

AL 1120 D6 01

162715

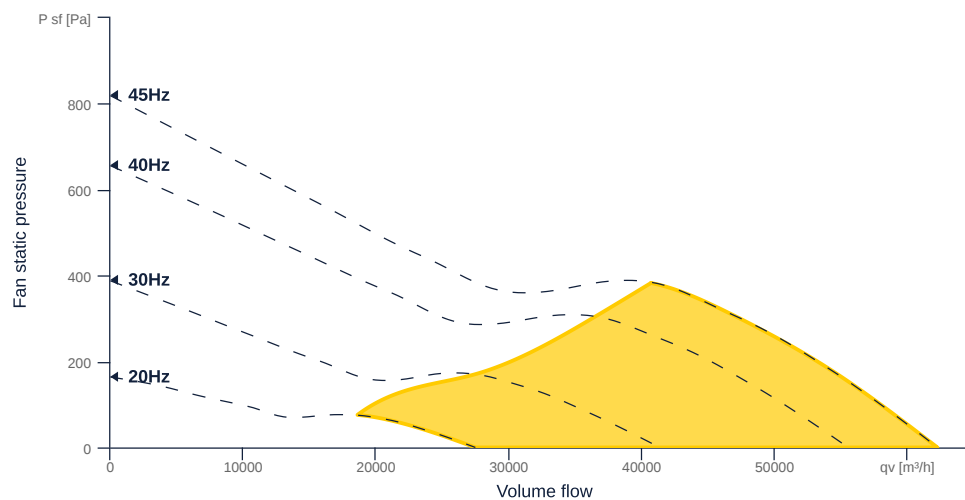
ruck

- Innovative, high-efficiency axial fan
- Optimally tuned, CFD-optimized aerodynamics
- Housing weight optimized, powder coated
- Efficient IE3 motor, frequency controllable
- Conveyed medium temperature up to 60 °C in continuous operation
- Exceeds current ErP regulation by 15 - 20%



FAN CURVES

Name	Value	Unit
Volume flow	0	m³/h
Pressure	0	Pa



GENERAL DATA

Name	Value	Unit	Formula symbol
Labeling	CE, UKCA		
Duct size	-		$W \times H_{duct}$
Pipe connection size (DN)	DN1120		DN
Rated voltage (entire device)	400	V	U_{rated}
Phases (entire device)	3~		phase
Electrical protection (entire device)	20 A		fuse
Housing material	Steel		matcasing
Impeller material	Steel		matimpeller
IP-protection class (entire device)	IPX4		IPcompl
IP-Protection class (terminal box)	IP55		IPebox
Weight	218	kg	m
Fan type	Axial		Fan _{type}
Category / Installation situation	B		cat

MAXIMAL DATA

Name	Value	Unit	Formula symbol
Max. power consumption (device)	7053	W	$P_{ed, max}$
Max. operating current (device)	16.2	A	$I_{ed, max}$
Max. speed	860	1/min	n_{max}
Max. stat. efficiency	55.8	%	η_{es}
Max. fan efficiency	71.9	%	η_e
Max. flowrate	62250	m ³ /h	$Q_{v, max}$
Max. stat pressure	390	Pa	$p_{sf, max}$
Max. medium temperature	60	°C	$T_{m, max}$
Max. environment temperature	60	°C	$T_{amb, max}$
Min. environment temperature	-20	°C	$T_{amb, min}$



MOTOR DATA

Name	Value		Unit	Formula symbol
	50 Hz	60 Hz		
Rated frequency (device)		50		f
Motor type		AC 3~		phase
Control type		frequency-controlled		ctrltype
Installation type		IRM (In)		install
Isolation class		ISO F		ISOclass
Protection class		IP55		IPmotor
Is pole-changeable		No		polexch
Type of power supply		AC 3~		pwrSUPmotor
Number of poles (1)		6.000000		num polesw1
Connection	Δ			wiringw1
Connection (wiring 2)	Y			wiringw2
Rated voltage	400		V	Urated, f1
Rated voltage (wiring 2)	690		V	Urated, f2
Rated current	22		A	Irated, f1
Rated current (wiring 2)	12.8		A	Irated, f2
Shaft power	11000		W	Pout, f1
Shaft power (wiring 2)	11000		W	Pout, f2
Speed	970		1/min	n1
Speed (wiring 2)	970		1/min	n2
Starting current	154		A	Istart, f1
Starting current (wiring 2)	89.3		A	Istart, f2
Efficiency	90.3		%	ηm, f1
Efficiency (wiring 2)	90.3		%	ηm, f2
Efficiency class	IE3			IEmotor
Min. temperature	-20		°C	Tmotor, min
Cos Phi	0.800000	0.000000		cos φ
UL-Certification motor		UL recognized		ULcert

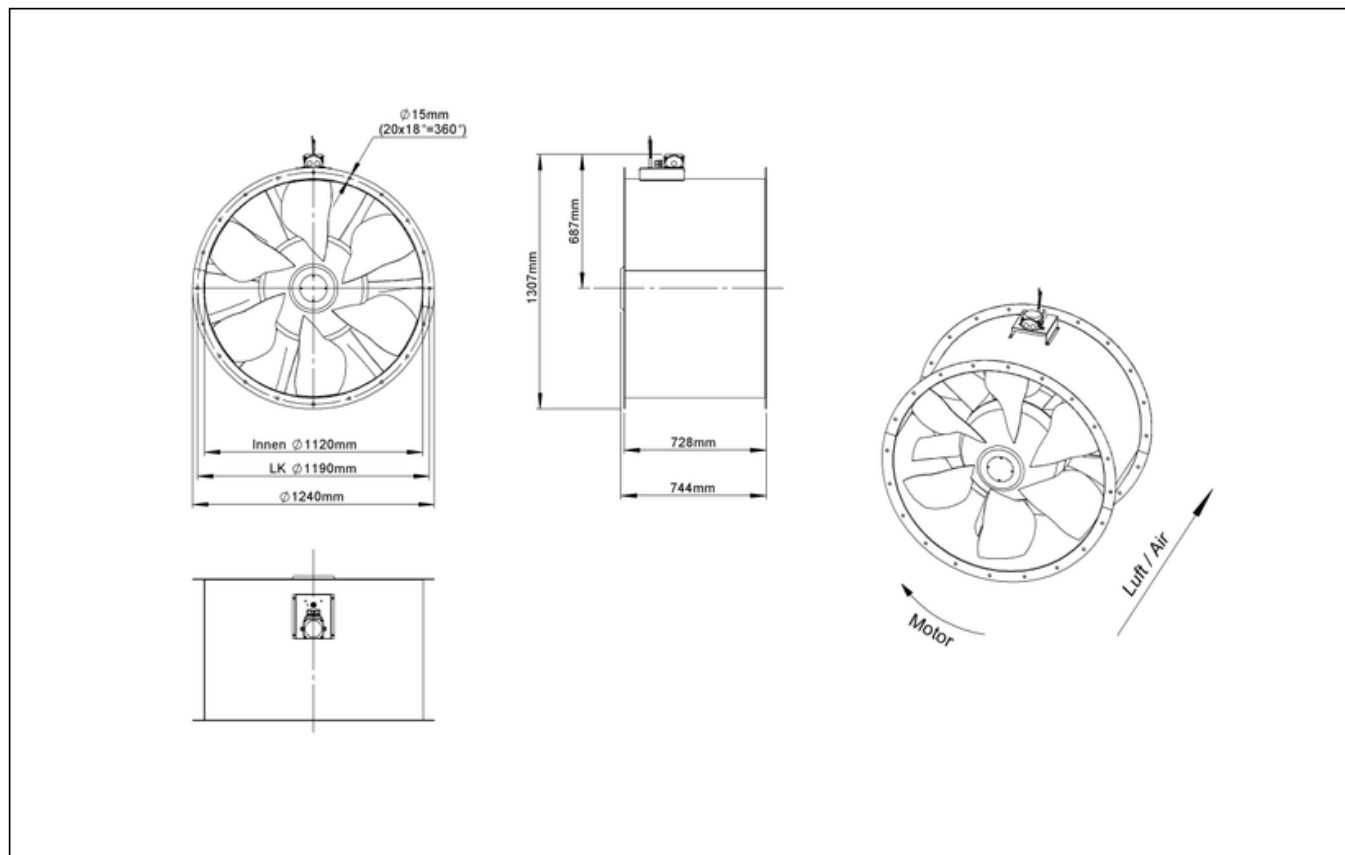
ERP DATA (LOT11)

Name	Value	Unit	Formula symbol
Speed at the energy efficiency optimum	838	1/min	n _{opt}
Efficiency level	75	%	N
Efficiency category	total		cat _{efficiency}
Input power of the motor at the energy efficiency optimum	7.49	kW	P _{e, opt}
Overall efficiency	75.8	%	η _{ges}
Measurement category	B		meas cat
Fan pressure at energy efficiency optimum	425	Pa	p _{f, opt}
Flowrate at energy efficiency optimum	45722	m³/h	Q _{v, opt}



to the product detail page

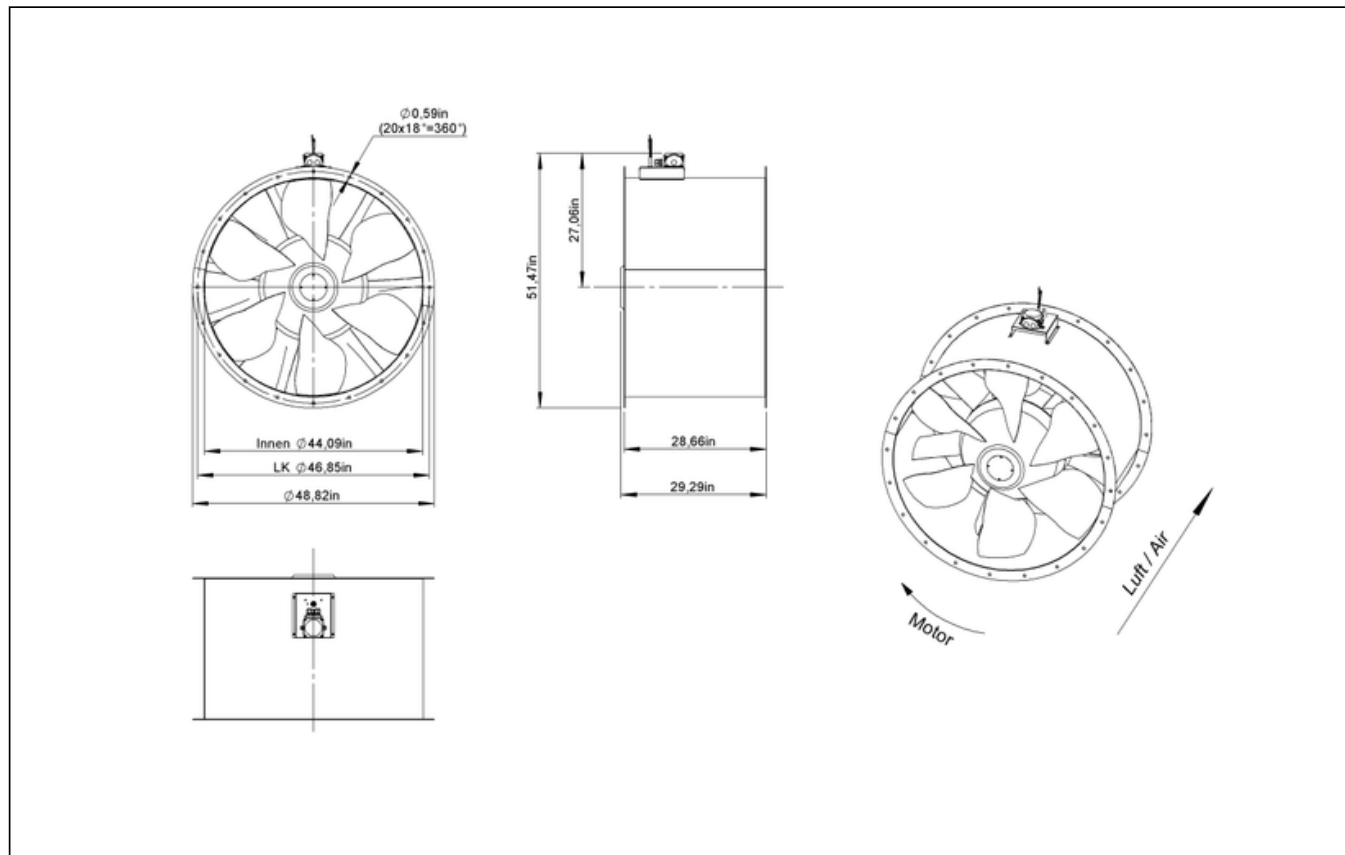
CIRCUIT DIAGRAMS / DIMENSIONAL DRAWINGS



AL 1120 D6 01

162715

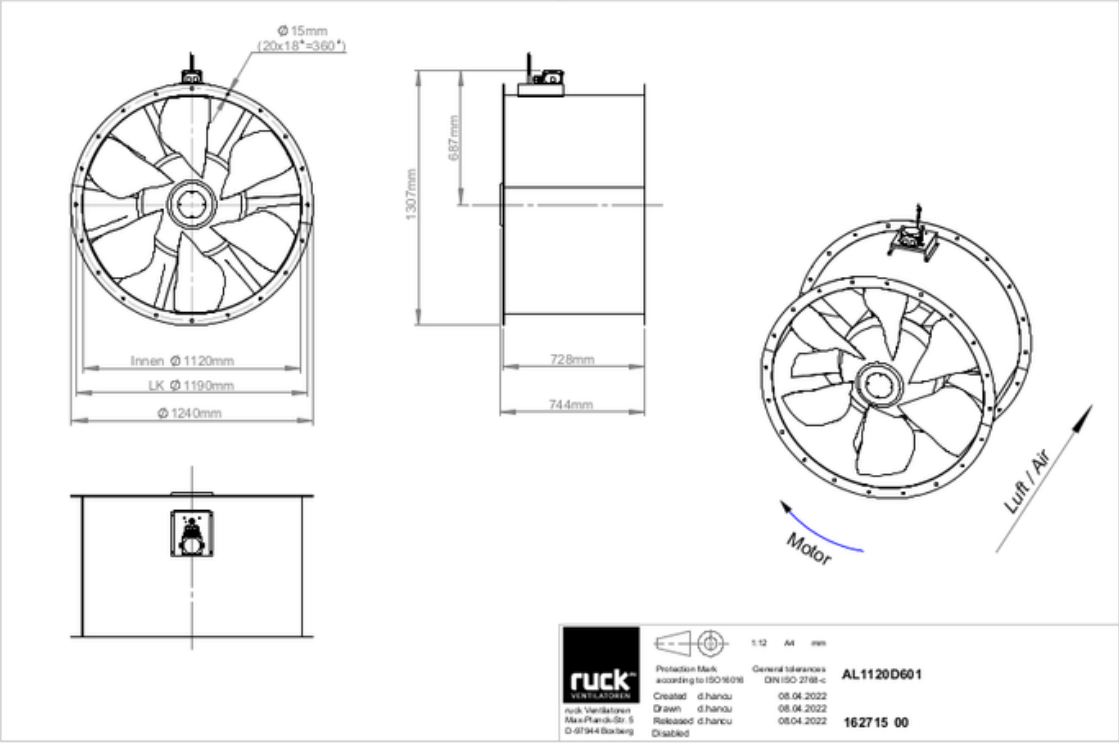
ruck



to the product detail page

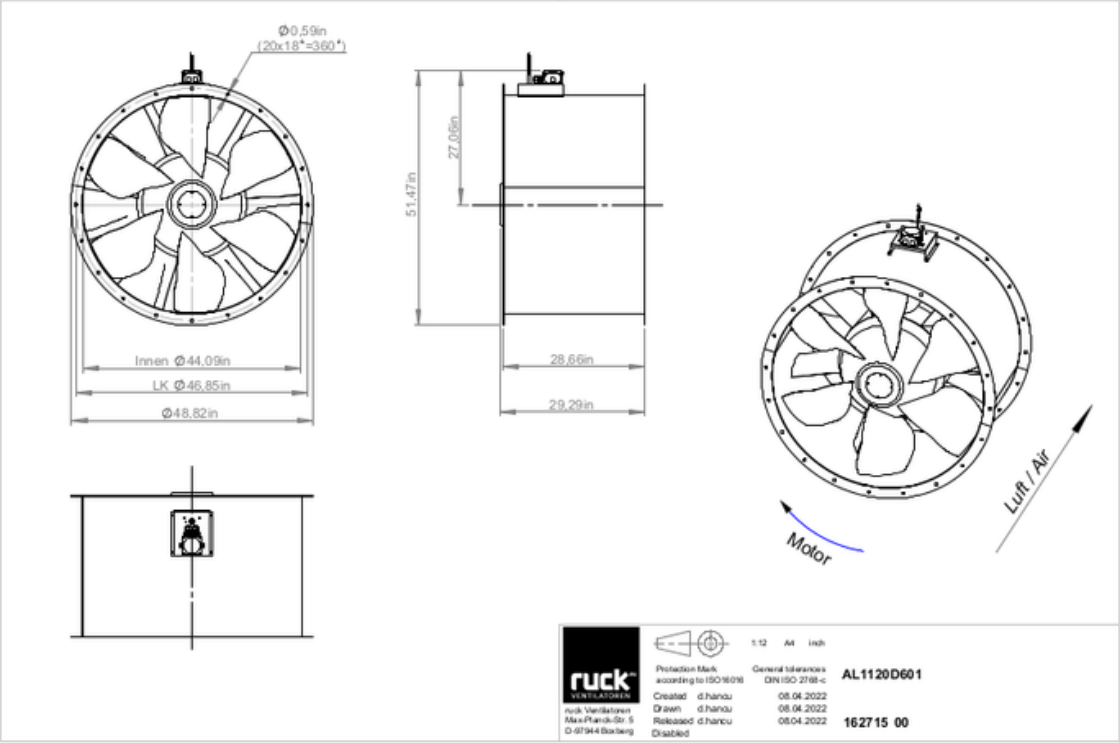
AL 1120 D6 01

162715



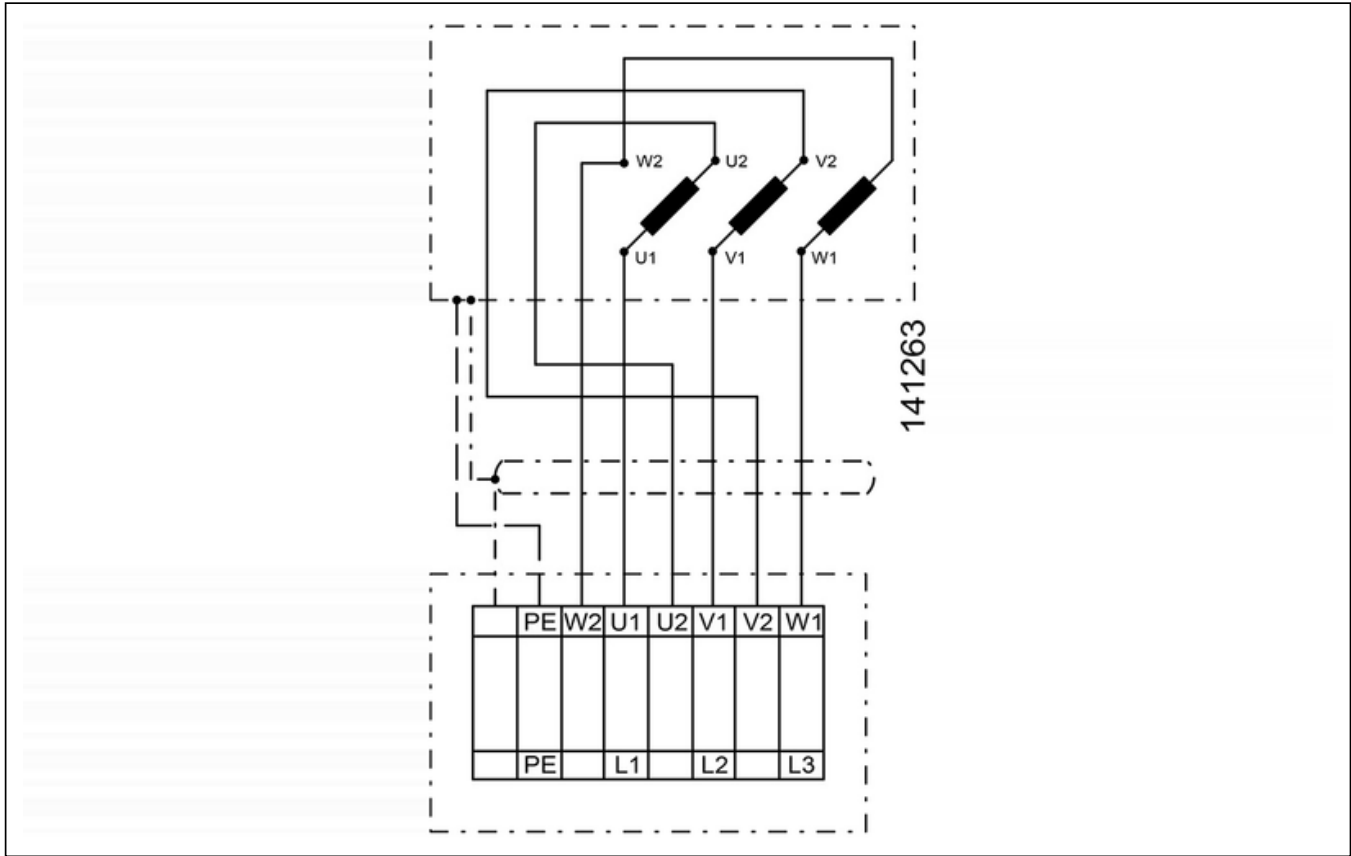
AL 1120 D6 01

162715



AL 1120 D6 01

162715



to the product detail page

MECHANICAL ACCESSORIES

RVS 1120-01 | 157481



- Tube connection spigot
- Sheet steel, powder coated
- Suitable for outdoor installation
- Flange mounting

ESD 1120 | 159333



- Inlet cone
- Steel sheet, powder coated
- Flange mounting

SGW 1120 | 159543



- Protection grille, wide meshed
- Steel sheet, galvanized
- Flange mounting

SGW 1250 | 159544



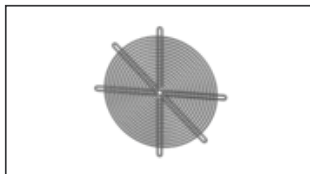
- Protection grille, wide meshed
- Steel sheet, galvanized
- Flange mounting

RVK H 1120 | 163911



- Automatic tube shutter
- Sheet steel, powder coated
- For horizontal installation
- Flange mounting

SGE 1120 | 159519



- Protection grille, narrow meshed
- Steel sheet, galvanized
- Flange mounting

FSD 08 | 162473



- Set of 4 vibration dampers
- Made of natural rubber, hardness 55 Shore A

RAF 1120 | 157497



- Round flange
- Sheet steel, powder coated

RAS 1120 | 157638



- Round spigot, flexible
- Galvanized steel sheet, plastic band (PES)
- Temperature resistant up to 75 °C
- Flange mounting

FAL 1120 | 157900



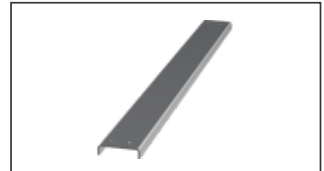
- Mounting foot
- Sheet steel, powder coated
- Flange mounting

FSD10 | 162484



- Set of 4 vibration dampers
- All metal design, galvanized

TRA 1120-1250 | 163013



- Crossbeam
- Connection between mounting feet
- Galvanized steel sheet

RVK 1120 | 157837



- Automatic tube shutter
- Sheet steel, powder coated
- For vertical installation
- Flange mounting

MR 1120 | 166085



- Mounting ring
- For vertical mounting
- Powder-coated sheet steel
- Flange mounting DN 1120



ELECTRICAL ACCESSORIES

MS 05 | 160183



- Motor protection switch with device switch function
- For three phase motors
- I_{max} = 6.3 A
- Protection class IP 55

MTP 20 | 128146



- Potentiometer 10 kΩ
- Switching contact 1A/250V AC - 2,5A/12V DC
- Max. ambient temperature 50 °C
- VDE

MTP 30 | 143289



- Stepped potentiometer 10 kΩ
- Step 1 + 2 settable 10 % - 100 % V_{dc}
- Step 3 100 % V_{dc}
- Supply voltage +10 V_{dc}

SEN AIR | 148641



- Airflow and temperature transducer
- Measuring range temperature 0...+50 °C
- With adjustable switching threshold (air speed)
- Measuring range air velocity up to 20 m/s

CON P1000 | 115259



- Constant pressure control
- Actual value display possible via optional control unit
- Output 0-10 V DC + FC enable + setpoint reached
- Pressure setting by means of decade switch

FU 55 34 | 161426



- Frequency converter
- Supply voltage 400 V 3~ 50/60 Hz
- Output voltage 0 - 400 V 3~
- Fire mode function (smoke extract fans)

FU 55 35 | 164112



- Frequency converter
- Supply voltage 400 V 3~ 50/60 Hz
- Output voltage 0 - 400 V 3~
- Protection class IP 20, for switch cabinet

