

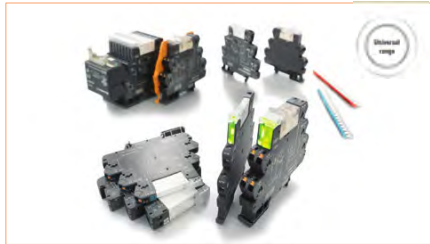
# Switching of small resistive and inductive loads

## Selection table for signal relays

The table below helps you to select suitable relay modules for the specified loads. A service life of around 100,000 switching operations is assumed.

Suitable KITS are available for all series on this page.

### TERMSERIES



### RIDERSERIES



### D-SERIES



Change-over relay	RSS 1 CO	RCL 1 CO	RCL 2 CO	RCI 1 CO	RCI 2 CO	RCM 2 CO	RCM 3 CO	RCM 4 CO	DRI 1 CO	DRI 2 CO	DRM 2 CO	DRM 4 CO
Example Part No. Single relay 24 V DC input	4060120000	1984040000	4058570000	8870250000	8870320000	8689860000	8690040000	8690200000	7760056315	7760056340	7760056069	7760056097
Example Part No. KIT 24 V DC input	2618000000	2618100000	2618400000	8897190000	8897230000	8921080000	8920980000	8921120000	2576710000	2576190000	2576120000	2576140000
Insulation between input and output	reinforced insulation	reinforced insulation	reinforced insulation	reinforced insulation	reinforced insulation	basic insulation	basic insulation	basic insulation	basic insulation	basic insulation	basic insulation	basic insulation
Contact material	Ag/Ni	Ag/Ni	Ag/Ni	Ag/Ni	Ag/Ni	Ag/Ni	Ag/Ni	Ag/Ni	Ag/SiO <sub>2</sub>	Ag/SiO <sub>2</sub>	Ag/Ni	Ag/Ni
Resistive AC load AC1 loads: Heaters 250 V AC	< 5 A	< 12 A	< 6 A	< 12 A	< 6 A	< 12 A	< 10 A	< 6 A	< 10 A	< 5 A	< 10 A	< 5 A
Inductive AC load AC15 loads: Valves, contactors 250 V AC AC3 loads: 1-phase motors 250 V AC	< 1,5 A	< 3 A	< 1,5 A	< 3 A	< 1,5 A	< 2,5 A	< 2,5 A	< 1,5 A	< 3 A	< 1,5 A	< 2,5 A	< 1,5 A
	< 0,5 A	< 1 A	< 0,7 A	< 1 A	< 0,7 A	< 1 A	< 0,75 A	< 0,5 A	< 1 A	< 0,5 A	< 1 A	< 0,5 A
Resistive DC load DC1 loads: Heaters 24 V DC	< 3 A	< 8 A	< 4 A	< 8 A	< 4 A	< 7 A	< 5 A	< 3,5 A	< 8 A	< 4 A	< 7 A	< 3,5 A
Inductive DC load DC13 loads: Valves, contactors 24 V DC	< 1 A	< 2 A	< 1 A	< 2 A	< 1 A	< 2 A	< 2 A	< 1 A	< 2 A	< 1 A	< 2 A	< 1 A
Recommended field of application	Miniature switching relay for decoupling control systems and for switching industrial small loads < 1,5 A in the smallest space.	Miniature industrial relay for decoupling controls and switching industrial minimum loads < 3 A.	Miniature industrial relay for decoupling controls, amplifying signals, and switching industrial minimum loads < 2 A.	Miniature industrial relay with optional mechanical test button for decoupling controls and switching industrial minimum loads < 3 A.	Miniature industrial relay with optional mechanical test button for decoupling controls, amplifying signals, and switching industrial loads. Minimum loads < 2 A.	Miniature industrial relay with mechanical test button for decoupling controls, amplifying signals, and switching industrial micro loads < 2,5 A.	Miniature industrial relay with mechanical test button for decoupling controls, amplifying signals, and switching industrial micro loads < 2,5 A.	Miniature industrial relay with mechanical test button for decoupling controls, duplicating signals, and switching industrial micro loads < 1,5 A.	Miniature industrial relay with optional mechanical test button for decoupling controls and switching industrial minimum loads < 3,5 A.	Miniature industrial relay with optional mechanical test button for decoupling controls, amplifying signals, and switching industrial minimum loads < 2,5 A.	Miniature industrial relay with optional mechanical test button for decoupling controls, amplifying signals, and switching industrial loads. Minimum loads < 3 A.	Miniature industrial relay with optional mechanical test button for decoupling controls, duplicating signals, and switching industrial loads. Minimum loads < 2 A.

The indicated currents only apply to the normally open contact. The data of the normally closed contact are to be set at approx. one third of the specified values. The real service life can be both above and below the specified value because each load stresses the switching contact differently and other environmental factors influence the service life of the switching contact, e.g. ambient temperature, mounting position, switching frequency, and many more. Therefore, these values are without guarantee and serve as orientation for better dimensioning. The assessment of the maximum load capacity was carried out on the basis of many years of practical experience as well as life cycle tests under laboratory conditions.

# Switching of large resistive and inductive loads

## Selection table for power relays

The table below helps you to select suitable relay modules for the specified loads. A service life of around 100,000 switching operations is assumed.

### D-SERIES



### POWER



Changeover contact relay	DRR 2 CO	DRR 3 CO	DRL 1 CO	DRL 2 CO	DRL 3 CO	DRL 4 CO	DRW 2 CO	DRW 3 CO	DRH 1 NO	DRH 2 NO	PWR 1 NO	PWR 2 NO
Example Part no. Single relay	1133370000	1133420000	1133460000	1133520000	1133580000	1133630000	1219740000	1219790000	1219850000	1220150000	1219480000	1219550000
Example Art. no. KIT 24 V DC input												
Insulation between input and output	Basic insulation	Functional insulation	Basic insulation	Basic insulation	Basic insulation	Basic insulation	Basic insulation	Basic insulation	Basic insulation	Basic insulation	Basic insulation	Basic insulation
Contact material	AgCuO	AgCuO	AgCuO	AgCuO	AgCuO	AgCuO	AgCuO	AgCuO	AgSiO	AgSiO	AgSiO	AgSiO
Resistive AC load	AC1 loads: Heaters 250 V AC	< 10 A	< 10 A	< 16 A	< 10 A	< 10 A	< 16 A @ 250 V < 10 A @ 400 V	< 16 A @ 250 V < 10 A @ 400 V	< 16 A @ 400 V	< 16 A @ 250 V	< 30 A	< 25 A
Inductive AC load	AC15 loads: Valves, contactors 250 V	< 3,5 A	< 3,5 A	< 5,5 A	< 4,5 A	< 4,5 A	< 5,5 A	< 5 A	< 7 A	< 6 A	< 12 A	< 8,5 A
	AC3 loads: 1-phase motors 250 V AC	< 1,5 A	< 1,5 A	< 3,5 A	< 2 A	< 2 A	< 3,5 A	< 3 A 1-phase < 3 A 3-phase	< 4 A	< 3,5 A	< 8 A	< 6 A
Resistive DC load	DC1 loads: Heaters	< 10 A	< 10 A	< 10 A	< 7 A	< 7 A	< 16 A	< 16 A	< 16 A @ 24 V DC < 12 A @ 125 V DC < 10 A @ 220 V DC	< 16 A @ 24 V DC < 7 A @ 125 V DC < 3 A @ 220 V DC	< 25 A	< 20 A
Inductive DC load	DC13 loads: Valves, contactors 24 V DC	< 2,5 A	< 2,5 A	< 4 A	< 3,5 A	< 3,5 A	< 4 A	< 3,5 A	< 12 A @ 24 V DC < 5 A @ 125 V DC < 3 A @ 220 V DC	< 9 A @ 24 V DC < 2 A @ 125 V DC < 1 A @ 220 V DC	< 7 A	< 6 A
Recommended field of application	Power relay (with octal relay) for switching several industrial loads < 3,5 A.	Power relay (with octal relay) for switching several industrial loads < 3,5 A.	Miniature power relay for switching industrial loads < 5,5 A.	Miniature power relay for switching several industrial loads < 4,5 A.	Miniature power relay for switching several industrial loads < 4,5 A.	Miniature power relay for switching several industrial loads < 4,5 A.	Power relay with mechanical test button for switching multiple industrial loads < 5,5 A.	Power relay with mechanical test button for switching industrial loads < 5 A or a 3-phase electric motor < 3 A.	Power relay with blow out magnet and mechanical test button specially designed for switching industrial loads with high DC voltage up to 220 V DC 3 A.	Power relay with blow out magnet and mechanical test button especially for switching industrial loads with high DC voltage up to 220 V DC 1 A.	Power relay (miniature contactor) with double contact opening for switching industrial loads < 12 A.	Power relay (miniature contactor) with double contact opening for switching industrial loads < 8,5 A.

The indicated currents only apply to the normally open contact. The data of the normally closed contact are to be set at approx. one third of the specified values. The real service life can be both above and below the specified value because each load stresses the switching contact differently and other environmental factors influence the service life of the switching contact, e.g. ambient temperature, mounting position, switching frequency, and many more. Therefore, these values are without guarantee and serve as orientation for better dimensioning. The assessment of the maximum load capacity was carried out on the basis of many years of practical experience as well as life cycle tests under laboratory conditions.

# Reliable power supply for highest demands

## PROtop 'the innovative one'

If reliable availability and energy efficiency are required even under adverse conditions or in hard-to-reach locations, then our PROtop family is the right choice. The predestined solution. The powerful DCL technology gives the switched mode power supply units an outstanding Dynamic range - ideal for reliable pulse triggering of miniature and standard circuit breakers or as additional energy for powerful motor starts.

- Safe tripping of miniature circuit breakers due to peak current reserve of 600 % for 20 ms
- Efficiencies of up to 95.4 % lead to low heat losses and extremely space saving housings
- New data interface makes the PROtop power supplies fit for digitization
- Start-up temperatures as low as -40 °C (for EX/C1D2 version)
- Redundancy without diode module



Type	Input			Output			Dimensions width x height x depth in mm	Order number	
	1-phase	2/3--phase	input voltage AC	Input voltage DC	Output Nominal voltage / current (DC)	Adjustable Output			parallel running
PRO TOP1 72W 24V 3A	•		85 - 277 V	80 - 410 V	24 V/ 3 A	22,5 - 29 V DC	•	35 x 120 x 125	2466850000
PRO TOP1 120W 24V 5A	•		85 - 277 V	80 - 410 V	24 V/ 5 A	22,5 - 29 V DC	•	35 x 130 x 125	2466870000
PRO TOP1 240W 24V 10A	•		85 - 277 V	80 - 410 V	24 V/ 10 A	22,5 - 29 V DC	•	39 x130 x 125	2466880000
PRO TOP1 480W 24V 20A	•		85 - 277 V	80 - 410 V	24 V/ 20 A	22,5 - 29 V DC	•	68 x 130 x 125	2466890000
PRO TOP1 960W 24V 40A	•		85 - 277 V	80 - 410 V	24 V/ 40 A	22,5 - 29 V DC	•	124 x 130 x 125	2466900000
PRO TOP3 120W 24V 5A		•	3 x 320 - 575 V	3 x 450 - 800 V	24 V/ 5 A	22,5 - 29 V DC	•	38 x 130 x125	2467060000
PRO TOP3 240W 24V 10A		•	3 x 320 - 575 V	3 x 450 - 800 V	24 V/ 10 A	22,5 - 29 V DC	•	49 x 130 125	2467080000
PRO TOP3 480W 24V 20A		•	3 x 320 - 575 V	3 x 450 - 800 V	24 V/ 20 A	22,5 - 29 V DC	•	68 x 130 x125	2467100000
PRO TOP3 960W 24V 40A		•	3 x 320 - 575 V	3 x 450 - 800 V	24 V/ 40 A	22,5 - 29 V DC	•	90 x 130 x 175	2467120000
PRO TOP1 120W 12V 10A	•		85 - 277 V	80 - 410 V	12 V/ 10 A	11...15 V DC	•	35 x 130 x 125	2466910000
PRO TOP1 480W 48V 10A	•		85 - 277 V	80 - 410 V	48 V/ 10 A	45...56 V DC	•	68 x 130 x 125	2467030000
PRO TOP1 960W 48V 20A	•		85 - 277 V	80 - 410 V	48 V/ 20 A	45...56 V DC	•	124 x 130 x 125	2466920000
PRO TOP3 480W 48V 10A		•	3 x 320 - 575 V	3 x 450 - 800 V	48 V/ 10 A	45...56 V DC	•	68 x 130 x 125	2467150000
PRO TOP3 960W 48V 20A		•	3 x 320 - 575 V	3 x 450 - 800 V	48 V/ 20 A	45...56 V DC	•	90 x 130 x 175	2467170000
PRO TOP1 72W 24V 3A CO	•		85 - 277 V	80 - 410 V	24 V/ 3 A	22,5 - 29 V DC	•	35 x 120 x 125	2466970000
PRO TOP1 120W 24V 5A EX	•		85 - 277 V	80 - 410 V	24 V/ 5 A	22,5 - 29 V DC	•	35 x 130 x 125	2466890000
PRO TOP1 240W 24V 10A EX	•		85 - 277 V	80 - 410 V	24 V/ 10 A	22,5 - 29 V DC	•	39 x130 x 125	2466990000
PRO TOP1 480W 24V 20A EX	•		85 - 277 V	80 - 410 V	24 V/ 20 A	22,5 - 29 V DC	•	68 x 130 x 125	2467000000
PRO TOP1 960W 24V 40A EX	•		85 - 277 V	80 - 410 V	24 V/ 40 A	22,5 - 29 V DC	•	124x 130 x 125	2467010000

# Maximum load capacity and versatility in application

## PROmax, 'the powerhouse'

The powerful switched mode power supplies of the PROmax series are designed for demanding mechanical engineering applications. They show their strengths in plant engineering, in the food and beverage industry, in automotive engineering and even in plants of the process industry. Permanent overloads up to 20% of nominal current at 45 °C or short-term peak loads until 300% of nominal current are easily absorbed by PROmax. With start-up temperatures as low as -25 °C, the power supplies are particularly robust. Thanks to their small overall width, they also fit into limited space conditions. A wide range of approvals make PROmax suitable for worldwide use.

- High load capacity with constant output powers up to 120 % at temperatures up to + 45 °C and high output peaks up to 300 %
- Universally applicable with variants from 3 A to 40 A output current and output voltages from 5 V DC to 48 V DC
- Particularly robust with start-up temperatures of -25 °C



Type	Input				Output			Dimensions width x height x depth in mm	Order number
	1-phase	2/3-phase	Input voltage AC	Input voltage DC	Output Nominal voltage / current (DC)	Adjustable Output	parallel running		
PRO MAX 72W 24V 3A	•		85 - 277 V	80 - 370 V	24 V / 3 A	22,5 - 29,5 V	•	32 x 130 x 125	1478100000
PRO MAX 120W 24V 5A	•		85 - 277 V	80 - 370 V	24 V / 5 A	22,5 - 29,5 V	•	40 x 130 x 125	1478110000
PRO MAX 180W 24V 7,5A	•		85 - 277 V	80 - 370 V	24 V / 7,5 A	22,5 - 29,5 V	•	50 x 130 x 125	1478120000
PRO MAX 240W 24V 10A	•		85 - 277 V	80 - 370 V	24 V / 10 A	22,5 - 29,5 V	•	60 x 130 x 125	1478130000
PRO MAX 480W 24V 20A	•		85 - 277 V	80 - 370 V	24 V / 20 A	22,5 - 29,5 V	•	90 x 130 x 150	1478140000
PRO MAX 960W 24V 40A	•		85 - 277 V	80 - 370 V	24 V / 40 A	22,5 - 29,5 V	•	140 x 130 x 150	1478150000
PRO MAX3 120W 24V 5A		•	3 x 320 - 575 V	3x 450 - 800 V	24 V / 5 A	22,5 - 29,5 V	•	40 x 130 x 125	1478170000
PRO MAX3 240W 24V 10A		•	3 x 320 - 575 V	3x 450 - 800 V	24V / 10A	22,5 - 29,5 V	•	60 x 130 x 125	1478180000
PRO MAX3 480W 24V 20A		•	3 x 320 - 575 V	3x 450 - 800 V	24 V / 20 A	22,5 - 29,5 V	•	90 x 130 x 150	1478190000
PRO MAX3 960W 24V 40A		•	3 x 320 - 575 V	3x 450 - 800 V	24 V / 40 A	22,5 - 29,5 V	•	140 x 130 x 150	1478200000
PRO MAX 70W 5V 14A	•		85 - 277 V	80 - 370 V	5 V / 14 A	4,5 - 7 V	•	32 x 130 x 125	1478210000
PRO MAX 72W 12V 6A	•		85 - 277 V	80 - 370 V	12 V / 6 A	10 - 15 V	•	32 x 130 x 125	1478220000
PRO MAX 120W 12V 10A	•		85 - 277 V	80 - 370 V	12 V / 10 A	10 - 15 V	•	40 x 130 x 125	1478230000
PRO MAX 240W 48V 5A	•		85 - 277 V	80 - 370 V	48 V / 5 A	30 - 56 V	•	60 x 130 x 125	1478240000
PRO MAX 480W 48V 10A	•		85 - 277 V	80 - 370 V	48 V / 10 A	30 - 56 V	•	90 x 130 x 150	1478250000
PRO MAX 960W 48V 20A	•		85 - 277 V	80 - 370 V	48 V / 20 A	30 - 56 V	•	140 x 130 x 150	1478270000

# Economical power supply solutions

## PROeco "the economical solution"

Switched mode power supplies with above average performance values can create real competitive advantages, especially in series machine construction. We have therefore designed our PROeco series to be particularly efficient. With an installation depth of max. 120 mm, you can easily insert the devices even into flat control boxes. And you also achieve space savings of up to 50 % in width. At the same time, all basic functions are included in the compact format.

- Sustainably more efficient due to efficiency of up to 93 % and low idling losses
- Reliable in a wide temperature range from -25 °C to +70 °C and with MTBF value of > 500,000 h
- Fast status diagnosis using three-color LED display and integrated status relay



Type	Input		Output				Dimensions		Order number
	1-phase	2/3-phase	Input voltage AC	Input voltage DC	Output Nominal voltage / current (DC)	Adjustable Output	parallel running	width x height x depth in mm	
PRO ECO 72W 24V 3A	•		85 - 264 V	80 - 370 V	24 V / 3 A	22...28 V DC	•	34 x 125 x 100	1469470000
PRO ECO 120W 24V 5A	•		85 - 264 V	80 - 370 V	24 V / 5 A	22...28 V DC	•	40 x 125 x 100	1469480000
PRO ECO 240W 24V 10A	•		85 - 264 V	80 - 370 V	24 V / 10 A	22...28 V DC	•	60 x 125 x 100	1469490000
PRO ECO 480W 24V 20A	•		85 - 264 V	80 - 370 V	24 V / 20 A	22...28 V DC	•	100 x 125 x 120	1469510000
PRO ECO 960W 24V 40A	•		85 - 264 V	80 - 370 V	24 V / 40 A	22...28 V DC	•	160 x 125 x 120	1469520000
PRO ECO3 120W 24V 5A		•	3x 340 - 575 V	3x 450 - 870 V	24 V / 5 A	22...28 V DC	•	40 x 125 x 100	1469530000
PRO ECO3 240W 24V 10A		•	3x 340 - 575 V	3x 450 - 870 V	24 V / 10 A	22...28 V DC	•	60 x 125 x 100	1469540000
PRO ECO3 480W 24V 20A		•	3x 340 - 575 V	3x 450 - 870 V	24 V / 20 A	22...28 V DC	•	100 x 125 x 120	1469550000
PRO ECO3 960W 24V 40A		•	3x 340 - 575 V	3x 450 - 870 V	24 V / 40 A	22...28 V DC	•	160 x 125 x 120	1469560000
PRO ECO 72W 12V 6A	•		85 - 264 V	80 - 370 V	12 V / 6 A	10...16 V DC	•	34 x 125 x 100	1469570000
PRO ECO 120W 12V 10A	•		85 - 264 V	80 - 370 V	12 V / 10 A	10...16 V DC	•	40 x 125 x 100	1469580000
PRO ECO 240W 48V 5A	•		85 - 264 V	80 - 370 V	48 V / 5 A	42...56 V DC	•	60 x 125 x 100	1469590000
PRO ECO 480W 48V 10A	•		85 - 264 V	80 - 370 V	48 V / 10 A	42...56 V DC	•	100 x 125 x 120	1469610000

# A permanent power supply for buildings and machines

## INSTA-POWER – compact, highly efficient and reliable

The single-phase INSTA-POWER switched mode power supplies are characterized by a large power spectrum, a compact design and a good price-performance ratio. They are suitable for temperature ranges from -25 °C to +70 °C, have international approvals and a wide range voltage input. This makes them suitable for a wide range of applications. This also includes signal and telecommunication systems as well as automation systems with low power requirements up to 96 watts.

- Extremely compact and particularly energy-efficient
- Available in nine variants with 5, 12, 24 and 48 V DC output voltage
- Universally applicable thanks to international approvals (cCSAus (UL508), CI. 1, Div. 2, and NEC Class 2 until 90W)
- Flexible on mounting rails or wall mountable at the Switch cabinet
- Fast installation with PUSH IN connection technology



Type	Input		Output		Dimensions width x height x depth in mm	Order number.
	Input AC	Input DC	rated voltage- DC	Adjustable Output		
PRO INSTA 30W 5V 6A	85...264 V AC	95...370 V DC	5 V DC / 6 A	4 - 7 V DC	72 x 90 x 60	2580210000
PRO INSTA 30W 12V 2.6A	85...264 V AC	95...370 V DC	12 V DC / 2.6 A	9 - 16 VDC	54 x 90 x 60	2580220000
PRO INSTA 60W 12V 5A	85...264 V AC	95...370 V DC	12 V DC / 5 A	9 - 16 V DC	72 x 90 x 60	2580240000
PRO INSTA 16W 24V 0.7A	85...264 V AC	95...370 V DC	24 V DC / 0.7 A	22 -28 V DC	22,5 x 90 x 60	2580180000
PRO INSTA 30W 24V 1.3A	85...264 V AC	95...370 V DC	24 V DC / 1.3 A	22 -28 V DC	72 x 90 x 60	2580190000
PRO INSTA 60W 24V 2.5A	85...264 V AC	95...370 V DC	24 V DC / 2.5 A	22 -28 V DC	72 x 90 x 60	2580230000
PRO INSTA 90W 24V 3.8A	85...264 V AC	95...370 V DC	24 V DC / 4 A	22 -28 V DC	90 x 90 x 60	2580250000
PRO INSTA 96W 24V 4A	85...264 V AC	95...370 V DC	24 V DC / 3.8 A	22 -28 V DC	90 x 90 x 60	2580260000
PRO INSTA 96W 48V 2A	85...264 V AC	95...370 V DC	48 V DC / 2 A	35 - 56 V DC	90 x 90 x 60	2580270000

# Reliably protect sensitive system components with our extension modules

Make your supply concept permanent. Connect your switched mode power supplies with optimally matched supplementary modules:

- modular configurable DC UPS system with lead-gel batteries, gives autonomy to our equipment
- Buffer module: Capacitor-based, maintenance-free which supports loads of 20 A / 260 ms or 4A/ 10s.
- Capacity module: Offers energy reserves, for example to trigger a miniature circuit breaker quickly and specifically
- Redundancy diode modules: for safe parallel operation and/or active load sharing



Type	Reference	Dimensions width x height x depth in mm	Order number
CP DC UPS 24V 20A/10A	UPS control unit for 24 V DC@10 A or 20 A	66 x 130 x 150	1370050010
CP DC UPS 24V 40A	UPS control unit for 24 V DC@40 A	66 x 130 x 150	1370040010
CP A BATTERY 24V DC 1.3Ah	Battery module 24 VDC 1.3 Ah / support capacity 3 A / 10 min	52 x 148 x 124	1406930000
CP A BATTERY 24V DC 3.4Ah	Battery module 24 VDC 3.4 Ah / support capacity 5 A / 20 min	108 x 144 x 137	1251070000
CP A BATTERY 24V DC 7.2Ah	Battery module 24 VDC 7.2 Ah / supporting capacity 10 A / 20 min	162 x 155 x 134	1251080000
CP A BATTERY 24V DC 12Ah	Battery module 24 VDC 12 Ah / supporting capacity 10 A / 40 min	229 x 155 x 134	1251090000
CP A BATTERY 24V DC 17Ah	Battery module 24 VDC 17 Ah / supporting capacity 20 A / 30 min	242 x 178 x 160	1251110000
CP DC BUFFER 24V 20A	Buffer module for bridging short mains interruptions	66 x 130 x 150	1251220000
CP M CAP	Capacity module	34 x 130 x 150	1222240000
PRO DM 10	Redundancy module 24 V DC 2 x 10 A	32 x 125 x 125	2466070000
PRO DM 20	Redundancy module 24 V DC 2 x 20 A	32 x 125 x 125	2466080000
PRO RM 10	Redundancy module 24 V DC 2 x 10 A / active load sharing	30 x 130 x 125	2486090000
PRO RM 20	Redundancy module 24 V DC 2 x 20 A / active load sharing	38 x 130 x 125	2486100000
PRO RM 40	Redundancy module 24 V DC 2 x 40 A / active load sharing	52 x 130 x 125	2486110000

### کابل بر با دهانه بسته

KT45	45/400 mm <sup>2</sup>
KT55	55/500 mm <sup>2</sup>
KT80	80/630 mm <sup>2</sup>



### کابل بر با دهانه باز

KTF25	25/120 mm <sup>2</sup>
KTF36	35/300 mm <sup>2</sup>



### سیم چین

KT8	8/16 mm <sup>2</sup>
KT12	12/35 mm <sup>2</sup>
KT14	14/70 mm <sup>2</sup>
KT22	22/95 mm <sup>2</sup>



### عایق بردار

AM16	5 - 17 mm <sup>2</sup>
AM25	6 - 25 mm <sup>2</sup>
AM35	25 - 36 mm <sup>2</sup>
AM6/10	Ribbon 6 & 10 mm <sup>2</sup>



### سیم لخت کن اتومات

STRIPAX	0.08 - 10 mm <sup>2</sup>	PVC
STRIPAX16	6 - 16 mm <sup>2</sup>	PVC
STRIPAX ULTIMATE	0.25-6 mm <sup>2</sup>	Halogen-free
STRIPAX ULTIMATE XL	2.5-10 mm <sup>2</sup>	Halogen-free
Mini-duro-stripax	کاربرد برای سیم های با روکش خاص	



### پرس سر سیم اتومات

PZ 10 HEX	0.14 - 10 mm <sup>2</sup>
PZ 10 SQR	0.14 - 10 mm <sup>2</sup>



### پرس سر سیم اتومات

PZ Roto L 0.14 - 6 mm<sup>2</sup>  
پرس سر سیم چرخان با قفل  
کارکرد بر اساس استاندارد ۴۶۲۲۸  
ورود سیم و فرول از جلو یا پهلو  
قفل فشار پرس



### پرس سر سیم ۵ شیر

PZ6/5	0.25 - 6 mm <sup>2</sup>
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بر اساس استاندارد های  
EN 60947-1  
VG 95 236 T 14 B 002



### بست زن فلزی و پلاستیکی

- بست کابل پلاستیکی اتومات
- بست کابل فلزی اتومات
- بست کابل فلزی دستی



### برش کابل هیدرولیک

- برش ۵ تا ۶۰ میلیمتر
- باتری و شارژر
- کارکرد آسان
- استفاده آسان با یک دست
- سنسور میزان فشار
- کارکرد ۳۶۰ درجه
- سرعت بالا



### پرس کابل هیدرولیک

- پرس ۶ تا ۱۵۰ میلیمتر
- باتری و شارژر
- کارکرد آسان
- انتقال اطلاعات کیفیت پرس به رایانه
- سنسور میزان فشار
- حافظه داخلی اطلاعات پرس
- سرعت بالا



### کیف ابزار وایدمولر

- مجموعه کامل ابزار وایدمولر
- ایده ال برای کارگاه ها
- حمل و نقل راحت
- ابزار برش
- ابزار پرس
- ابزار لخت کن
- ابزار اندازه گیری
- و ...



### مجموعه پیچ گوشتی

- عایق ۱۰۰۰ ولت سرتاسری
- طراحی اختصاصی وایدمولر
- کاربرد آسان
- طراحی ارگونومیک
- عمر بالای لبه
- عایق بدون برآمدگی روی میله
- دسترسی به ترمینال های عمیق



### سیم لخت کن سری قرمز

- طراحی یکسان با سری نارنجی
- جنس بدنه پلاستیک فشرده نشکن
- کاربرد آسان
- طراحی ارگونومیک
- عمر بالای تیغه



Stripper 6	0.08 - 10 mm <sup>2</sup>
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### کابل بر سری قرمز

- طراحی یکسان با سری نارنجی
- بدون عایق ولتاژ
- کاربرد آسان
- طراحی ارگونومیک
- عمر بالای لبه



Cutter 35	35/300 mm <sup>2</sup>
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### سیم چین سری قرمز

- طراحی یکسان با سری نارنجی
- بدون عایق ولتاژ
- کاربرد آسان
- طراحی ارگونومیک
- عمر بالای لبه



Cutter 8	6/16 mm <sup>2</sup>
Cutter 20A	20/80 mm <sup>2</sup>



## برش ریل و شینه فلزی

- TS5 برش شینه زمین
- TS32 برش
- TS15/5.5 برش
- TS35/7.5 15 برش
- TS35 TS35/7.5 15 برش



## برس سر سیم اتومات

- PZ1.5 0.14 - 1.5 mm<sup>2</sup>
- PZ3 0.5 - 6 mm<sup>2</sup>
- PZ4 0.5 - 4 mm<sup>2</sup>



## سه کاره برش، لخت کن و پرس سر سیم

- STRIPAX PLUS 2.5
- برش تا ۶ میلیمتر
- عایق برداری تا ۱۰ میلیمتر
- پرس سر سیم ۰.۵ تا ۲.۵
- سه عملکرد در یک دستگاه
- تیغه فولاد مخصوص با برش لیزری
- تیغه ۳۲ تکه برای بهترین نتیجه
- پرس طبق استاندارد



## برش داکت

- برش بدون پرتی
- بالاترین سرعت کاری
- خط کش طول و زاویه
- نصب بر روی میز کار
- تیغه فولاد مخصوص با برش لیزری



## عایق بردار کابل کواکسیال

- با کاست قابل تنظیم
- عایق برداری با فواصل استاندارد
- سرعت بالای عایق برداری چند لایه
- نتیجه یکسان بعد از هر استفاده
- تیغه فولاد مخصوص با برش لیزری
- رنج کابل ۲.۵ تا ۸ میلیمتر
- سه مرحله عایق برداری با یک حرکت



## پرس فیبر نوری

- IE-CT-SC-POF IP20/IP67
- IE-CT-SC-GOF-P IP67/Profinet/Mobil



## پرس سر سیم فیبری

- CTI6 0.5 - 6 mm<sup>2</sup>



## پرس سر کابل دستی

- PZ 16 6 - 16 mm<sup>2</sup>
- PZ 50 25 - 50 mm<sup>2</sup>



## بیج کوشتی سیم چین

- هم بیج کوشتی و هم سیم چین
- طراحی اختصاصی و ایدمولر
- کاربرد آسان
- دسته عایق ولتاژ
- برش تا سایز ۲.۵ میلیمتر



## بیج کوشتی شارژی

- سبک، طراحی خاص برای کارکرد آسان
- گشتاور (تورک) قابل تنظیم در ۲۱ مرحله
- نور راهنما
- طراحی ارگونومیک برای کاربرد با یک دست
- قابلیت استفاده صاف و دستی
- باتری با عملکرد بسیار بالا
- دقت تکرار بالا



## برس سیم اتومات

- قابل استفاده با انواع سر سیم
- برس سیم
- لخت کردن سیم
- قابل استفاده با سیم ۰.۵ تا ۲.۵ میلیمتر
- عملکرد لهرمی برای تغییر سایز سیم
- سرعت هر پرس زیر ۱ ثانیه
- برس بر اساس استاندارد



## ابزار اندازه گیری

- تست ولتاژ
- مولتی متر
- تست کابل شبکه / تلفن و یو اس بی
- تست مغناطیسی
- کلمپ متر
- تست نشستی / تست زمین
- ولت متر دو پل

## برش سیم اتومات

- برش سیم با سرعت بالا
- قابل استفاده با سیم ۸ میلیمتر
- قابلیت تنظیم طول برش با دقت میلیمتر
- قابلیت تعریف سرعت و دسته بندی
- حافظه قابل برنامه ریزی
- انصال به رایانه برای برنامه ریزی سریع
- کشیدن سیم داخل دستگاه به صورت خود کار



## برس سیم سری فرمز

- طراحی یکسان با سری نارنجی
- بدون عایق ولتاژ
- کاربرد آسان
- طراحی ارگونومیک
- عمر بالای بدنه

- Crimper 6z 0.5-6 mm<sup>2</sup>
- Crimper 16z 6-16 mm<sup>2</sup>
- Crimper 50z 35-50 mm<sup>2</sup>
- Crimper 6l فیشی 0.5-6 mm<sup>2</sup>

