

EL 500 E4 01

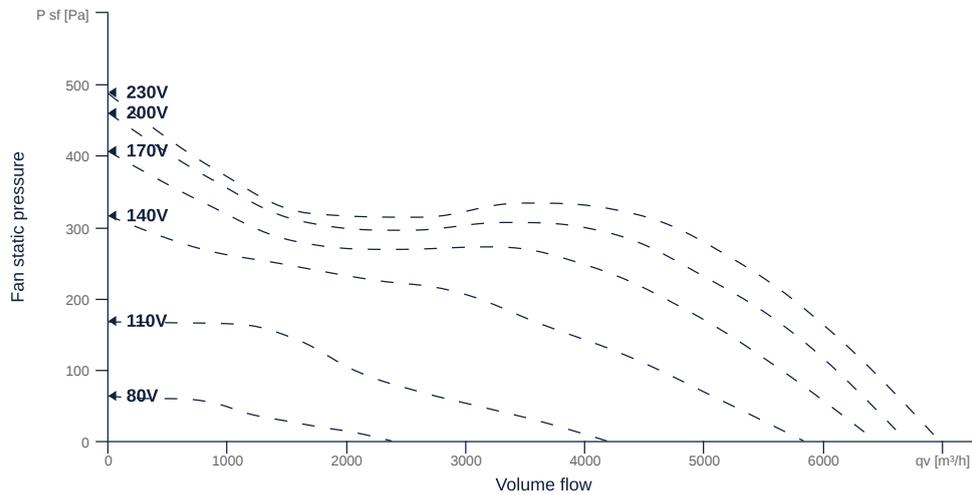
118061

- Innovative, high-efficiency diagonal fan
- Optimally tuned, CFD-optimized aerodynamics
- The benchmark for efficiency since 2007
- Robust single phase AC motor
- Conveyed medium temperature up to 80 °C in continuous operation
- Housing made of aluminum



FAN CURVES

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



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GENERAL DATA

Name	Value	Unit	Formula symbol
Labeling	none		
Duct size	-		WxHduct
Pipe connection size (DN)	DN500		DN
Rated voltage (entire device)	230	v	U _{rated}
Phases (entire device)	1~		phase
Electrical protection (entire device)	6 A		fuse
Housing material	Aluminium		matcasing
Impeller material	Aluminium		matimpeller
IP-protection class (entire device)	IPX4		IPcompl
IP-Protection class (terminal box)	IP44		IPebox
Weight	23.2	kg	m
Fan type	Diagonal		Fan _{type}
Category / Installation situation	A		cat

MAXIMAL DATA

Name	Value		Unit	Formula symbol
	50 Hz	60 Hz		
Max. power consumption (device)	740	1100	w	P _{ed, max}
Max. operating current (device)	4.2	5.2	A	I _{ed, max}
Max. speed	1400	1600	rpm	n _{max}
Max. stat. efficiency	48.4	42.5	p	η _{es}
Max. fan efficiency	52.3	45.5	p	η _e
Max. flowrate	6950	7810	CmH	q _{v, max}
Max. stat pressure	490	590	Pa	p _{sf, max}
Max. medium temperature	80	40	°C	T _{m, max}
Max. environment temperature	80	40	°C	T _{amb, max}
Min. environment temperature	-25	-25	°C	T _{amb, min}
Min. voltage	80	80	v	U _{min}
Stall current	9.4	9.4	A	I _{LRA}



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MOTOR DATA

Name	Value		Unit	Formula symbol
	50 Hz	60 Hz		
Rated frequency (device)		50		f
Motor type		AC 1~		phase
Control type		stepless-controlled		ctrltype
Installation type		IRM (In)		install
Rotation direction		right		rotation
Isolation class		ISO F		ISOclass
Motor-protection		TAO		protectmotor
Protection class		IP54		IPmotor
Is pole-changeable		No		polexch
Type of power supply		AC 1~		pwrsupmotor
Capacity capacitor		16	μF	Ccond
Voltage capacitor		420	v	VUcond
Number of poles (1)		4.000000		num polesw1
Rated voltage	230	240	v	Urated, f1
Rated current	3.7	3.7	A	Irated, f1
Nominal power	520	520	w	Pa
Speed	1300	1600	rpm	nr1
UL-Certification motor		UL recognized		UL.cert

ERP DATA (LOT11)

Name	Value	Unit	Formula symbol
Speed at the energy efficiency optimum	1352	rpm	n _{opt}
Efficiency level	48.7	p	N
Efficiency category	statisch		catefficiency
Input power of the motor at the energy efficiency optimum	0.75	kw	P _{e, opt}
Overall efficiency	60.5	p	η _{ges}
Measurement category	A		meas cat
Fan pressure at energy efficiency optimum	302	Pa	p _{f, opt}
Flowrate at energy efficiency optimum	4736	CmH	Q _{v, opt}

SMOKE EXTRACT DATA

Name	Value	Unit	Formula symbol
Fire resistance class	None		Fclass

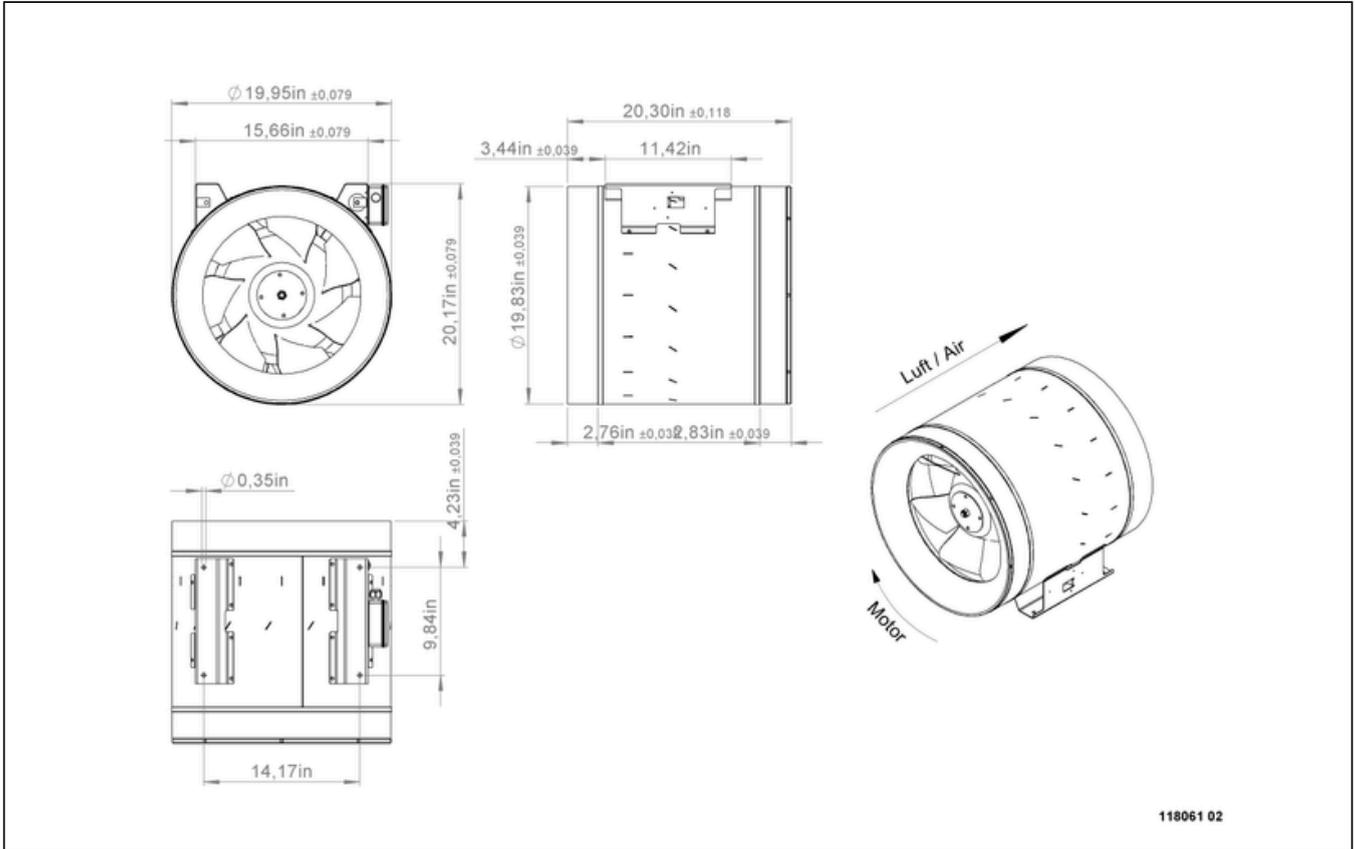


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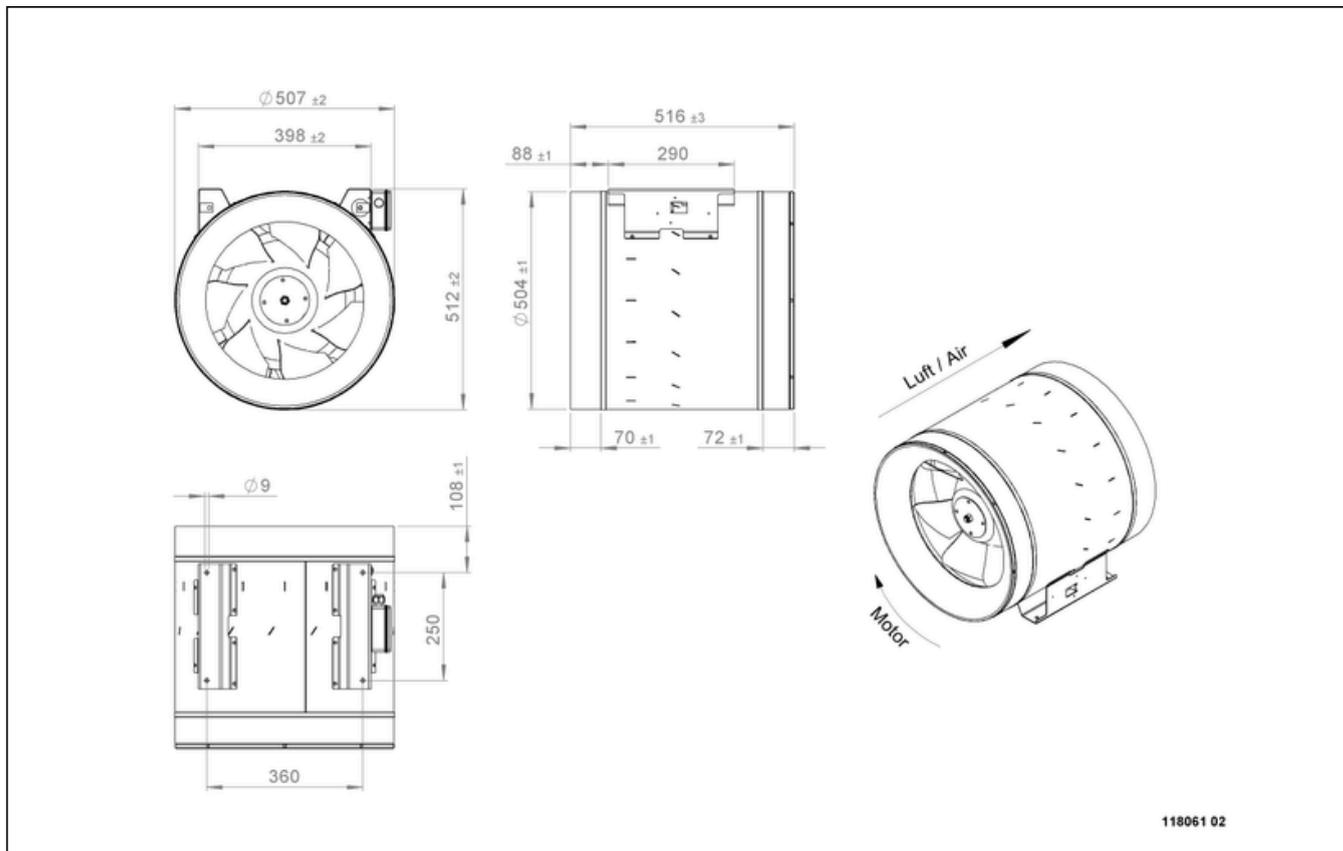
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CIRCUIT DIAGRAMS / DIMENSIONAL DRAWINGS



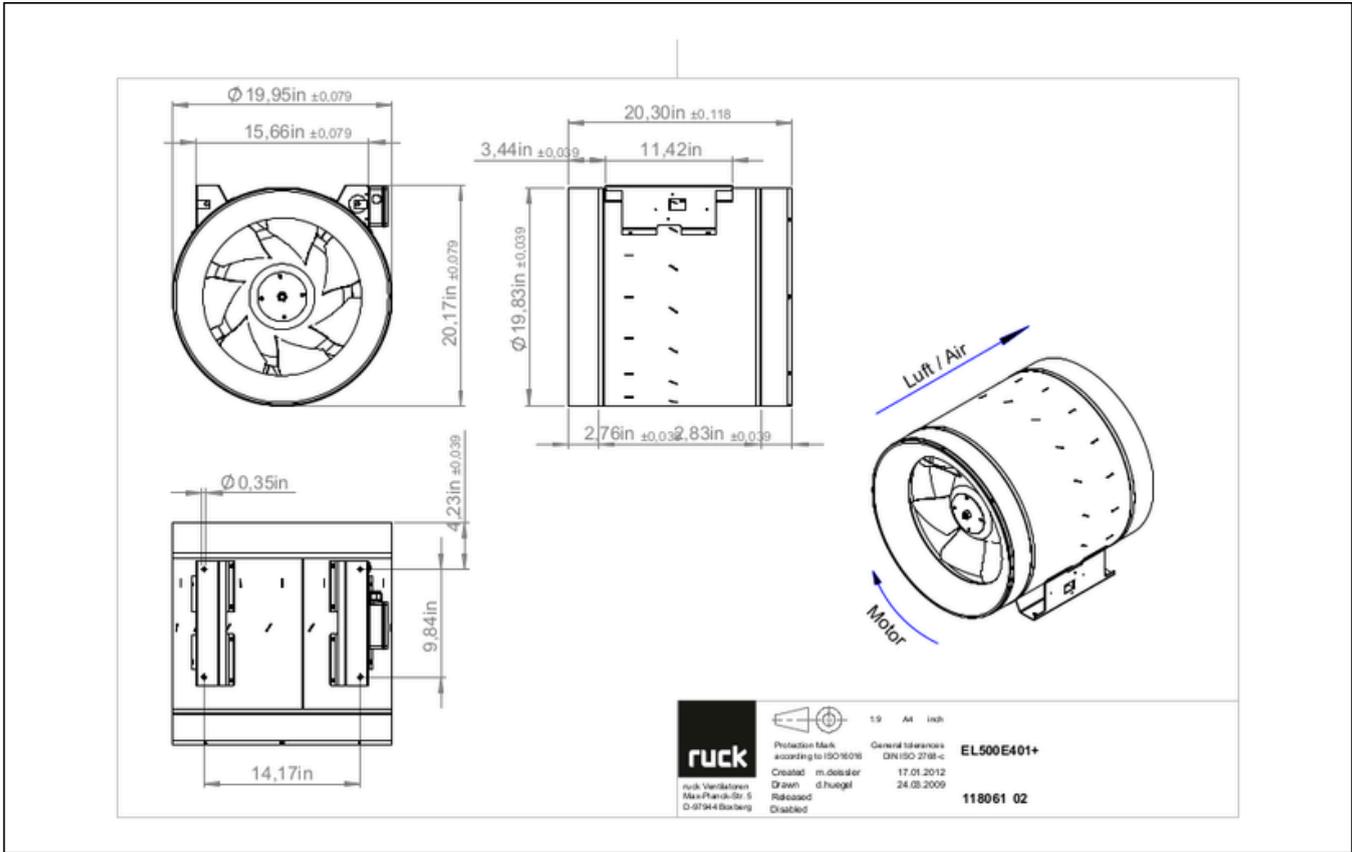
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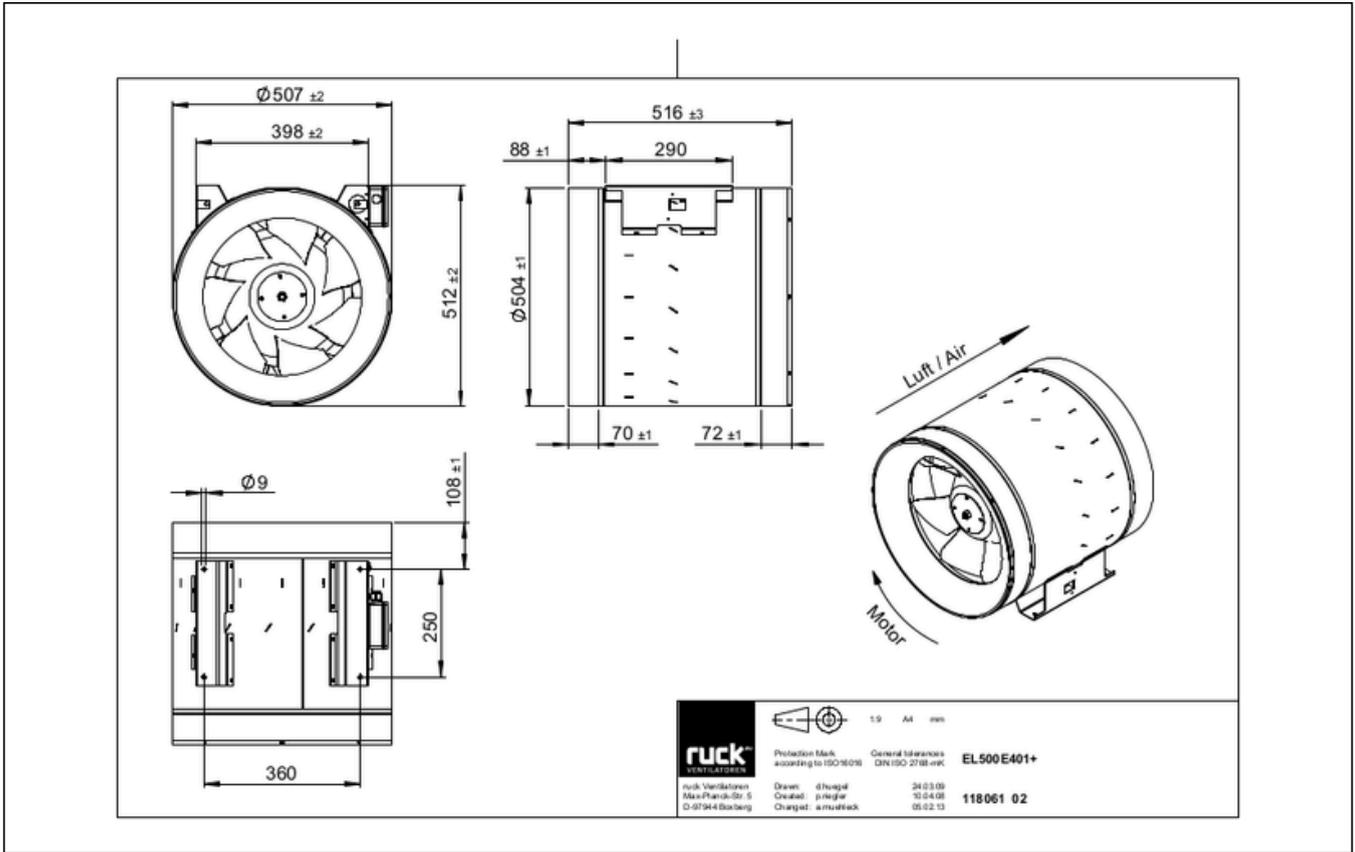
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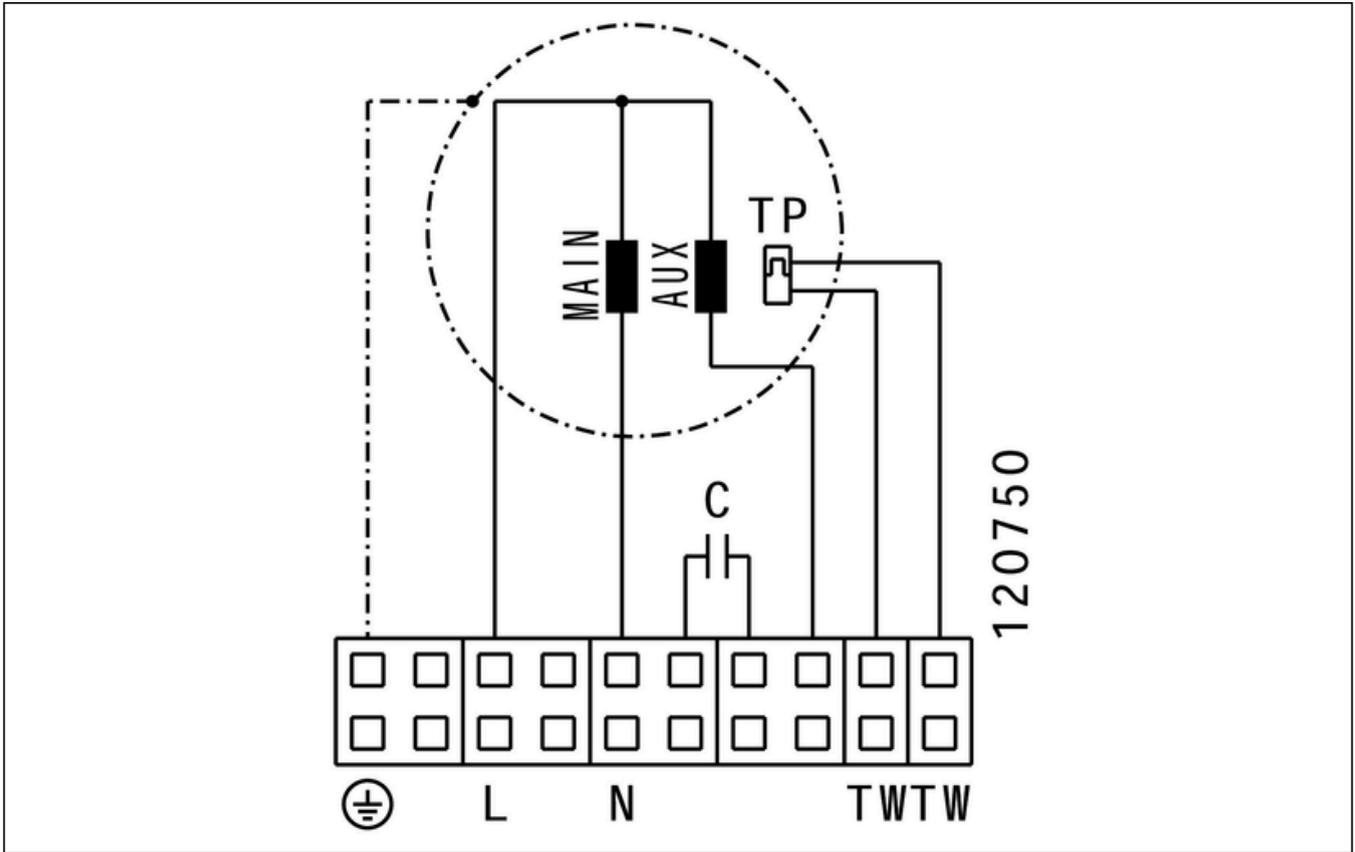
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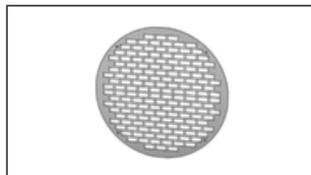
MECHANICAL ACCESSORIES

VM 500 | 118094



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

SG 500 02 | 119191



- Inlet protection grille for Etaline
- Galvanized steel sheet

SDS 500 | 172912



- Rigid tube silencer
- Galvanized steel sheet
- Sound insulation packing 50 mm (mineral wool)



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ELECTRICAL ACCESSORIES

GS 01 | 102787



- Isolator switch
- U_{max} = 400 V, 50/60 Hz
- Switching capacity 400 V 3~ = 7,5 kW
- I_{max} = 25 A

TEM 050 | 103519



- 5-step transformer
- 230 V, 50/60 Hz, 5 A
- Output voltage: 230-190-170-140-110-80-0 V
- Protection class IP 54

TES 050 02 | 146196



- 5-step transformer
- 230 V, 50/60 Hz, 5 A
- Without housing, control cabinet installation
- Protection class IP 20



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