

MPC 500 D4 TI 40

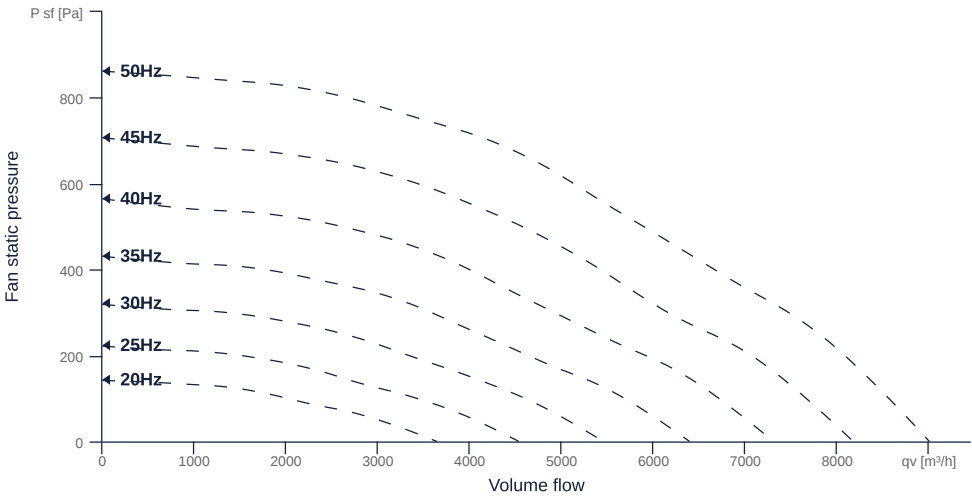
158261

- Backward curved radial impeller
- Removable side walls, variable discharge direction
- Sheet steel housing double-walled, 30 mm mineral wool
- AC motor outside the airflow, controllable
- Conveyed medium temperature up to 120 °C in continuous operation
- Housing bottom designed with integrated drain



MAP

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



to the product detail page

MPC 500 D4 TI 40

158261

ruck

GENERAL DATA

Name	Value	Unit	Formula symbol
Labeling	CE, UKCA		
Duct size	-		WxH _{duct}
Pipe connection size (DN)	-		DN
Rated voltage (entire device)	400	V	U _{rated}
Phases (entire device)	3~		phase
Electrical protection (entire device)	6 A		fuse
Housing material	Galvanized steel		mat _{casing}
Impeller material	Steel		mat _{impeller}
Weight	120	kg	m
Nominal air flow rate, nominal point m³/h	4863.6	m³/h	q _{v,nom}
Nominal external pressure, static	638	Pa	p _{s,nom}
Fan type	Radial		F _{antype}
Category / Installation situation	A		cat

ERP DATA (LOT 6)

Name	Value	Unit	Formula symbol
Nominal air flow rate, nominal point m³/s	1.35	m³/s	q _{v,nom}
Actual electrical input power, nominal point	1.45	kW	P _{e,nom}
Face velocity, nominal point	5.6	m/s	v _{nom}
Nominal external pressure, static	638	Pa	p _{s,nom}
supply air fan static efficiency, nominal point	63.7	%	η _{es,SUP}
Highest external air leakage rate	0.04	%	
Enclosure sound level, nominal point	76	dB(A)	L _{WA2}
Rating	Product is compliant 2018		

MAXIMAL DATA

Name	Value	Unit	Formula symbol
Max. power consumption (device)	1461	W	P _{ed, max}
Max. operating current (device)	2.85	A	I _{ed, max}
Max. speed	1485	1/min	n _{max}
Max. stat. efficiency	55.5	%	η _{es}
Max. fan efficiency	57.3	%	η _e
Max. flowrate	9000	m³/h	q _{v, max}
Max. stat pressure	860	Pa	p _{sf, max}
Max. medium temperature	120	°C	T _{m, max}
Max. environment temperature	60	°C	T _{amb, max}
Min. environment temperature	-20	°C	T _{amb, min}



to the product detail page

MPC 500 D4 TI 40

158261

ruck

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
Rotation direction		right		rotation
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)		4.000000		num polesw1
Connection	Δ	Y		wiringw1
Connection (wiring 2)	Y			wiringw2
Rated voltage	230	460	V	U _{rated, f1}
Rated voltage (wiring 2)	400		V	U _{rated, f2}
Rated current	4.17	2.1	A	I _{rated, f1}
Rated current (wiring 2)	2.4		A	I _{rated, f2}
Shaft power	1100	1100	W	P _{out, f1}
Shaft power (wiring 2)	1100		W	P _{out, f2}
Speed	1455	1760	1/min	n _{f1}
Speed (wiring 2)	1455		1/min	n _{f2}
Starting current	31.7	17.9	A	I _{start, f1}
Starting current (wiring 2)	18.2		A	I _{start, f2}
Efficiency	84.8	86.5	%	$\eta_m, f1$
Efficiency (wiring 2)	84.8		%	$\eta_m, f2$
Efficiency class	IE3	IE3		IE _{motor}
Min. temperature	-20		°C	T _{motor, min}
Cos Phi	0.780000	0.760000		cos φ
UL-Certification motor		UL recognized		ULcert



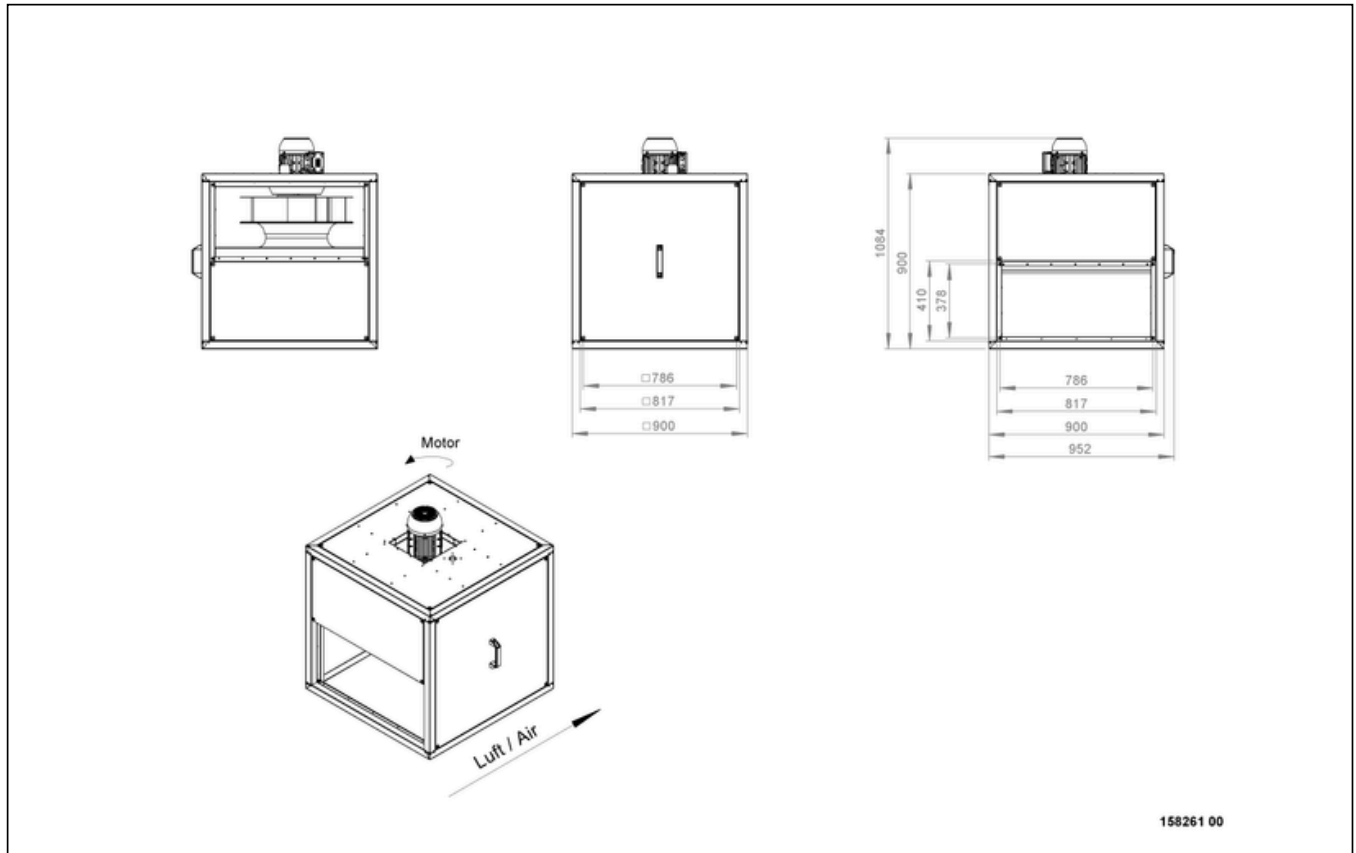
to the product detail page

MPC 500 D4 TI 40

158261

ruck

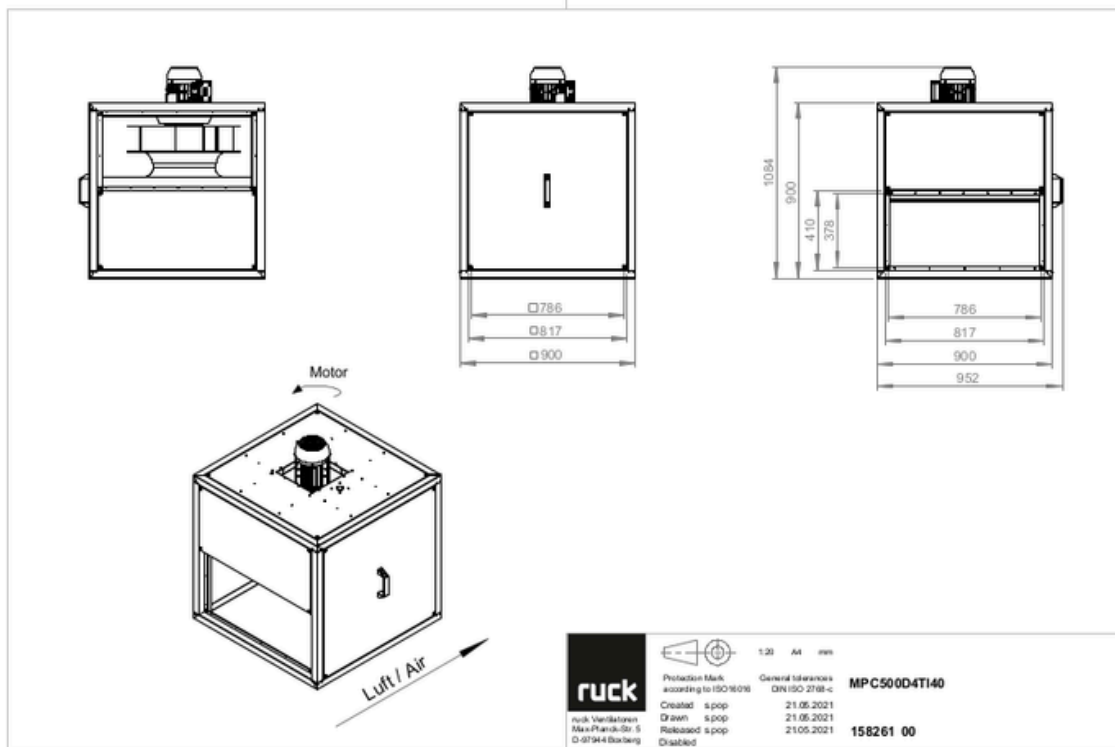
CIRCUIT DIAGRAMS / DIMENSIONAL DRAWINGS

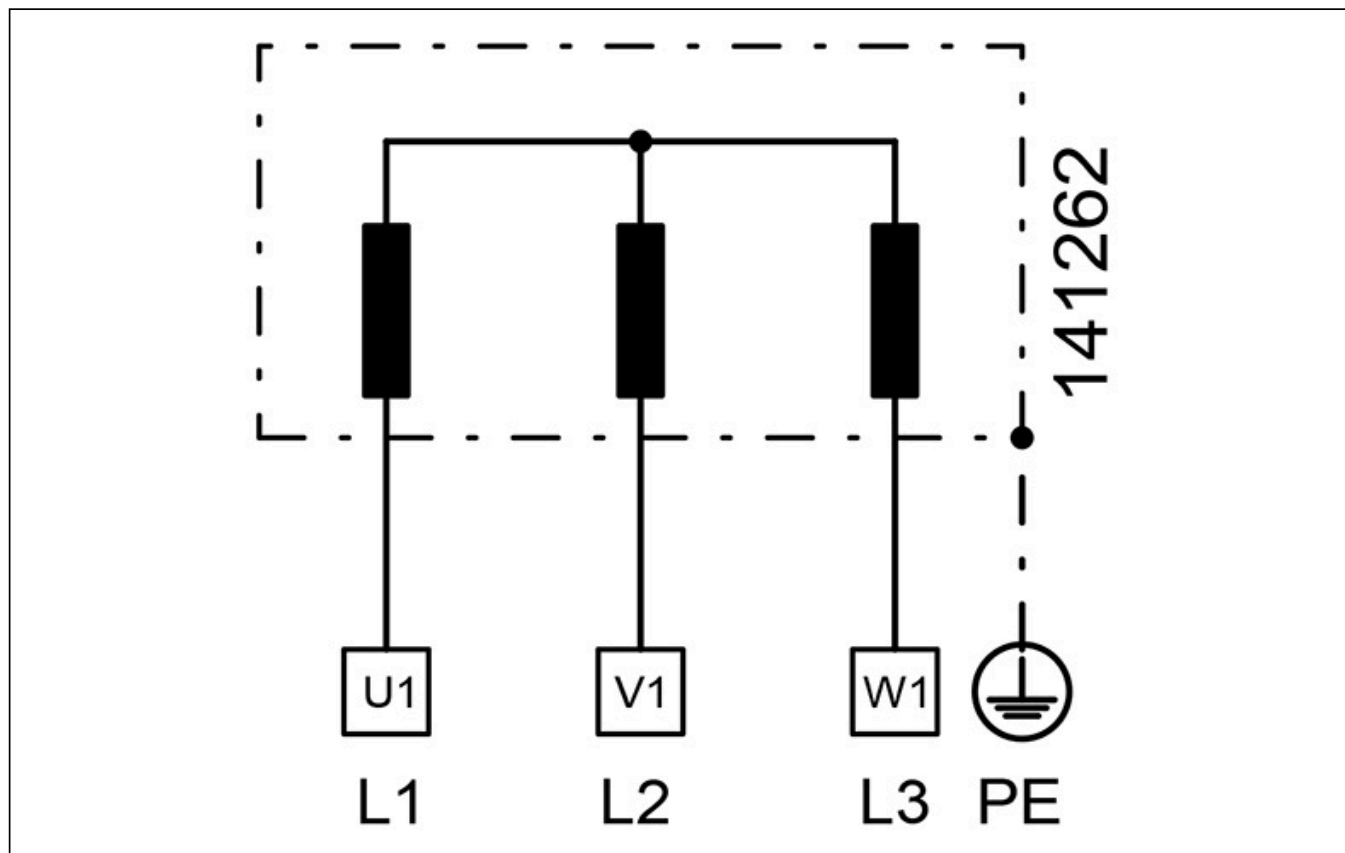


MPC 500 D4 TI 40

158261

ruck

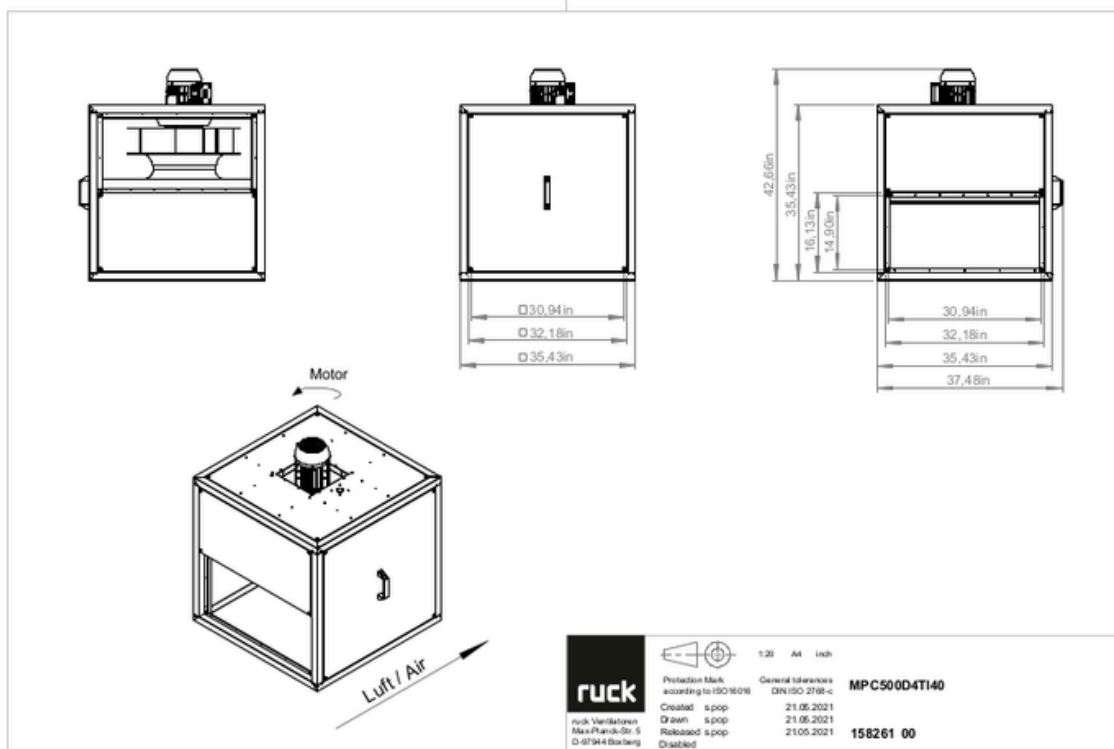




MPC 500 D4 TI 40

158261

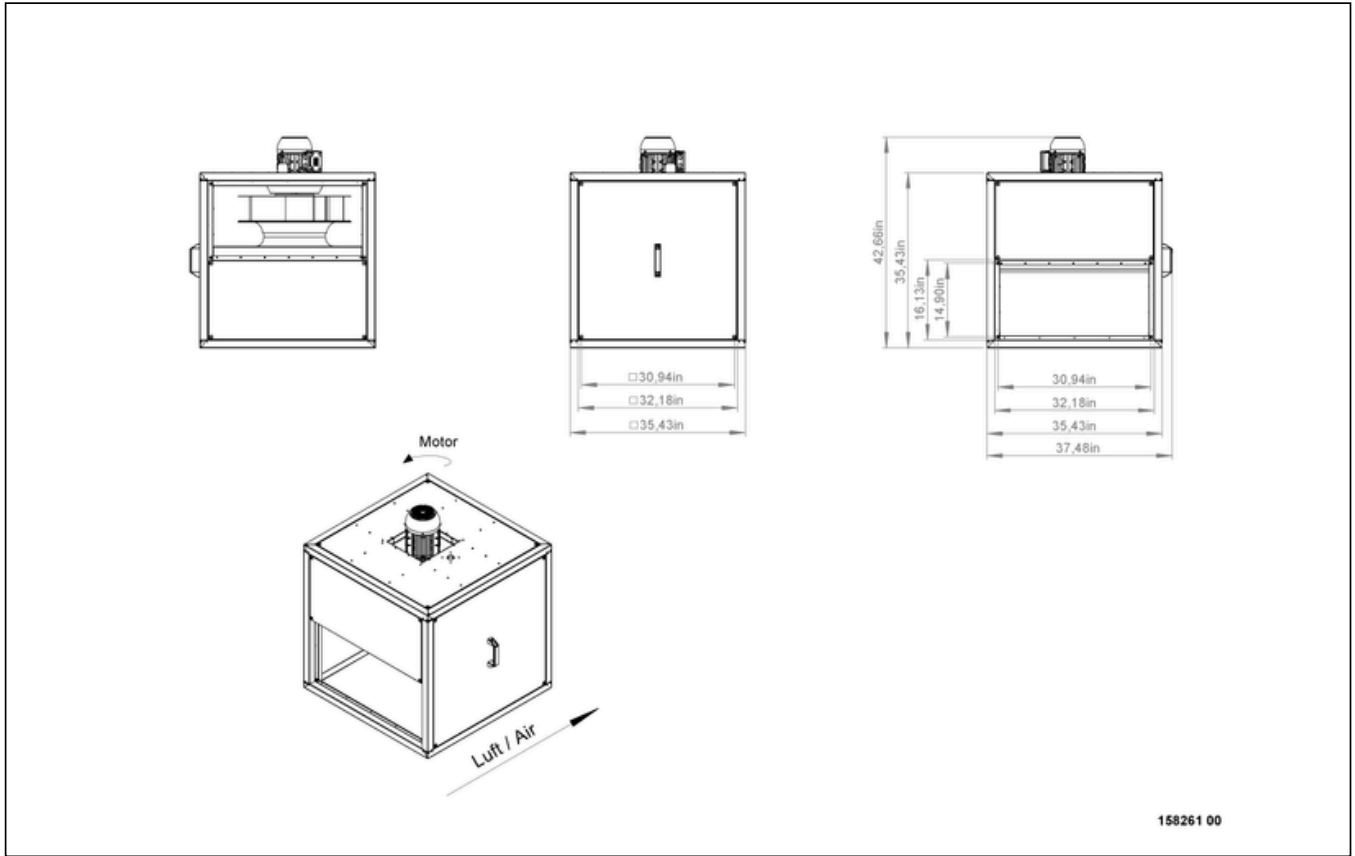
ruck



to the product detail page

MPC 500 D4 TI 40

158261



158261 00

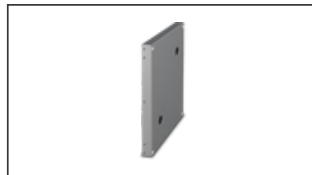
MECHANICAL ACCESSORIES

RSK 315 | 102664



- Back draught shutter for tube fitting
- Galvanized steel sheet housing
- Aluminum flaps

UCPD 900 | 146796



- Panel
- With condensate drain
- Galvanized steel sheet

UKR 8040 11 | 159876



- Transition duct / tube
- Steel sheet, galvanized
- 800 x 400 mm / NW 315 mm with seal lips

RSK 315D | 113489



- Back draught shutter for tube fitting
- Galvanized steel sheet housing
- Aluminum flaps
- Integrated gasket

VM 315 | 102652



- Fast clamps for sound decoupling and sealing
- Galvanized steel sheet, 5 mm
- Neopren gasket
- 1 Pack = 2 pieces



to the product detail page

ELECTRICAL ACCESSORIES

GS 03 | 107633



- Device switch
- $U_{max} = 400\text{ V}$, $I_{max} = 25\text{ A}$
- Switching capacity $400\text{ V } 3\sim = 5,5\text{ kW}$
- Protection class IP 55

MS 02 | 140409



- Motor protection switch with Isolator switchfunktion
- $I_{max} = 400\text{ V}$, 50/60 Hz
- Max. 1.5 kW
- Protection class IP 55

MTP 20 | 128146



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

MTP 30 | 143289



- Stepped potentiometer 10 k Ω
- Step 1 + 2 settable 10 % - 100 % Vdc
- Step 3 100 % Vdc
- Supply voltage+10 Vdc

MTP 40 | 147359



- Potentiometer 10 k Ω
- Connection in terminal box
- Max. ambient temperature 50 °C
- PU: 20 pieces

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 15 13 | 141855



- Frequency converter IP66
- Supply voltage 230 V 1~ 50/60 Hz
- Output voltage 0 - 230 V 3~
- Fire mode function (smoke extract fans)

FU 15 19 | 141877



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

FU 15 10 | 141844



- Frequency converter
- Supply voltage 230 V 1~ 50/60 Hz
- Output voltage 0 - 230 V 3~
- Protection class IP 20, for switch cabinet

FU 15 16 | 141866



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

MTP 50 | 153133



- Potentiometer with multifunction output
- 230 VAC $\pm 10\%$ / 50-60 Hz
- Selectable output: 1-10 VDC / 2-20 mA / 10-100 % PWM
- Min. and max. output value adjustable

