8.2 AC-supply 1-phase, fixed

AC and AC/DC-supply 1-phase

		Technical Data	Order no.
AC-supply 1-phase 3HU / 36HP Installable into 3HU power duct		 Insert plate with 4 Schuko sockets 230V 1 Schuko socket with line filter 230V / 4A, high attenuation 1 illuminated rocker switch 	44-1K
AC-supply 1-phase 3HU / 24HP	AC Power Supply (44-11	Insert plate with 4 Schuko sockets	44-1L
		as with type 44-1L with Swiss sockets	44-1L ZC00
installable into 3HU power duct		as with type 44-1L with Danish sockets	44-1L ZD00
		as with type 44-1L with French sockets	44-1L ZF00
		as with type 44-1L with British sockets	44-1L ZG00
		as with type 44-1L with USA sockets	44-1L ZU00
AC-supply 1-phase 3HU / 36HP Installable Into SHU power duct		Insert plate with 5 Schuko sockets 1 illuminated rocker switch	44-1L Z817
AC-supply 1-phase 3HU / 36HP Installable into 3HU power duct	Shara haki kid	 Insert plate with floating alternating current voltage 230V / 100VA 1 illuminated rocker switch 1 thermal magnetic circuit breaker 1 transformer with separated coils 1 socket without earth contact 	44-4B
AC-supply 1-phase 3HU / 36HP		 Insert plate with floating extra-low alternating current 2, 4, 6, 8, 10, 12V / 10A 1 illuminated rocker switch 1 transformer with separated coils 3 thermal magnetic circuit breakers 4 laboratory safety sockets 	44-4C
		as 44-4C with floating extra-low alternating current 6, 12, 18, 24, 36, 42V / 3A	44-4D
Laboratory safety sockets 3HU / 12HP	und und und und und und und und und und	Insert plate with mains voltage L / N / PE ~ 50Hz with 3 aboratory safety sockets L1, N, PE	44-1W
Adjustable AC/DC-supply 3HU / 36HP		Eurocassette with floating extra-low alternating current voltage 6, 12, 18, 24, 30, 36 and 42V / 3A 1 externally switchable bridge rectifier (B2) 4 thermal magnetic circuit breakers 9 laboratory safety sockets 1 illuminated rocker switch	44-1B

AC-supply 1-phase

Elabo plates and inserts with floating alternating current voltage can be used in many ways – e.g. for measurements of inductivities and capacities, in production test rooms or as floating voltage supply systems for training, servicing and development.

				Technical data	Order no.
AC-supply 1-phase 6HU / 1BE	2 Terre lage (31)	Structure (St)	Deputer20	Insert plate for supplying with alternating current voltage 230V AC / 16A	32-1.1
			Elentary	3 Schuko sockets, 3 laboratory safety sockets L1, N, PE	32-1M
			°	2 Schuko sockets, 1 emergency-off mushroom button, non-wired	32-1P
AC-supply 1-phase 6HU / 1BE				 Insert plate for supplying with floating extra-low alternating current voltage 2, 4, 6, 8, 10, 12V AC / 10A 4 laboratory safety sockets for drawing extra-low alternating current voltages 3 circuit breakers 1 illuminated rocker switch 	32-1E
AC-supply 1-phase 6HU / 1BE				 Insert plate for supplying with extra-low alternating current voltage 6, 12, 18, 24, 36, 42V AC / 3A 4 laboratory safety sockets for drawing extra-low alternating current voltages 3 circuit breakers 1 illuminated rocker switch 	32-1F
AC-supply, 1-phase with line filter 6HU / 1BE				 Insert plate for supplying with filtered alternating current voltage 1 Schuko socket for drawing mains voltage 230V / 16A 1 Schuko socket for drawing alternating current voltage through line filter with high attenuation 230V / 16A (line filters with special technical data upon request) 1 fine wire fuse 1 illuminated rocker switch 	32-1R
AC-supply 1-phase 6HU / 1BE				 Insert plate for supplying with alternating current voltage 230V AC / 100VA 1 socket without earth contact for drawing 230V / 100VA, floating 1 isolating transformer 1 Schuko socket for drawing alternating current voltage 1 circuit breaker 1 illuminated rocker switch 	32-1S
AC-supply 1-phase 6HU / 2BE				 Insert for supplying with alternating current voltage 230V AC 5 Schuko sockets and 3 laboratory safety sockets for drawing mains voltage 230V / 16A 1 socket without earth contact for drawing 230V / 3A, floating 1 circuit breaker 1 illuminated rocker switch 	33-0D

8.3 AC-supply1-phase, adjustable

AC- und AC/DC-supply 1-phase

	Technical data	Order no.
AC/DC-supply 1-phase 3HU / 84HP Installable into 9HU power duct	Insert plate with floating direct current and alternating current voltage 024V / 4A with analogue displays 1 voltmeter 1 ammeter 1 transformer with separated coils 1 economy variable transformer 1 thermal magnetic circuit breaker 1 illuminated rocker switch 2 laboratory safety sockets	44-4F
AC-supply 1-phase 3HU / 84HP	 Insert plate with non-floating alternating current voltage 0260V / 1A and mains voltage 1/N/PE ~ 50Hz illuminated rocker switch economy variable transformer thermal magnetic circuit breaker laboratory safety sockets Schuko sockets 	44-4K
AC-supply 1-phase 3HU / 84HP	Insert plate with non-floating alternating current voltage 0260V / 1A and mains voltage 1 / N / PE ~ 50Hz with analogue displays 1 illuminated rocker switch 1 economy variable transformer 1 thermal magnetic circuit breaker 1 voltmeter 1 ammeter 3 laboratory safety sockets 2 Schuko sockets	44-4L
AC/DC-supply 1-phase 3HU / 84HP	Insert plate with non-floating direct current and alternating current voltage 0260 V / 1A and mains voltage 1 / N / PE ~ 50Hz 1 illuminated rocker switch 1 economy variable transformer 1 thermal magnetic circuit breaker 6 laboratory safety sockets 2 Schuko sockets	44-4M
AC-supply 1-phase 3HU / 76HP	Insert plate with non-floating alternating current volt- age 0260V / 2A and floating extra-low voltages 012V / 12A, 024V / 6A with externally switchable bridge rectifier 1 illuminated rocker switch 1 economy variable transformer 1 transformer with separated coils 3 thermal magnetic circuit breakers 10 laboratory safety sockets 1 bridge rectifier	44-4N
AC-supply 1-phase 3HU / 76HP	Insert plate with non-floating alternating current 0260 V / 2 A and floating low-level voltages 06 V / 15 A, 018 V / 6 A, 042 V / 3A with externally switchable bridge rectifier 1 illuminated rocker switch 1 economy variable transformer 1 transformer with separated coils 4 thermal magnetic circuit breakers 11 laboratory safety sockets 1 bridge rectifier	44-4P

Eurocassette for AC and AC/DC-supply

Elabo eurocassettes with direct current and alternating current voltage for supplying devices in the laboratory and in the test room. Voltage setting by means of a ring core variable transformer with rotary knob, analogue moving armature instruments installed with effective value display.

	Technical Data	Order no.
AC-supply 1-phase with isolating transform 3HU / 36HP	Eurocassette with floating, adjustable alternating current voltage 0260 V / 0.8A 1 analogue voltmeter 0300V 1 analogue ammeter 01A 1 thermal magnetic circuit breaker 1 socket without earth contact 1 illuminated rocker switch	44-1D
Adjustable AC-supply 3HU / 36HP	Eurocassette with floating, adjustable alternating current voltage 0260V / 3A Load: 03A, transient 4A across the entire setting range 1 analogue voltmeter 0300V 1 analogue ammeter 04A 1 thermal magnetic circuit breaker 1 socket without earth contact 1 illuminated rocker switch	44-1M
Adjustable AC-supply 3HU / 52HP	Eurocassette with floating alternating current voltage 0260V / 0.8A, can be switched to direct current 0260V / 0.8A, RW 48% 1 voltmeter 0300V 1 ammeter 01A 1 toggle switch 1 thermal magnetic circuit breaker 2 laboratory safety sockets 1 illuminated rocker switch	44-1E
AC-supply 3-phase 3HU / 66HP	Eurocassette with floating alternating current voltage 030V / 4A, can be switched over to direct current 030V / 4A, RW 48% 1 voltmeter 0 30 V 1 ammeter 0 4A 1 toggle switch 1 thermal magnetic circuit breaker 2 laboratory safety sockets 1 illuminated rocker switch	44-1G
AC/DC-supply 3HU / 24HP	Eurocassette with continuously adjustable direct current and alternating current voltage. 0260V / 2A non-floating 042V / 3A floating 06V / 6A floating 06V / 15A floating 1 externally switchable bridge rectifier (B2) 4 thermal magnetic circuit breakers 10 laboratory safety sockets 1 illuminated rocker switch	44-1F

Eurocassette for AC and AC/DC-supply

	Technical data	Order no.
Adjustable AC/DC-supply 3HU / 52HP	Eurocassette with continuously adjustable floating alternating current voltage 0260V / 3A or 050V / 10A can be switched over to DC with RW 48% 0260V / 3 A or 050V / 10A 1 voltmeter 1st range 0 300V 2nd range 0 50V 1 ammeter 1st range 0 4A 2nd range 0 10A Additional protection function: When switching from direct current to alternating current voltage or from mains voltage to extra-low voltage or vice-versa, the load must be unplugged and then replugged at the laboratory safety sockets. 2 thermal magnetic circuit breakers 2x 3 laboratory safety sockets 1 illuminated rocker switch	44-1P
Adjustable AC-stabiliser 3HE / 66HP	 Eurocassette with floating alternating current voltage 2260V / 2A. Electromotive stabilisation with tracking controller and setpoint potentiometer. 1 digital display 4-digit for voltage 1 digital display 4-digit for current switch-selectable active power 1 rocker pushbutton switch for output on/off Output to 2 safety lab terminals 	44-5M

Adjustable AC-supply

	Technical Data	Order no.
AC-supply 1-phase 6HU / 2WU	Adjustable, non-floating alternating current voltage 0260V AC / 12.5A 1 analogue voltmeter 0300V 1 analogue ammeter 015A Load: 12.5A, transient 15A across the entire setting range 1 Schuko socket for drawing 0260V / 012.5A non-floating 1 PE laboratory safety socket 2 circuit breakers 1 illuminated rocker switch	35-2C
	0260V / 3A with analogue voltmeter and ammeter 1 Schuko socket, 1 laboratory safety socket	35-2A
	0260V / 5A with analogue voltmeter and ammeter 1 Schuko socket, 1 laboratory safety socket	35-2B
AC-supply 1-phase 6HU / 2WU	Adjustable, floating alternating current voltage 0260V AC / 3A 1 digital voltmeter 0300V 1 digital ammeter 04A Load: 3A, transient 4A across the entire setting range 1 socket without earth contact 1 circuit breaker 1 illuminated rocker switch	35-3E
	0260V / 5A floating with analogue voltmeter and ammeter socket without earth contact	35-3F
AC-supply 1-phase 6HU / 2WU	Adjustable, floating alternating current voltage 0260V AC / 3A 1 analogue voltmeter 0300V 1 analogue ammeter 04A Load: 3A, transient 4A across the entire setting range 1 socket without earth contact 1 circuit breaker 1 illuminated rocker switch	35-2E
	0260V / 800W floating with analogue voltmeter and wattmeter socket without earth contact	35-2G
	0260V / 5A floating with analogue voltmeter and ammeter socket without earth contac	35-2F
	0260V / 1500W floating with analogue voltmeter and wattmeter socket without earth contact	35-2H
	0260V / 12A floating with analogue voltmeter and ammeter socket without earth contact	35-2J

Adjustable AC-stabiliser

With the adjustable AC-stabilisers, the stabilisation of the alternating current voltage takes place electromechanically: variable transformer with motor drive, electronic stabilisation unit and downstream isolating transformer. With an output voltage of $U_{nominal}$, stability is rated at 260V ± 2V. The output voltage can be be set precisely by means of a ten turn potentiometer. The control time is approx. 0.5s with a network voltage fluctuation of 10%.

	Technical data	Order no.
AC-stabiliser 6HU / 2WU	 Adjustable, non-floating alternating current voltage 2260V / 12A Electromechanical stabilisation with tracking controller and setpoint potentiometer 1 4-digit digital display for voltage 1 4-digit digital display for current switch-selectable active power 1 rocker pushbutton switch for output on/off Output parallel on Schuko and laboratory safety sockets 	35-5C
AC-stabiliser 6HU / 2WU	 Adjustable, floating alternating current voltage 2260V / 5A Electromechanical stabilisation with tracking controller and setpoint potentiometer 4-digit digital display for voltage 4-digit digital display for current switch-selectable active power rocker pushbutton switch for output on/off Output can be switched to one socket without earth contact or to 2 laboratory outlets 	35-5H
AC-stabiliser 6HU / 2WU	 Adjustable, stabilised, floating alternating current voltage 1.5260V AC / 3A 1 analogue voltmeter 0300V 1 analogue ammeter 04A Load: 03A across the entire setting range Stabilisation: V_{nom} ± 2V Actuating time: approx. 0.5s with 10% mains voltage change 1 socket without earth contact 1 motor-driven variable transformer with separated coils and electronic stabilisation unit for maintaining constant voltage in accordance with the electromechanical principle 2 circuit breakers 1 illuminated rocker switch 	35-2M
	as with type 35-2M, but 1.5260V AC / 6A 1 analogue ammeter 06A	35-2N

Power generators

All power generators provide an adjustable, stabilised alternating current voltage or 3-phase alternating current (5...400V) with adjustable frequency (45Hz...400Hz). They are used for testing, repair and maintenance of components and devices which are operated with a dedicated network voltage – e.g. in air and sea travel. They are also used as alternating current-stabilisers for networks with special frequencies.

	Technical Data	Order no.
Power generator 1-phase 6HU / 2WU	 Single-phase power generator with stabilised alternating current voltage 5265V AC / 220VA 1 analogue voltmeter 0300V 1 analogue ammeter 01A 1 digital frequency display 3-digit, resolution 0.1Hz Output voltage: 5265V Output power: 220VA with maximum output voltage Frequency: 50Hz crystal stable, can be switched over to 45400Hz (not crystal stable) 2 laboratory safety sockets 1 ten turn helical potentiometer for voltage adjustment 1 overload protection 1 illuminated rocker switch 	35-2S
Power generator 1-phase 6HU / 2WU	 Single-phase power generator with stabilised alternating current voltage 5135V AC / 220VA 1 analogue voltmeter 0150V 1 analogue ammeter 02A 1 digital frequency display 3-digit, resolution 0.1Hz Output voltage: 5135V Output power: 220VA with maximum output voltage Frequency: 60Hz crystal stable, can be switched over to 4575Hz (not crystal stable) 2 laboratory safety sockets 1 ten turn helical potentiometer for voltage adjustment 1 overload protection 1 illuminated rocker switch 	35-2V
Power generator 1-phase 6HU / 4WU	 Single-phase power generator with stabilised alternating current voltage 5265V AC / 500VA 1 analogue voltmeter 0300V 1 analogue ammeter 02A 1 digital frequency display 3-digit, resolution 0.1Hz Output voltage: 5265V Output power: 500VA with maximum output voltage Frequency: 50Hz crystal stable, can be switched over to 45400Hz (not crystal stable) 2 laboratory safety sockets 1 ten turn helical potentiometer for voltage adjustment 1 ten turn helical potentiometer for frequency adjustment 1 overload protection 1 illuminated rocker switch 	35-2U

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Power generators

	Technical data	Order no.
Power generator 1-phase 6HU / 4WU	 1-phase power generator with stabilised alternating current voltage 5135V AC / 500VA 1 analogue voltmeter 0150V 1 analogue ammeter 04A 1 digital frequency display 3-digit, resolution 0.1Hz Output voltage: 5135V Output power: 500VA with maximum output voltage Frequency: 60Hz crystal stable, can be switched over to 4575Hz (not crystal stable) 2 laboratory safety sockets 1 ten turn helical potentiometer for voltage adjustment 1 ten turn helical potentiometer for frequency adjustment 1 overload protection 1 illuminated rocker switch 	35-2W

Adjustable AC/DC-supply

These inserts provide alternating current voltage which can be continuously adjusted, starting from 0, and can be switched over to direct current. Moving armature instruments with effective value displays are installed for current and voltage measurement. The voltage adjustment is accomplished by means of a variable transformer. The pulsating direct current exhibits a ripple of 48 %. All devices are equipped with an AC/DC selection switch and can also be obtained with digital displays upon request.

	Technical Data	Order no.
AC/DC-supply 6HU / 2WU	Insert for supplying with floating alternating current voltage or direct current AC: 060V / 8A, can be switched over to DC with 060V / 8A Effective ripple of the direct current approx. 48% 1 analogue voltmeter 060V 1 analogue ammeter 010A 2 laboratory safety sockets 1 rotary knob for adjusting the voltage 1 changeover switch from alternating current volt- age to direct current 1 circuit breaker 1 illuminated rocker switch	35-0D
	Alternating current voltage 0260V / 3A Direct current 0260V / 3A analogue voltmeter analogue ammeter 2 laboratory safety sockets	35-0E
	Alternating current voltage 0260V / 5A Direct current 0260V / 5A analogue voltmeter analogue ammeter 2 laboratory safety socketsw	35-0F
AC/DC-supply 6HU / 2WU	Insert for supplying with floating alternating current voltage or direct current AC/DC 0 260V / 3A, can be switched over to 050V / 3A Effective ripple of the direct current approx. 48% 1 analogue voltmeter 1st range 0300V 2nd range 050V 1 analogue ammeter 04A 2 laboratory safety sockets 1 rotary knob for adjusting the voltage 1 changeover switch from alternating current voltage to direct current 1 changeover switch 50 / 260V 1 circuit breaker 1 illuminated rocker switch	35-0G
AC/DC-supply 6HU / 2WU	 Insert for supplying with floating alternating current voltage or direct current, as with type 35-0E, but with additional extra-low alternating current voltages 2, 4, 6, 8, 10 and 12V / 10A. thermal circuit breakers thermal magnetic circuit breaker changeover switch from alternating current voltage to direct current illuminated rocker switch 	35-0H
	floating extra-low alternating current voltage 6, 12, 18, 24, 36, 42 V / 3A Direct current 0260 V / 3A analogue voltmeter analogue ammeter 2 laboratory safety sockets	35-0J

Adjustable AC/DC-supply

	Technical data	Order no.
AC/DC-supply 6HU / 2WU	Insert for supplying with floating alternating current voltage or direct current and additional protective function (forced replugging of the load).AC/DC 0 260V / 3A, can be switched over to 050 V / 10 A1 analogue voltmeter1st range0300V 	35-0K
AC/DC-supply 6HU / 2WU	Insert for supplying with floating alternating current voltage in the ranges: 0260V / 3A 042V / 6A 012V / 15A 1 freely switchable rectifier (B2 - 300V / 16A) for rectifying the alternating current voltages Ripple of the rectified voltages: approx. 48% 1 rotary knob for adjusting the voltage 8 laboratory safety sockets 3 circuit breakers 1 illuminated rocker switch	35-0L

8.4 AC-supply3-phase, fixed

AC-supply

		Technical data	Order no.
CEE socket 3HU / 24HP	Naging 1-1 64-20 Ministry Mini	Insert plate with mains voltage 3 / N / PE ~ 50Hz with 1 CEE socket	44-2C
		Insert plate with mains voltage 3 / N / PE ~ 50Hz with 1 CEE socket 5 laboratory safety sockets L1, L2, L3, N, PE	44-2C Z001
Laboratory safety sockets 3HU / 12HP		Insert plate with mains voltage 3 / N / PE ~ 50Hz with 5 laboratory safety sockets L1, L2, L3, N, PE	44-1X

		Technical Data	Order no.
AC-supply 1-phase 3HU / 36HP	All man happy (4d)	 Insert plate with floating 3-phase alternating current supply 3 ~ 10 / 17.3V 5A 1 rotary switch I/0 3 glow lamps 1 3-phase current transformer with fine wire fuses 3 circuit breakers 4 laboratory safety sockets 	44-4E
AC-supply 1- and 3-phase 6HU / 2WU		 Insert for supplying with 3-phase alternating current and alternating current voltage 1 CEE socket and 5 laboratory safety sockets for drawing 3-phase alternating current 3 Schuko sockets for drawing alternating current voltage 1 socket without earth contact for drawing 230V / 1A, floating 1 isolating transformer 230VA 1 circuit breaker 1 A 1 illuminated rocker switch 	33-0A
		 as with type 33-0A, but with technical data: socket without earth contact for drawing 230V / 3A, floating isolating transformer 690VA circuit breaker 3A illuminated rocker switch 	33-0B
AC-supply 1- and 3-phase 6HU / 2WU		 Insert for supplying with non-floating 3-phase alternating current 3 / N / PE 400V AC / 6A / 50Hz 1 voltmeter 0400V, can be switched to outer conductor / outer conductor or outer conductor / neutral conductor via changeover switch 1 ammeter 06A, can be switched on via changeover switch in any phase 1 CEE socket 5 laboratory safety sockets for drawing 3-phase alternating current 1 Schuko socket 3 circuit breakers 3 external conductor indicator lamps 1 Off switch 	36-0F
AC-supply 1- and 3-phase 6HU / 4WU		 Insert for supplying with non-floating 3-phase alternating current 230 / 400V 16A delta or wye with analogue displays 1 rotary switch I/0 1 rotary switch 0 / delta / wye 3 glow lamps 1 rotary switch, 6-stage 1 voltmeter analogue 0400V, moving armature Class 1.5 3 ammeter analogue 015A with 45A overload scale, moving armature Class 1.5 1 CEE socket 5p380V16AB 5 laboratory safety sockets L1/U1, L2/V1, L3/W1, N, PE 3 laboratory safety sockets 3 laboratory safety sockets 	36-0E

AC-supply

	Technical data	Order no.
AC-supply 1- and 3-phase 6HU / 1WU	Insert plate for supplying with floating 3-phase alternating current 3 ~ 23 / 40V / 3A 4 laboratory safety sockets for drawing 3-phase alternating current 3 circuit breakers 3 external conductor indicator lamps 1 rotary switch 1 3-phase current transformer with fine wire fuses	32-1G
AC-supply 1- and 3-phase 6HU / 1WU	Insert plate for supplying with non-floating 3-phase alternating current 3 / N / PE ~ 50Hz 230 / 400V 16 A 5 laboratory safety sockets for drawing 3-phase alternating current 3 external conductor indicator lamps 1 Off switch	32-1H
AC-supply 1- and 3-phase 6HU / 1WU	 Insert plate for supplying with 3-phase alternating current 1 CEE socket 16A and 5 laboratory safety sockets L1, L2, L3, N, PE for drawing 3-phase alternating current 1 Schuko socket for drawing alternating current voltage 	32-1L

8.5 AC-supply3-phase, adjustable

AC-supply 3-phase

Elabo eurocassettes with direct current and alternating current voltage for supplying devices in the laboratory and in the test room. Voltage setting by means of a ring core variable transformer with rotary knob, analogue moving armature instruments installed with effective value display.

	Technical data	Order no.
AC-supply 3-phase 3HU / 66HP	 Eurocassette with non-floating 3-phase alterna-ting current 0400V / 3A with analogue displays 1 illuminated pushbutton switch 3 external conductor indicator lamps 1 3-phase ring core variable transformer with economy coil 3 circuit breakers, 1-pin, 3A 1 moving armature voltmeter 0-400V, Class 2.5 1 voltmeter changeover switch 1 moving armature ammeter 04A Class 2.5 1 ammeter changeover switch 5 laboratory safety sockets 	44-1R
AC-supply 1- and 3-phase 6HU / 2WU	 Adjustable, non-floating 3-phase alternating current 3 / N / PE 0400V AC / 2A, transient to 2.5A 1 voltmeter 0400V, can be switched to outer conductor / outer conductor or outer conductor / neutral conductor via changeover switch 1 ammeter 02.5A, can be switched to every outer conductor via changeover switch 5 laboratory safety sockets L1, L2, L3, N, PE 3 external conductor indicator lamps 1 Off switch 	36-0D
AC-supply 1- and 3-phase 6HU / 4WU	 Adjustable, non-floating 3-phase alternating current 3 / N / PE 0400V AC / 5A, transient 6A with analogue displays and mains voltage 1 / N / PE ~ 50Hz 230V 16A 1 rotary switch I/0 3 glow lamps 1 economy variable transformer for 3-phase current 1 mains/transformer rotary switch 3 circuit breakers TMT5A 3 ammeters, analogue 06A, moving armature Class 1.5 1 rotary switch, 6-stage 1 voltmeter analogue 0400V, moving armature Class 1.5 1 CEE socket 5-pin 400V/16 A 5 laboratory safety sockets 1 Schuko socket 230 V 16 A 3 laboratory safety sockets 	36-0A
	as with type 36-0A, but with output current up to 8A, transient up to 10A 3 ammeters 010A	36-0B
	similar to type 36-0A, 3 / N / PE 0290/500V AC / 4A 1 voltmeter 0500V 3 ammeters 06A 3 circuit breakers 1-pin K 4A	36-0C

Power generator, AC-supply

	Technical Data	Order no.
Power generator 3-phase 6HU / 4WU	 Insert with 3-phase power generator 500VA 1 analogue voltmeter 0200V 1 analogue ammeter 015A 1 digital frequency display 3- or 4-digit, resolution 0.1Hz Output voltage: 3 x 5115 / 200V Output power: 500VA with maximum output voltage Frequency: 400Hz crystal stable, can be switched over to 45400Hz (not crystal stable) 4 laboratory safety sockets for drawing the stabilised 3-phase alternating current 3 x 5115 / 200V / 500VA 1 ten turn helical potentiometer for voltage adjustment 1 ten turn helical potentiometer for frequency adjustment 1 overload protection 1 illuminated rocker switch The programming can be altered to allow the user to switch between an anti-clockwise rotating field or a clockwise rotating field. The utilisation options of the device can be expanded with phase shift – e.g. as a bridge amplifier (option). 	35-2T
AC-supply 6HU / 4WU	 Insert with non-floating 3-phase alternating current 0230 / 400V / 5A (transient 6A) with electromotive control for variable voltage adjustment 1 CEE socket 16 A 5 laboratory safety sockets 1 Schuko socket 3 laboratory safety sockets 3 phase monitoring lamps 1 ten turn potentiometer for manual adjustment of the output voltage 1 rocker pushbutton switch for switching off the output voltage The following measurement values can be selected for display by means of a multi-function display feature: Neutral conductor current, active power measurement (W), idle power measurement (VA), power factor measurement (cos phi), frequency. 	36-5A
	as with 36-5A with 2 Ethernet interfaces for remote control	36-5A Z102

AC/DC-supply 3-phase

	 Technical data	Order no.
AC/DC-supply 6HU / 4WU	 Insert with continuously adjustable, non-floating 3-phase alternating current and direct current with 5% RW 3-phase alternating current: 3 / N / PE 0400 V AC / 8A can be switched over to direct current: 0500V / 10A, ripple approx. 5% effective 1 analogue voltmeter 0500V 2 analogue voltmeters 010A 1 rotary knob for adjusting the voltage 1 changeover switch for 3-phase alternating current and direct current 1 voltmeter changeover switch – can be switched to outer conductor/outer conductor or to outer conductor / neutral conductor, as well as into the direct voltage circuit 1 5-pin CEE socket 1 Schuko socket for variable voltage 5 laboratory safety sockets L1, L2, L3, N, PE 3 laboratory safety sockets for direct current 1 protective earth wire laboratory socket 3 circuit breakers 3 external conductor indicator lamps 1 4-pin Off switch 	36-1C
	as with 36-1C, but with 3-phase alternating curre nt: 3 / N / PE 0400 V AC / 5 A / 50 Hz, can be switched over to direct current: 0500V / 6A, 1 3-phase ring core variable transformer	36-1A
AC/DC-supply 6HU / 4WU	Insert with continuously adjustable, non-floating 3-phase alternating current and direct current with 18% RW and additional fixed direct current with 48% RW 3-phase alternating current: 3 / N / PE 0400V AC / 5A / 50Hz can be switched over to direct current: 0250V / 6A, ripple approx. 18% effective Fixed direct current: 230V / 3A, ripple approx. 48% effective 1 analogue voltmeter 0400V 3 analogue ammeters 1st range 06A 2nd range 01.5A 1 measurement range changeover switch 1.5 / 6A 1 rotary knob for adjusting the voltage 1 changeover switch for 3-phase alternating current or direct current 1 voltmeter changeover switch – can be switched to outer conductor/outer conductor or to outer conductor / neutral conductor, as well as into the direct voltage circuit 1 5-pin CEE socket 1 Schuko socket for variable voltage 5 laboratory safety sockets for variable direct current 2 laboratory safety sockets for variable direct current 1 protective earth wire laboratory socket 3 external conductor indicator lamps 1 4-pin Off switch	36-1D
	as with 36-1D, but with 3-phase alternating current: 3 / N / PE 0400V AC / 8A / 50Hz, can be switched over to direct current: 0250V / 10A, ripple approx. 18% effective Fixed direct current: 230V / 3A, ripple approx. 48%, effective 1 analogue voltmeter 0400V 3 analogue ammeters 1st range 010A; 2nd range 02A	36-1E

Test rooms

The test rooms 36-2A and 36-3A are appropriate for general utilisation at test stations in production and repair operations. The mains connection supplies 3-phase alternating current 3 / N / PE 400V AC / 40A / 50Hz to a labelled serial terminal board. The main switch is designed as a key switch button. The test room is equipped with 3 outer conductor monitoring lamps, 1 control fuse and 16A 3-way automatic devices for the backup rooms in the desk rack. A selection switch with the settings "Mains" - 0 - "Transformer" makes it possible to switch from mains supply to supply with adjustable voltage by means of a transformer (available separately).

Test room insert with three current measurement ranges 6HU / 6WU



Operating modes

operating modes			
"Mains"	The mains voltage is switched directly through the measuring instruments to the drawing terminals or sockets.	Continuity testing:	high-impedance with 230V AC, displayed with 230V glow lamp, low-impedance with 24V AC, displayed
"Transformer"	In this position, the drawing terminals or sockets are fed with continuously adjustable selectable voltage (possible only with variable transformer,		with 24V glow lamp.
	must be ordered separately).	Mains connection:	1 labelled serial terminal board for
Setting:	1 selection switch "Mains or Transformer"		3-phase alternating current 3 / N / PE 400V AC / 40A / 50Hz
Current measuren	nent	Approvals:	1 CEE socket 16A / 5-pin
Preselection:	3 ranges 2A / 10A / 40A, selectable through a pushbutton assembly with mutual actuation.		6 screw-type terminals, 63A, aligned like a terminal board, with 4mm plug-in option
Display:	3 moving armature ammeters with two ranges and dual scale 02A / 010A, each secured with one		W2 U2 V2 L1/U1 L2/V1 L3/W1
	triple circuit breaker (2A and 10A)		2 screw-type terminals 63A N/ PE with
	3 moving armature ammeters 040A with over-		4mm plug-in option
	load scale 120A (switching-current transient).	Main switch:	1 key-operated On button
	Because the switchover takes place without volt-		1 Off button
	age interruption, no switch-on peaks arise. This		1 air-break contactor, 5-pin
	makes it possible to always be able to measure		3 external conductor indicator lamps
	the current exactly, e.g. after the completed	Fuse protection:	1 control fuse
	startup of an electrical motor.		1 triple circuit breaker 16A for the backup panels
Voltmeter		Motor startup:	1 delta-wye switch with
Preselection:	pushbutton selection switch: Min: for lowering the voltage		neutral setting
	Max: for raising the voltage	Options:	insert rectifier 25A 36-2B,
	via the variable transformer which must be		insert rectifier 40A 36-2C,
	ordered separately.		insert polarity reversal panel 36-2D
Display:	1 moving armature voltmeter 0400V can be		
	switched with changeover switch to outer	Note:	the 3-phase current transformer is not
	conductor/ outer conductor or outer		included in the scope of delivery.
	conductor/ neutral conductor.		3-phase current transformer 36-2G or
			3-phase current transformer 36-2H
			each in a separate housing made of steel plating

Order no. 36-2A

Test rooms

Four current ranges can be selected with the test field 36-3A. In the interest of improved legibility, each of these is displayed above large moving coil ammeters with a meter rectifier and linear scale. When used in conjunction with an optional 3-phase variable transformer, the opportunities for error diagnostics with 1-phase and 3-phase test items of all types can be broadened considerably.

Test room insert with four current measurement ranges 6HU / 6WU



Operating modes

"Mains"	The mains voltage is switched directly through the measuring instruments to the drawing terminals or sockets.	Continuity testing:	high-impedance with 230V AC, displayed with 230V glow lamp, low-impedance with 24V AC, displayed with
"Transformer"	In this position, the drawing terminals or sockets are fed with continuously adjustable selectable		24V glow lamp.
	voltage (variable transformer, must be ordered separately).	Mains connection:	1 serial terminal board for 3-phase alternat- ing current 3 / N / PE ~ 50Hz 400V / 40A
Setting:	1 selection switch "Mains" - 0 - "Transformer"	Approvals:	1 CEE socket 5-pin 16A
Current measurem	ient		6 screw-type terminals, aligned like a terminal board
Preselection:	4 ranges 1.5A / 4A / 15A / 40A, selectable through pushbuttons with mutual actuation.		63A with 4mm plug-in option W2 U2 V2
Display:	3 moving coil ammeters 3-pin circuit breakers secure each range. Current and measurement ranges are switched over together. Because the switchover takes		L1/U1 L2/V1 L3/W1 2 screw-type terminals 63 A N / PE with 4mm plug-in option
	place without voltage interruption, no switch-on peaks arise. This makes it possible to measure the current exactly, e.g. after the completed startup of an electrical motor.	Main switch:	 key-operated On button off button air-break contactor, 5-pin external conductor indicator lamps
		Fuse protection:	1 control fuse
Preselection:	pushbutton selection switch:		1 triple circuit breaker 16A for the backup panels
	Min: for lowering the voltage Max: for raising the voltage	Motor startup:	1 delta-wye switch with neutral setting
	via the variable transformer which must be ordered separately.	Options:	insert rectifier 25A 36-2B insert rectifier 40A 36-2C
Display:	1 moving coil voltmeter 0400V with meter rectifier and linear scale, can be switched with		Insert polarity reversal panel 36-2D
	changeover switch to outer conductor / outer conductor or outer conductor / neutral conductor.	Note:	the 3-phase current transformer is not included in the scope of delivery. 3-phase current transformer 36-2G or 3-phase current transformer 36-2H, each in a separate housing made of steel

plating

Auxiliary equipment for test rooms

	Technical Data		Order no.
3-phase variable transformer 6HU	3-phase ring core variable transformer with economy coil and motor drive for the test rooms 36-2A and 36-3A		36-2G
	Rated output: Input: Output: Drive:	17.3kVA 3 / N / PE ~ 50Hz 400V 3 / N / PE 0400V / 25A capacitor motor 230V / 50Hz	
	Housing made of Ia W = 420mm, D = - Protection class IP	acquered steel plating, 405mm, H = 690mm, 20	
3-phase variable transformer 6HU	ase variable transformer3-phase variable transformer with ring core econon coil and motor drive for the test rooms 36-2A and 36-3A.		36-2H
	Rated output: Input: Output: Drive:	27.6kVA 3 / N / PE 230 / 400V AC 3 / N / PE 0230 / 400V / 40A capacitor motor 230V / 50Hz	
	Housing made of la W = 660 mm, D = Protection class IP	acquered steel plating, 410mm, H = 1030mm, 20	
Current limitation 6HU	imitation Inrush current limitation for 3-phase current variable transformer type 36-2G (25A)		36-2E
	A high current pea switched on which cause the upstrear limits the inrush cu in the transformer	k occurs when the transformer is could under certain circumstances n fuses to respond. This apparatus irrent. The combination is installed housing.	
	W = 150mm, D =	100mm, H = 120mm	
Current limitation 6HU	Inrush current limi variable transforme	tation for 3-phase current er type 36-2H (40A)	36-2F
	W = 150mm, D =	100mm, H = 120mm	
Stabilisation unit for 3-phase current transformer 6HU	The output voltage with changing load The stabilisation un constant at approx Manipulating spee The setpoint poten plate of the test ro	e of the transformers fluctuates ls. hit holds the output voltage . ± 2%. d: approx. 100V / s itiometer is located on the front om.	36-2K

Application: Limitation of the startup current, testing of stators and rotors in dismantled state, error diagnostics, e.g. as with short-circuited coils. All variable transformers can be loaded with the maximum amount of current across the entire setting range. Driven by a capacitor motor. 3 Neozed elements are installed as fuses. The transformers are each equipped with a 5m connection cable for connection to the test room inserts. You will find our motor test bay on page 124 onwards.

If a fixed or an adjustable direct current is required for testing, then an additional insert for direct current supply can be utilised here. This insert is fed from the laboratory terminals U1 - V1 - W1 of the testing insert 36-2A or 36-3A in conjunction with the utilisation of a 3-phase ring core variable transformer. In addition to the function of supplying direct current, extensive testing can also be implemented with this configuration.

	Technical data	Order no.
Rectifier insert 6HU / 2WU	 Insert with rectifier in DB(B6) switching. Input: 3 × 0400V AC / 50Hz Output: 0500V / 25A DC 1 moving coil voltmeter 0500V 1 moving coil ammeter 025A Ripple of the direct current: approx. 5% with 3-phase current connection approx. 48% with alternating current connection 3 screw-type terminals 63A for feeding the alternating current voltage with 4mm plug-in option 2 screw-type terminals 63A for drawing the direct current with 4mm plug-in option 1 PE-screw-type terminal 	36-2B
Rectifier insert 6HU / 2WU	 Insert with rectifier in DB(B6) switching. Input: 3 / N / PE 0400V AC / 50Hz Output: 0500V / 40A DC Moving coil voltmeter 0500V Moving coil ammeter 040A Ripple of the direct current: approx. 5% with 3-phase current connection approx. 48% with alternating current connection 3 screw-type terminals 63A for feeding the alternating current voltage with 4mm plug-in option 2 screw-type terminals 63A for drawing the direct current with 4mm plug-in option 1 PE-screw-type terminal 	36-2C
Pole reverser 6HU / 2WU	 Insert with 1 Dahlander pole reverser 40A 6 screw-type terminals 63A, aligned like a terminal board aligned with 4mm plug-in option 1 CEE socket 5-pin 32A 1 PE screw-type terminal The insert is pre-wired with the test rooms 36-2A or 36-3A. 	36-2D
Voltage and current transmitter 3-phase 6HU / 4WU	 Insert with floating, 3-phase voltage and current transmitter for application in the area of EVU wor shops. The insert is used not only for checking voltage and current relays, but also overvoltage, over rent and bimetallic relays. Floating current transmitter variable transformers with downstream current transformers Current setting range: 015A No-load voltage: 010V 3x 2 laboratory safety sockets, designated I1, I2, ammeters 015A (moving armature instrumer class 1.5) overcurrent displays Floating voltage transmitter variable transformers Secondary voltage: 0260V Load current: maximum 0.8A thermal magnetic circuit breakers for fusing o the secondary side 3x 2 laboratory safety sockets, designated U1, U2, U3 voltmeters 0300V (moving armature instrumer class 1.5) 	35-2Q k- cur- it 3 ts, n

1 illuminated rocker switch