-2052 Fax: +82-2-2679-2174
Email: y7890@neomate.co.kr

SINGAPORE

KRUGER ENGINEERING PTE. LTD.

2 Venture Drive, #20-23 Vision Exchange,
Singapore 608526
Tel: +65 68631191 Fax: +65 68631151
Email: mktg@krugervan.com

AUSTRALIA

S&P KRUGER AUSTRALIA PTY. LTD.

2 Cunningham St, Moorebank, NSW 2170, Australia
Tel: +61 2-98227747
Fax: +61 2-98227757
Email: info@sandpkruger.com.au

INDONESIA

P.T. KRUGER VENTILATION INDONESIA.

JL. Teuku Umar No. 20, Karawaci, Tangerang 15115, Indonesia
Tel: +62 21-5512288 / 5513557
Fax: +62 21-5513502
Email: mktg@krugerindo.co.id

VIETNAM

KRUGER VENTILATION INDUSTRIES (VIETNAM) CO. LTD.

Lot A7.2-4, C2 Road, Thanh Thanh Cong Industrial Zone,
Trang Bang District, Tay Ninh Province, Vietnam
Tel: +84-276 3585200 / 01 / 02 / Fax: +84-276 3585199
Email: mktg@krugervn.com

CHINA (GUANGZHOU)

GUANGZHOU KRUGER VENTILATION CO. LTD.

No. 9 Huahui Road, Huashan Town, Huadu District,
Guangzhou, P.R. China 510880
Tel: +86 20-66356635 Fax: +86 20-86786001 / 86786500
Email: gzkru@krugergz.com

CHINA (TIANJIN)

TIANJIN KRUGER VENTILATION CO. LTD.

No. 168, Anyuan Road, Chagugang Town,
Wuqing District, Tianjin, 301700, China
Tel: +86 22-22143480 / 3481 Fax: +86 22-22143482
Email: krugertj@krugertj.com

CHINA (SHANGHAI)

SHANGHAI KRUGER VENTILATION CO., LTD.

No. 500 Yuanguo Road, Anting, Jiading District,
Shanghai 201814, P.R. China
Tel: +86 21-69573266 Fax: +86 21-69573296
Email: shkruger@krugerchina.com

CHINA (WUHAN)

WUHAN KRUGER VENTILATION CO. LTD.

No. 805, Huian Ave, Dongxihu District, Wuhan,
Hubei, P.R. China 430040
Tel: +86 27-83248840 / 83060522 / 83097505
Fax: +86 27-83261886
Email: whkruger@krugerwh.com

HONG KONG

KRUGER VENTILATION (HONG KONG) LIMITED.

Flat C, 9/F, Yeung Yiu Chung (No. 8) Industrial Building,
20 Wang Hoi Road, Kowloon Bay, Kowloon, Hong Kong
Tel: +852 22469182 Fax: +852 22469187
Email: info@kruger.com.hk

TAIPEI

KRUGER VENTILATION (TAIWAN) CO. LTD.

No. 157, Ping'an Road, Hengfeng Village,
Dayuan Shiang District, Taoyuan City 337, Taiwan
Tel: +886 3-3859119 Fax: +886 3-3859118
Email: sales@krugertwn.com.tw

MALAYSIA

KRUVENT INDUSTRIES (M) SDN. BHD.

Lot 850, Jalan Subang 7, Taman Perindustrian Subang,
47500 Subang Jaya, Selangor Darul Ehsan, Malaysia
Tel: +603 80743399 Fax: +603 80743388
Email: mktg@kruger.com.my

PHILIPPINES

KRUGER M & E INDUSTRIES CORP.

B3 Welborne Industrial Park, Bancal, Carmona,
Cavite 4116, Philippines
Tel: +63-917 561 9088, +63-917 596 7288
+63-917 712 8438, +63-917 306 8288
Email: mktg@krugerph.net



Kruger Ventilation Industries Asia Co., Ltd.

30/159 Moo 1, Sinsakorn Industrial Estate
Chetsadawithi Road, Khok Kham Mueng,
Samuthsakorn 74000, Thailand
Tel: +662 1054298 Fax: +662 0248256-9
Website: www.krugerfan.com

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A member of

