



IEK LOW VOLTAGE EQUIPMENT

2025

FORMAT PRO 2500/4000 A





OIL & GAS

ARMAT



Commercial construction



Data Centers

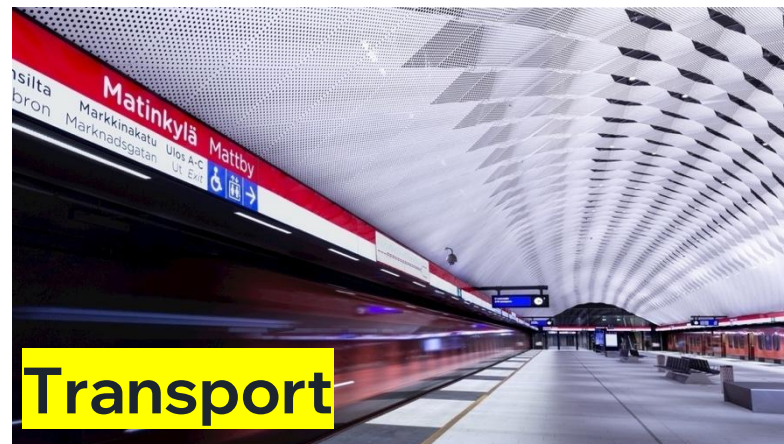
AREAS OF APPLICATION



Generation



Industry



Transport



Alternative energy



ARMAT ACB

AIR CIRCUIT BREAKERS



Wide range

Three types of electronic releases



Life cycle

Up to 50,000 mechanical cycles
(with maintenance)



ModBus protocol

Possibility of integration to
dispatch systems



Wide application

From house construction to industry

RELEASE TYPES



Advanced (TT)

- Modbus
- LSIG
- Colour display with touchscreen function
- Power and voltage measurement

630...6300 A

Rated current

Professional (TY)

- Modbus
- LSIG
- Functional display

55 kA...150 kA

The maximum breaking capacity

Standard (TD)

3 and 4

Quantity of poles



Against overload with adjustments by current and time



Selective

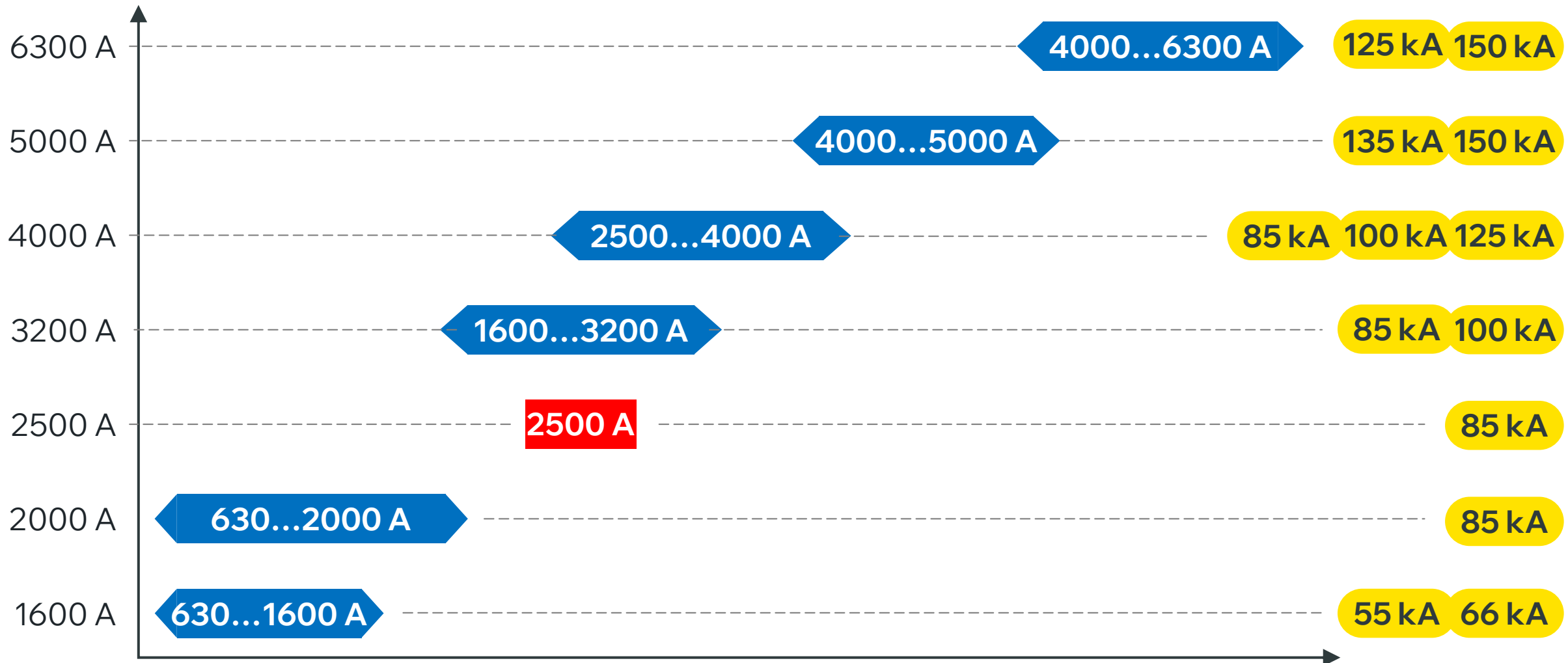


Instant current cutoff



Protection against phase-to-earth fault

CURRENT RANGE



CASE TYPES



Fixed

- Individual device, which is mounted directly to conduct buses. This type of design is not very convenient for maintenance and repair.



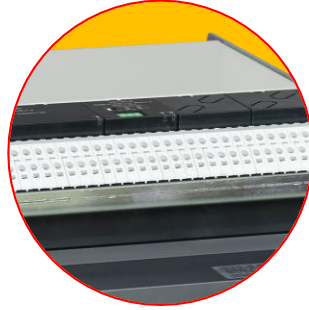
Withdrawable

- This is a combination consisting of the device itself and a basket, in which it is installed. The basket has guides and chassis for air circuit breaker rolling into and rolling out that simplifies its maintenance.

ACB FEATURES

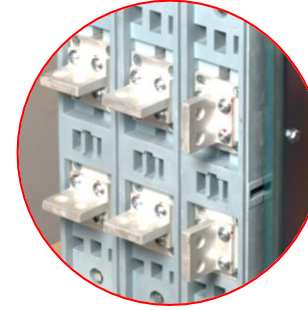


Terminals for
control circuits



Bus connection:

- Horizontal
- Vertical



Microprocessor
tripping device



- Control buttons
- ON/OFF indicator
- Spring status indicator
- Spring cocking handle



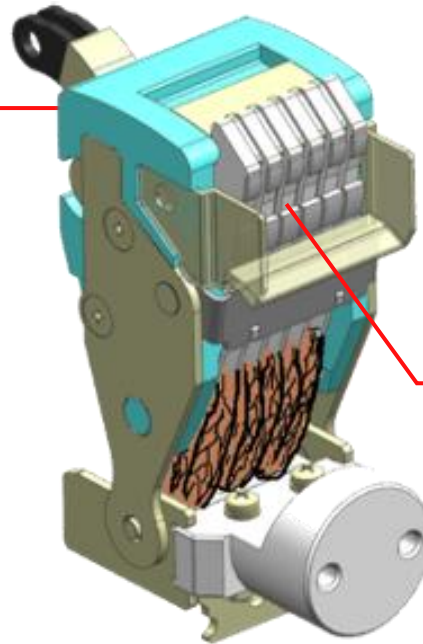
Position lock



TEST function



ARMAT ACB DESIGN FEATURES



- The current path is shortened, which reduces resistance and losses;
- The cylindrical structure of the pole allows for uniform distribution of the flowing current;

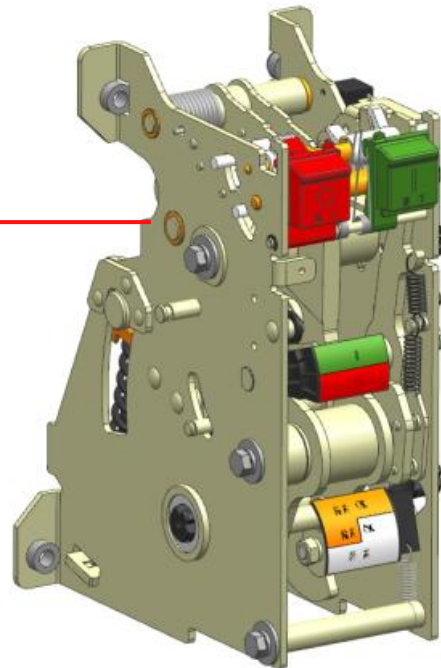


Arc-extinguishing contacts use metal ceramics with a high tungsten content, which ensures the stated wear resistance;

ARMAT ACB DESIGN FEATURES

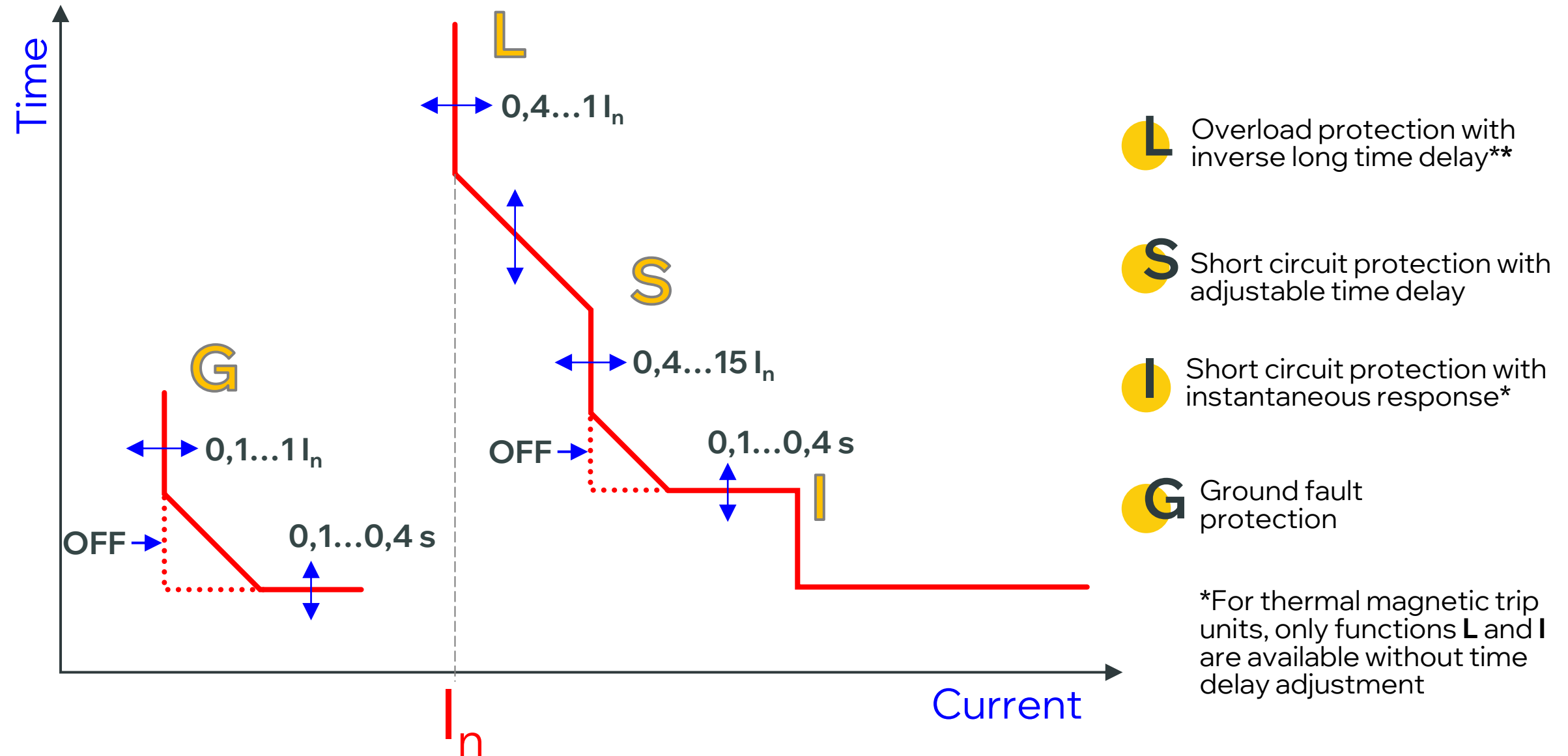


Arc-extinguishing chambers have insulated side surfaces of the chamber entry. This is done to ensure that the arc enters closer to the center of the chamber and increases the switching wear resistance.



By using two springs, the energy stored by the mechanism is increased for greater resistance of the switch to short-circuit currents.

ACB PROTECTION FUNCTIONS



PRICE POSITIONING



490 SKU

Wide product range

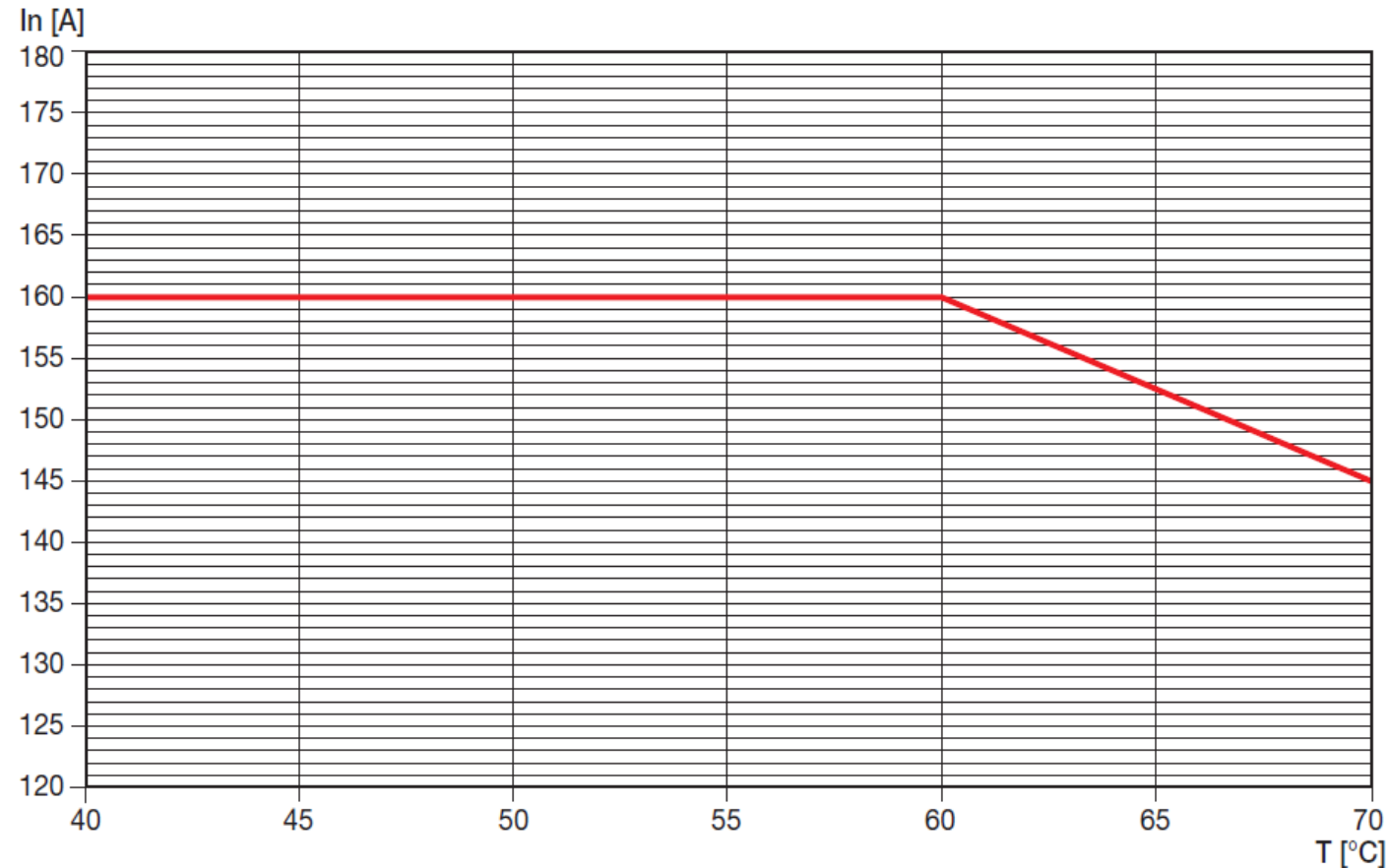
-45%

Average weighted difference from a target contender (Legrand DMX3)

SE MasterPact, ABB EMax, Legrand DMX3
Target contenders

DERATING

- The low temperature dependence coefficient of the transmitted current prevents false tripping under elevated ambient temperatures around the device and ensures stable operation of the electrical installation in emergency modes.



DERATING



Типо- размер	Номиналь- ный ток, А	Допустимый размер присоеди- няемых шин, мм	Коли- чество шин	Кратность тока I/I_n при температуре окружающей среды						
		Для вертикального исполнения		40 °C	45 °C	50 °C	55 °C	60 °C	65 °C	70 °C
B	630	60×6	1	1	1	1	1	1	1	1
	800	60×8	1	1	1	1	1	1	1	1
	1000	60×10	1	1	1	1	1	1	1	1
	1250	60×6	2	1	1	1	1	1	1	1
	1600	60×10	2	1	1	1	1	1	1	1
	2000	80×10	2	1	1	1	1	1	0,98/1960	0,94/1880
D	800	60×8	1	1	1	1	1	1	1	1
	1000	60×10	1	1	1	1	1	1	1	1
	1250	60×6	2	1	1	1	1	1	1	1
	1600	60×10	2	1	1	1	1	1	1	1
	2000	80×10	2	1	1	1	1	1	1	1
	2500	60×10	4	1	1	1	1	0,94/2350	0,88/2200	0,82/2050
F	2500	100×10	2	1	1	1	1	1	0,98/2450	0,91/2275
	3200	100×10	3	1	1	1	1	1	1	0,96/3072
	4000	120×10	3	1	1	1	0,94/3760	0,89/3560	0,83/3320	0,78/3120
G	4000	120×8	4	1	1	1	1	1	1	0,94/3760
	5000	120×10	4	1	1	1	1	0,97/4850	0,92/4600	0,86/4300
H	4000	100×10	4	1	1	1	1	1	1	1
	5000	100×8	6	1	1	1	1	1	1	1
	6300	100×10	6	1	1	1	0,97/6111	0,92/5796	0,86/5418	0,8/ 5040



ACB MASTER



PRODUCT RANGE



Icu, kA (Ics)/In, A	630	800	1000	1250	1600	2000	2500	3200	4000
65 (50)	S								
65 (55)	A								
85	D								
85						E			
85							F		
100							F		

In: from 630 to 4000A
Ue: 400/ 690 V
Icu: 65-100kA
Poles: 3
Design: Fixed and withdrawable
Ui: 1250 V (1000 V for sizes S and A)
Uimp: 12 kV
T: -25C ...+70C



Parameter		S	A	D	E	F	F (100 kA)
Icu , kA	400 V	65	65	65	85	85	100
	690V	42	50	55	75	75	85
Ics , kA	400V	50	55	65	85	85	100
	690V	42	42	55	75	75	85
Icw , 1c , kA	400V	42	50	65	85	85	100
	690V	42	42	55	75	75	85

DERATING



*Operating current
dependence on temperature

Circuit breaker calibration
temperature: +40C

Particularly critical at sites :
- with elevated process temperatures
- with an outdated ventilation system
- with densely packed electrical equipment
- operating at the brink of overload and
requiring modernization

Case	Nominal current, A	Permissible size of connecting busbar, mm	Busbar Quantity	Current multiplicity at ambient temperature I/In						
				40 °C	45 °C	50 °C	55 °C	60 °C	65 °C	70 °C
S	630	40x5	2	1	1	1	1	1	1	1
	800	40x6	2	1	1	1	1	1	1	1
	1000	40x5	3	1	1	1	1	1	1	1
A	800	50x5	2	1	1	1	1	1	1	1
	1000	40x5	3	1	1	1	1	1	1	1
	1250	40x5	4	1	1	1	1	1	1	1
	1600	50x10	2	1	1	1	1	0.98 / 1568	0.93 / 1488	0.87 / 1392
D	1600	60x10	2	1	1	1	1	1	1	1
	2000	60x10	3	1	1	1	1	1	1	1
	2500	60x10	4	1	1	1	1	0.99 / 2475	0.94 / 2350	0.89 / 2225
E	2000	60x10	3	1	1	1	1	1	1	1
	2500	100x5	4	1	1	1	1	1	1	1
	3200	100x10	4	1	1	1	1	1	1	1
F	2000	60x10	3	1	1	1	1	1	1	1
	2500	100x5	4	1	1	1	1	1	1	1
	3200	100x10	4	1	1	1	1	1	1	1
	4000	100x10	4	1	1	1	1	0.96 / 3840	0.91 / 3640	0.86 / 3440

TRIP FUNCTIONS

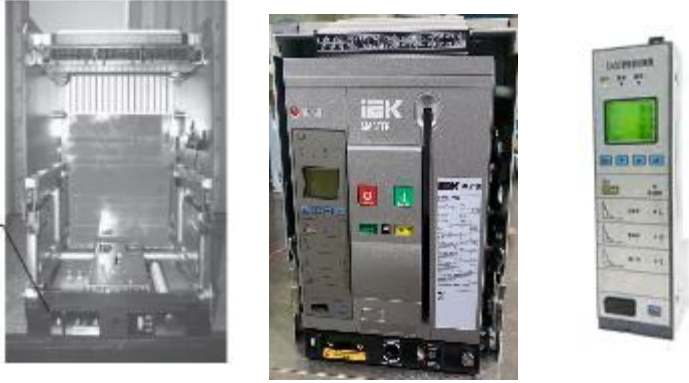


Trip functions			Trip type
			EA-35
Protective functions	Overload (L)		+
	Thermal memory		
	From short circuit with time delay (S)		+
	Thermal memory		
	From short circuit instantaneous (I)		+
	MCR1)		+
Measurement functions	Current	Phase pole	+
Diagnosis of the condition	Disengagement test by simulating a crash		+
	Monitoring of measurement and protection circuits		+
	Temperature control of the release		+
	Wear of contacts		+
	Remaining resource		+
Maintenance Management	Auxiliary Circuit Maintenance Reminder		+
	Switch Maintenance Reminder		+
Data management	10 records of the last uncouplings		+
	Minimum and maximum current		+
Power supply2)	- From an external operational power source; - When the current flowing in at least one of the phases is not less than 25% of the nominal value.		
Notes			
1) The MCR (closing current release) function causes the circuit breaker to trip if the current exceeds the trip current value during the closing operation. This function is deactivated after the circuit breaker has completed closing. When the circuit breaker is in the closed position, the function is not active.			
2) The operational power supply for the microprocessor trip unit is supplied to terminals 1-2 (AC 230 V). To supply the microprocessor trip unit of sizes S, A, an additional 24 V DC power supply module is required.			

DELIVERY SET

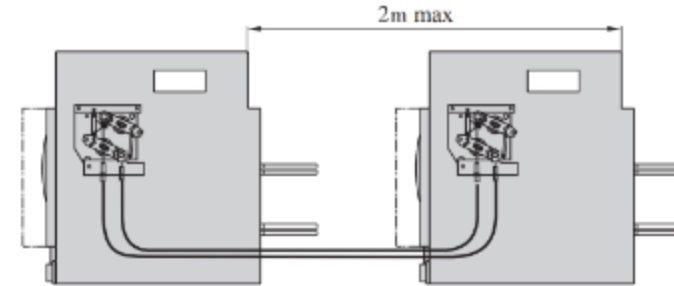


Basic equipment



- Circuit breaker with electronic release
- Retractable base
- Contact position in the basket
- Connectors for connection
- Motor drive 230V AC
- Switching coil 230V AC
- Shutdown coil 230V AC
- 4 changeover contacts

Additional accessories



- Mechanical lock 3VA
- Mechanical lock 2VA

PRODUCT CODE INFO



MI-ACB10-3FA-065-0630-ACF



MI-ACB	10	-	3	F	A	-	065	-	0630	- A	C	F
ACB Master	10 – AC		3 poles	F – fixed W – retractable	A up to 1600 A D up to 2500A E up to 3200A* F up to 4000A		065 080 100		630A 800A 1000A 1250A 1600A 2000A 2500A 3200A 4000A	A – standard controller	C – factory code	F – configuration



ARMAT MCCB

MOULDED CASE CIRCUIT BREAKER



PREMIUM FUNCTIONS

By optimal price

WIDE ASSORTMENT

Devices for 3 and 4 poles

Compact standard size up to 63 A

HIGH RELIABILITY

Double break,

$I_{cu} = I_{cs}$ up to 150 kA

Minimum I_{rat} dependence from t°

AUTOMATION AND DISPATCHING

Release with support of ModBus protocol and display

PRICE POSITIONING



255 SKU

Wide assortment

-200%

Average weighted difference from a target contender (Legrand DPX3)

SE ComPact
ABB Tmax
Legrand DPX3
Target contenders

PRODUCT RANGE

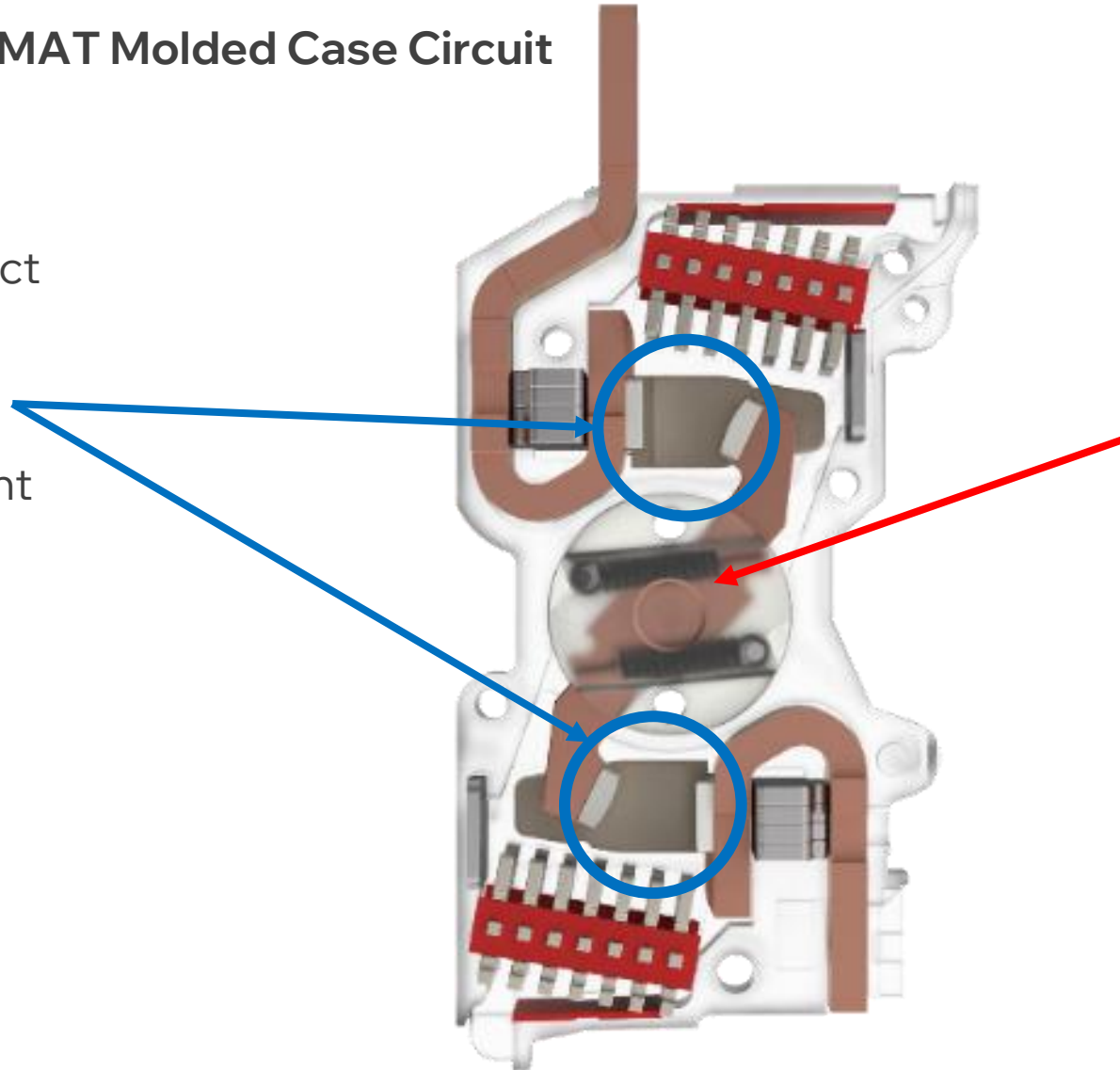


Charact.	S	A	D	G	H	I	N
I _n A	16-63	25-125	100-160	125-250	250-400	400-630	800–1600
Release	Thermal-magnetic adjustable	Thermal-magnetic adjustable Electronic standard Electronic advanced					
I _{cu} kA	35	35, 50, 85, 150	35, 50, 85, 150	50, 85, 150	50, 85, 100, 150	85, 100, 150	85, 120
Q-ty of poles, pcs	3 and 4						

ROTARY MECHANISM

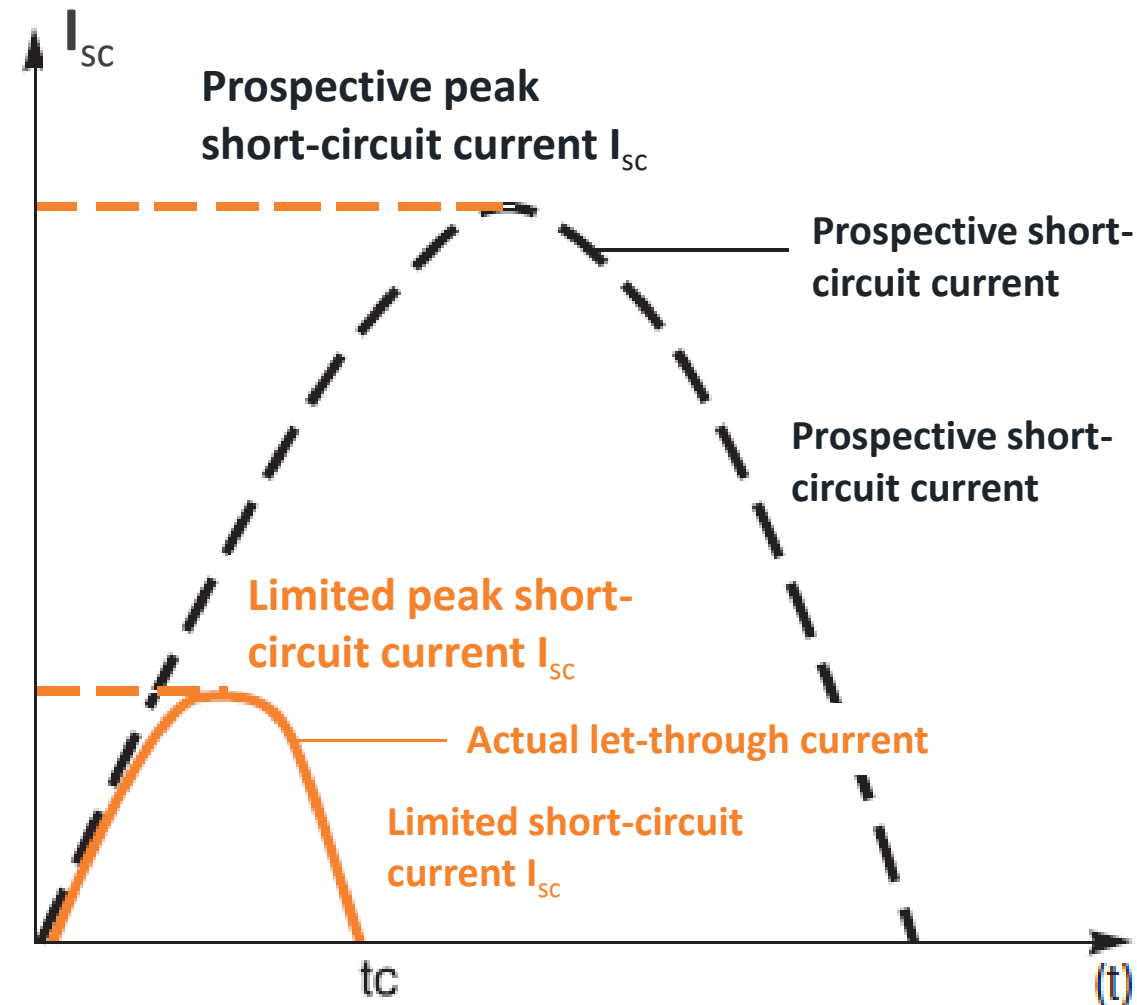
Key Advantages of ARMAT Molded Case Circuit Breakers:

- ❑ Double break contact system delivers superior current limitation and enhances equipment service life



- ❑ Rotary mechanism ensures ultra-fast short-circuit interruption with average tripping time ~55 ms (versus GOST 50030.2 and IEC 60947-2 requirements <100 ms)

CURRENT-LIMITING



Current-Limiting Circuit Breaker

Circuit breaker with an extremely short tripping time, during which the short-circuit current does not reach its peak value.

Extended Service Life of Electrical Installations

Current-limiting circuit breakers significantly reduce the adverse effects of short-circuit currents on electrical installations.

Thermal Impact

Reduced heat generation extends the service life of cable lines.

Mechanical Impact

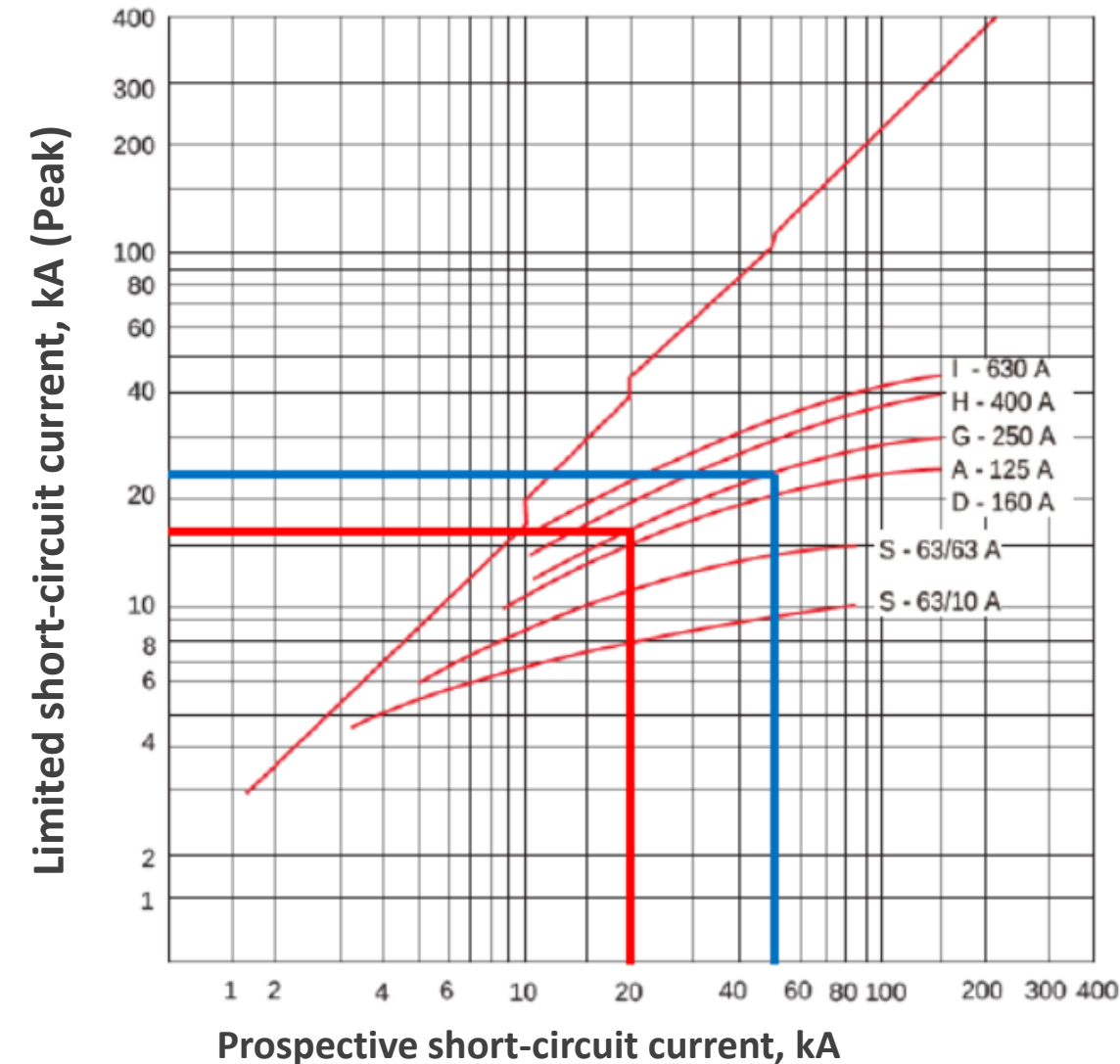
Reduction of electrodynamic forces minimizes the risk of deformation or damage to contact connections and busbars.

Electromagnetic Impact

Mitigation of interference affecting nearby measuring instruments.

CURRENT-LIMITING CALCULATION

AC400B ARMAT MCCB current limitation curve for short-circuit, kA (Peak)



ARMAT – G case - 250A

Example #1

Prospective peak short-circuit current $I = 20 \text{ kA}$

Limited short-circuit current = **16 kA**

Example #2

Prospective peak short-circuit current $I = 50 \text{ kA}$

Limited short-circuit current = **24 kA**



MCCB MASTER



VA88 MASTER



**Coming
soon!**

	VA88-31	VA88-32	VA88-35	VA88-37	VA88-39	VA88-40	VA88-43
I_n A	16 - 63	16 - 125	100 - 250	250 - 400	400 - 630	400 - 800	1000-1600
Release	Thermomagnetic	Thermomagnetic Electronic	Thermomagnetic Electronic	Thermomagnetic	Electronic	Thermomagnetic Electronic	Electronic
I_{cu} kA	25	25	35	35	35	35	70

VA88 MASTER RELEASES



THERMOMAGNETIC
Fixed settings

VA88-31

VA88-32

VA88-37

VA88-33

VA88-40



ELECTRONIC
Adjustable setpoints

VA88-32

VA88-39

VA88-43

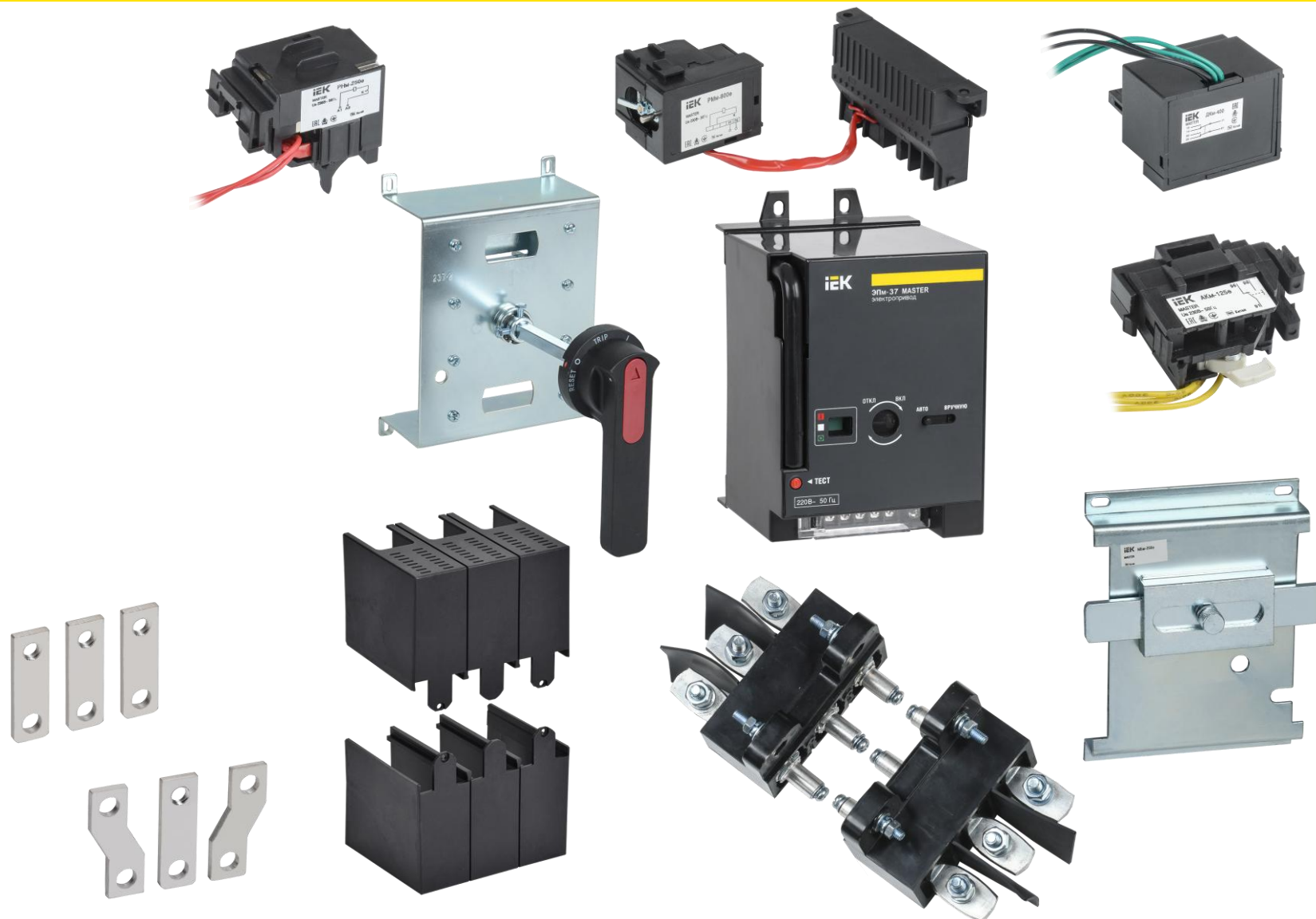
VA88-35

VA88-40

VA88 MASTER ACCESSORIES



- Shunt release **RNm**
- Undervoltage release **RMm**
- Additional contact **DKm**
- Emergency contact **AKm**
- Rotary hand drive **PRPm**
- Electric drive **EPm**
- Plug-in mounting **PMm**
- Mechanical lock **MBm**
- Tips **Nm**
- Expanders **RVm**
- Terminal covers **KKm**





ARMAT CONTACTORS

KMI-A CONTACTORS



2+ million cycles

Electrical wear resistance

15+ million cycles

Mechanical wear resistance

Up to 690 V~

Rated operating voltage, U_e

6A...95A

Rated current

24 / 36 / 48 / 110 / 230 / 400

Voltage of control coils, V, AC

5 years

Warranty

15 years

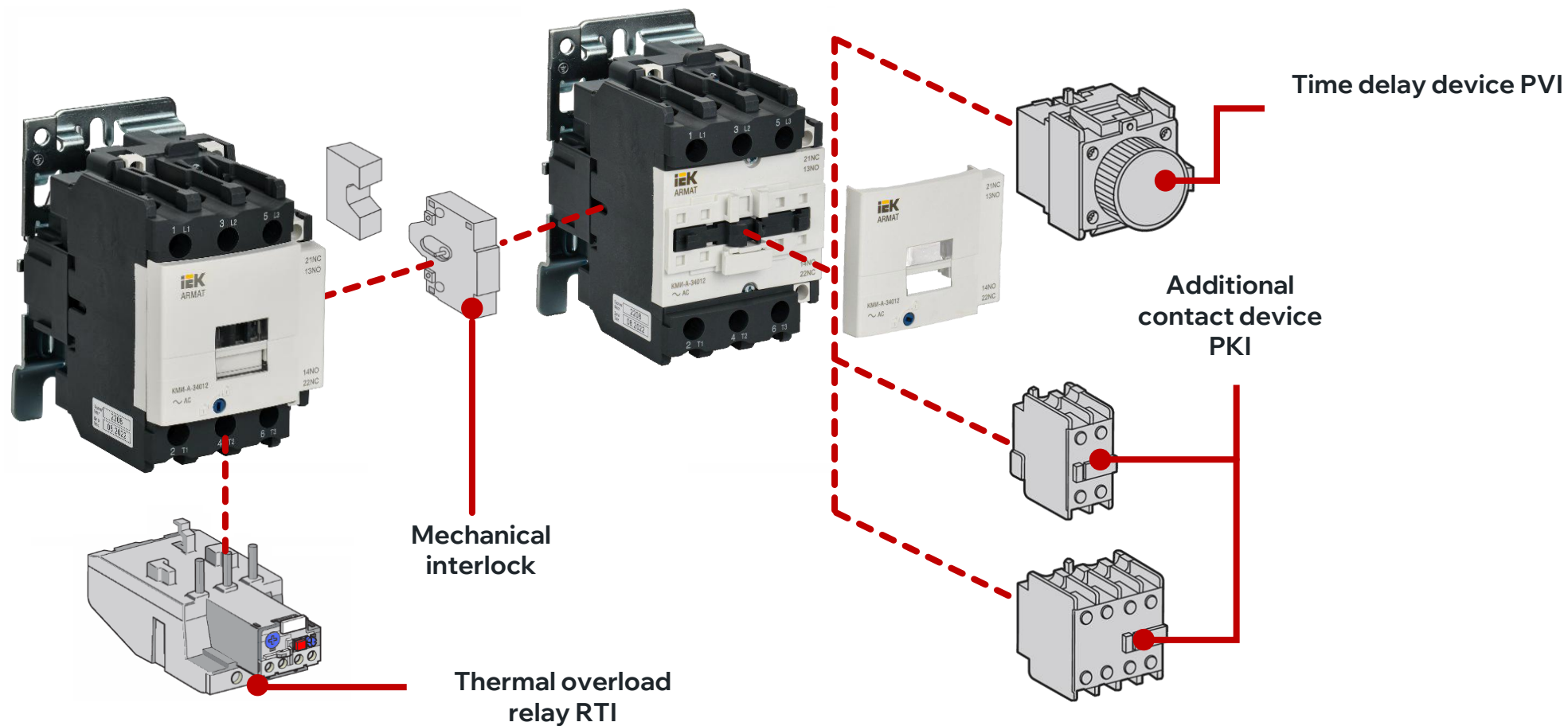
Life time

KMI-A RANGE



Size		1	2	3	4
Current, A		6 - 18	25 - 32	40 - 50	65 - 95
Power, up to, kWt	230 V	4	7,5	15	25
	400 V	7,5	15	22	45
	600 V	10	18,5	37	45
Voltage of control coils, V, AC		24 36 48 110 230 400			

KMI-A ACCESSORIES





KARAT CONTACTORS

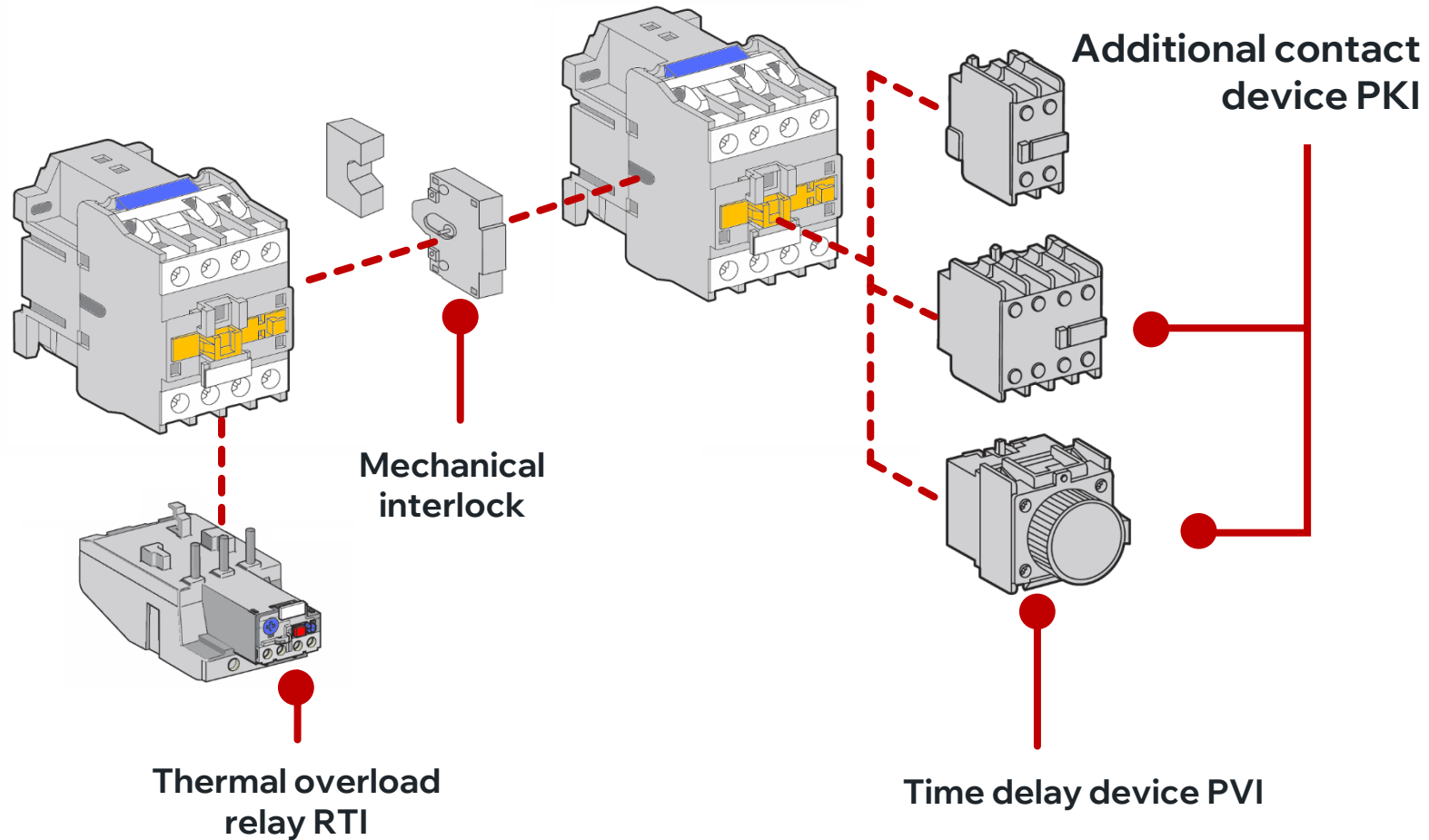


KMI CONTACTORS



Size		1	2	3	4
Current, A		6 - 18	25 - 32	40 - 50	65 - 95
Power, up to, kWt	230 V	4	7,5	15	25
	400 V	7,5	15	22	45
	600 V	10	18,5	33	45
Voltage of control coils, V, AC		24 36 48 110 230 400			

KMI ACCESSORIES



KTI CONTACTORS



size 5



size 6

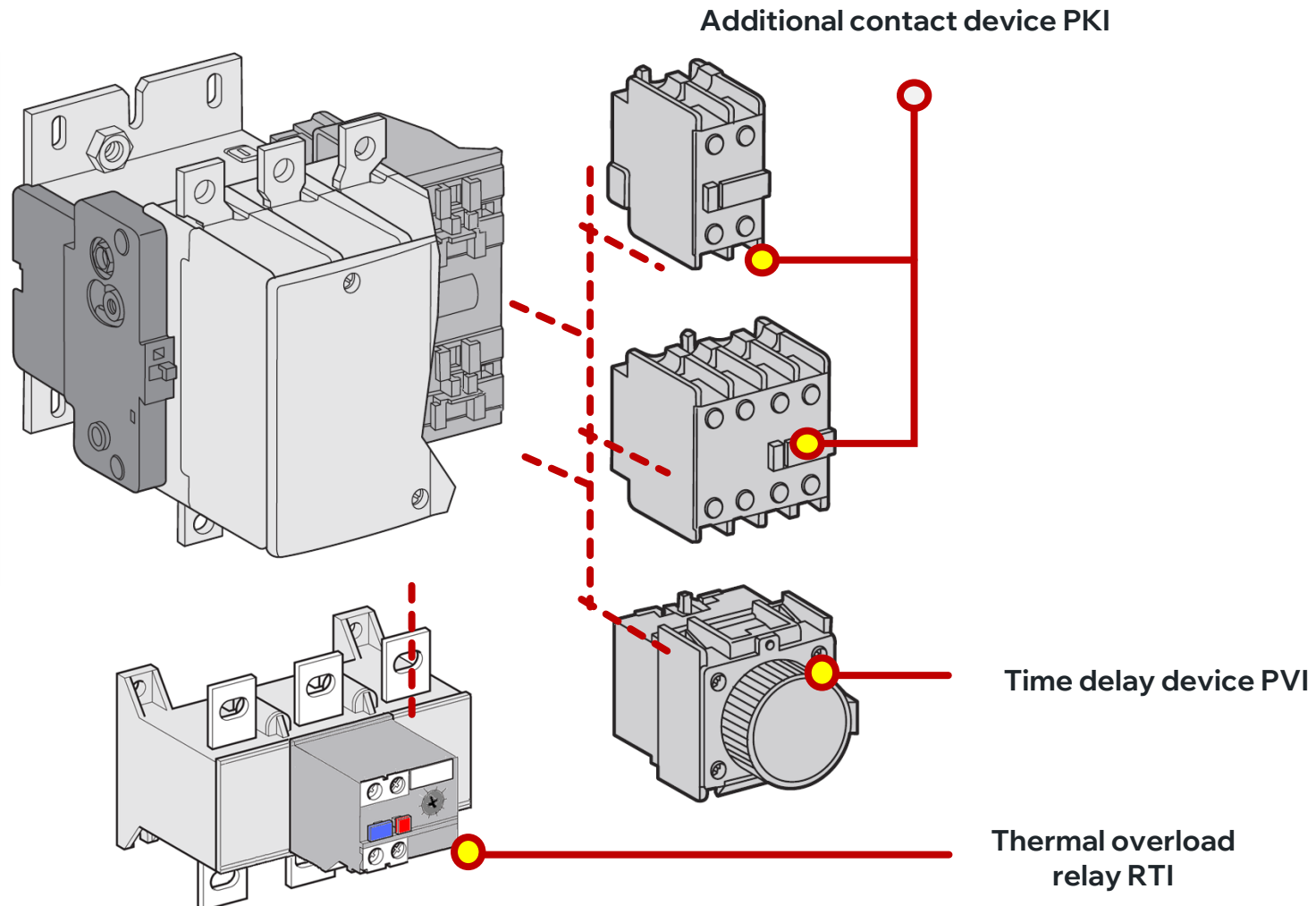


size 7

115 A

1000 A

KTI ACCESSORIES





ARMAT MOTOR PROTECTION

ARMAT MPCB MAIN FEATURES



- Thermal release setting range: 0.1 A – 45 A
- Operating breaking capacity up to 100kA
- 2 sizes
- Electromagnetic type
- Temperature compensation
- Wide range of accessories



MPCB PURPOSE



ARMAT Motor Protection Circuit Breakers designed to control electric drives with three-phase asynchronous electric motors and to protect against overload, short circuits and open-phase operating modes)

MOST COMMON FAILURE REASONS



Most cases of emergency electric motor failures are caused by damage to the winding due to its overheating: destruction of the insulation causes a subsequent interturn short circuit, and the motor fails.



The low coefficient of dependence of the transmitted current on temperature allows you to avoid false alarms at elevated temperatures around the device and ensure stable operation of the electrical installation in emergency modes

[illegible]

ARMAT MPCB ACCESSORIES



- Extended handle
- IP65 shell
- Shunt release
- Undervoltage release with early tripping
- Undervoltage release
- Additional transverse/lateral contact
- Additional emergency contact transverse/lateral





MASTER MOTOR PROTECTION



MASTER MPCB





MODULAR EQUIPMENT

MODULAR EQUIPMENT



MCB



RCCB



RCBO



STRENGTH
CONSTRUCTION



HIGH TRIPPING
SPEED



VERSATILITY



RESOURCE
10,000 CYCLES



IMPROVED ARC
CHUTE



STANDART
COMPLIANCE



10 YEARS
WARRANTY

Miniature Circuit Breaker (MCB)



0,5...125 A

Nominal current

B,C,D,Z,L,K

Mechanical wear resistance

1...4

Poles

-60...+70 °C

Operating temperature range

6 / 10 / 15 kA

Breaking capacity

10 years

Warranty

15 years

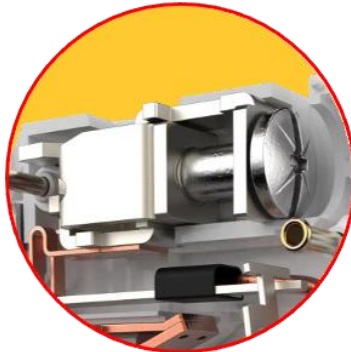
Life time

ADVANTAGES



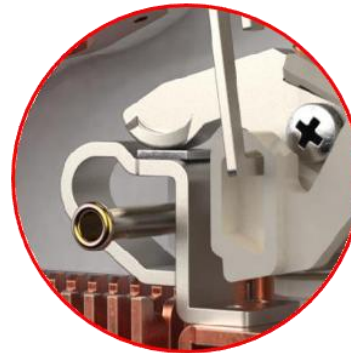
Safety shutters

Protection against incorrect connection



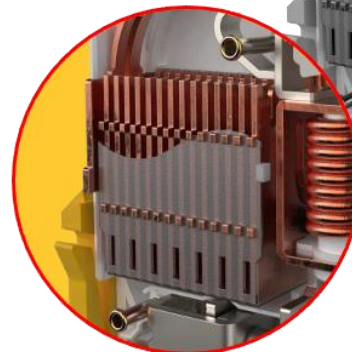
Soldering contact

Made of silver-based composite material AgC4



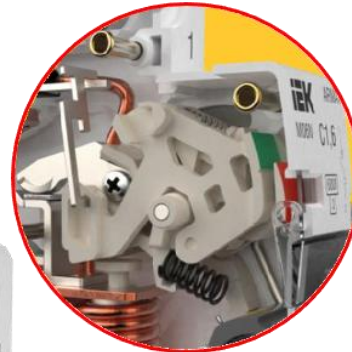
Arc suppression chamber

14 copper-plated plates, wedge-shaped cut-out, gas-generating non-stick screens - effectively extinguish electric arcs



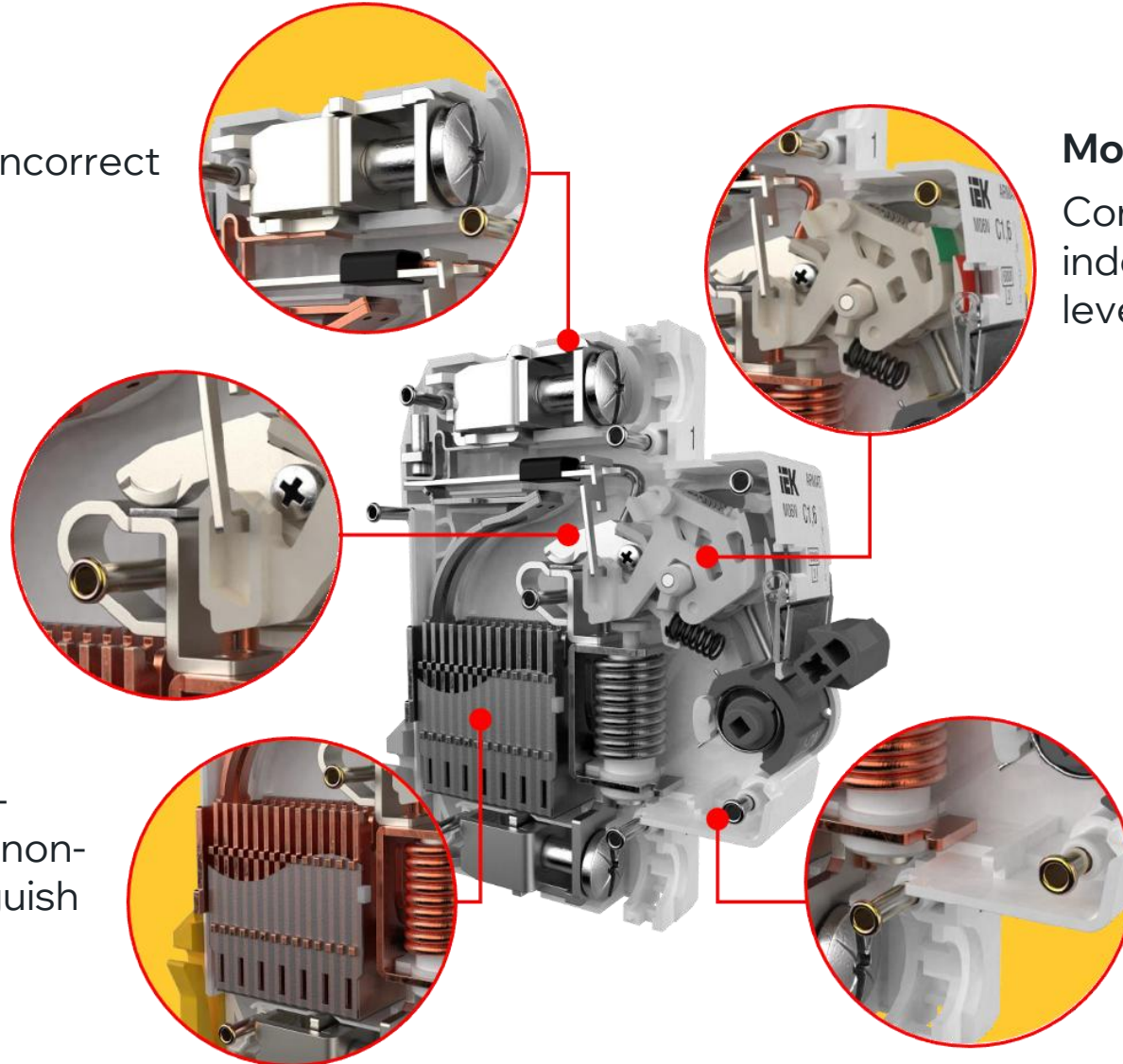
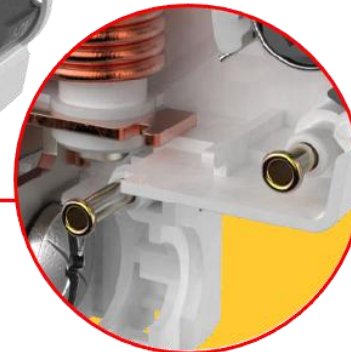
Modern release mechanism

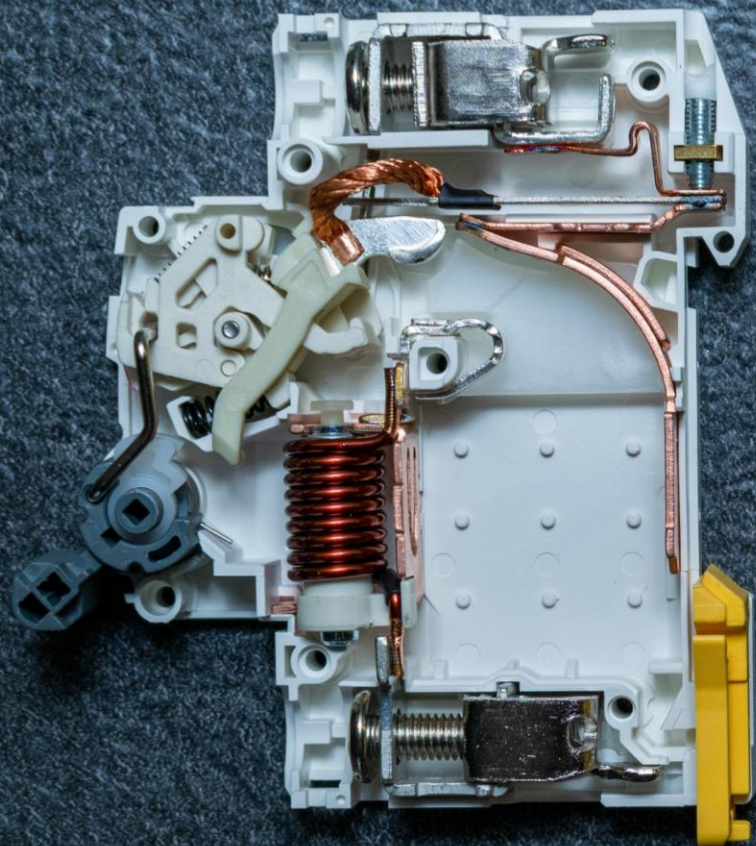
Contact closure speed is independent of the cocking lever movement speed



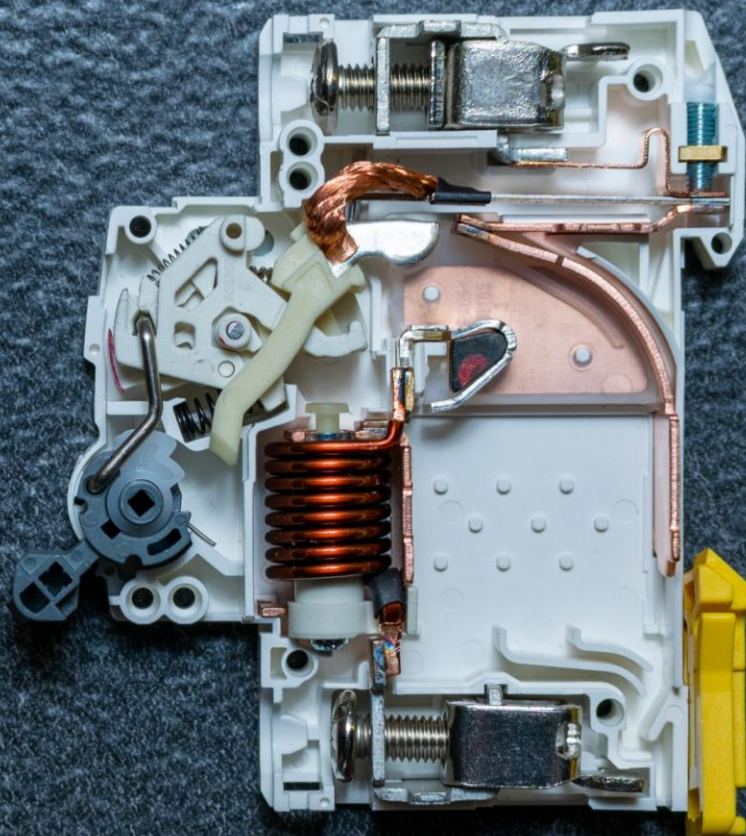
Robust housing

8 rivets for high terminal torque





AC



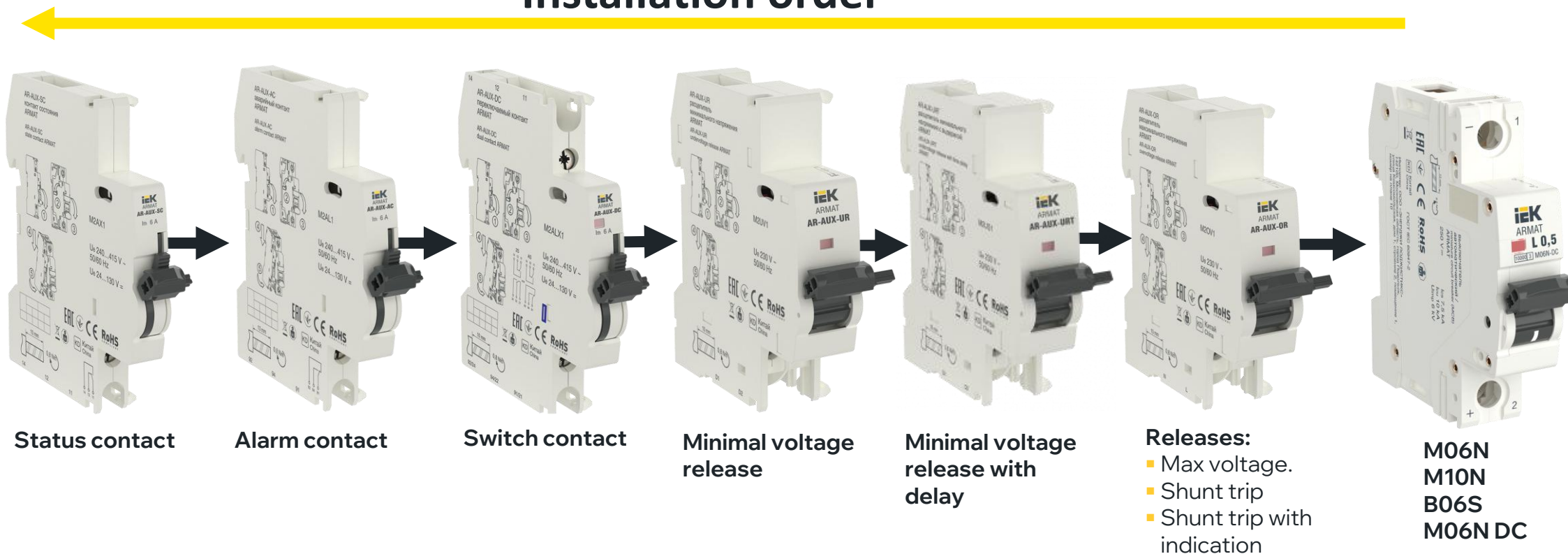
DC



AUXILIARIES CONNECTION



Installation order



RESIDUAL CURRENT CIRCUIT BREAKER (RCCB)



25...100 A

Nominal current

10...300 mA

Residual current

2/4

Number of poles

-25...+40 °C

Operating temperature range

AC, A, AC-S, A-S

Type of protection

10 000 A

Breaking capacity

Electromechanical

Type

RCCB ADVANTAGES



Main contacts status indicator

Shows the exact status of the main contacts, regardless of the position of the cocking handle (if it is locked).

Release mechanism

Is a device of independent action, which allows it to work even when the handle is locked.

Visual indication

Residual current trips



6...32 A
Nominal current

B, C
Time/current characteristic

10/30 mA
Residual current

Electronic
Type

1P+N (18 mm)
Number of poles

AC, A
Type of protection

RCBO ADVANTAGES



Robust housing

8 rivets for high terminal tightening torque.



TEST button

To check the performance of the RCBO.



Main contacts status indicator

Shows the exact status of the main contacts, regardless of the position of the cocking handle (if it is locked).



Manual control lock

Can be locked in extreme positions. When enabled, this will not block the free trip mechanism.



SWITCH-DISCONNECTOR



16...125 A

Nominal current

1...4 p

Number of poles

400 V

Rated operating voltage AC

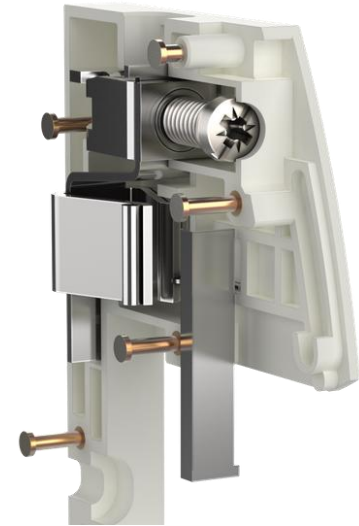
48 V

Rated operating voltage DC

AC-22A

Application category

HOT SWAP MODULE



HANDLE AND TERMINAL LOCK



OTHER ACCESSORIES





KARAT MODULAR EQUIPMENT



KARAT MODULAR EQUIPMENT RANGE



KARAT



MCB 4,5kA



MCB 6kA



RCCB



RCBO 4,5kA



RCBO 6kA



MCB accessories



Contactors

KARAT MCB



VA47-29



I_n	0,5 ... 63 A
I_{cu}	4 500 A
Poles	1, 2, 3, 4
Characteristic	B, C, D
Resource	
⚙️	20 000
⚡	6 000

VA47-60M



I_n	1 ... 63 A
I_{cu}	6 000 A
Poles	1, 2, 3, 4
Characteristic	B, C, D
Resource	
⚙️	20 000
⚡	8 000

KARAT MCB ACCESSORIES



- Status contact
- Emergency contact
- Shunt release
- Release min. and max. voltage

VA47-29

VA47-60M

KARAT RCBO AD



AD12 AD14



I_n	6 ... 63 A
$I_{\Delta n}$	10 ... 300 mA
I_{cu}	4 500 A
Poles	2, 4
Type	AC
Characteristic	B, C

AD12M



I_n	10 ... 63 A
$I_{\Delta n}$	30 mA
I_{cu}	4 500 A
Poles	2
Type	A
Characteristic	B, C

KARAT RCBO AVDT



AVDT32



AVDT32EM



AVDT34

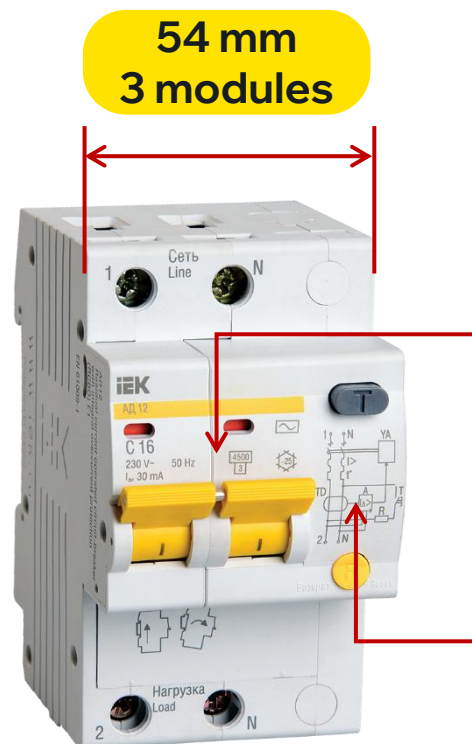


AVDT32ML



I_n	6 ... 63 A	I_n	6 ... 63 A	I_n	6 ... 63 A	I_n	6 ... 32 A
$I_{\Delta n}$	10 ... 300 mA	$I_{\Delta n}$	10 ... 300 mA	$I_{\Delta n}$	100, 300 mA	$I_{\Delta n}$	10 ... 100 mA
I_{cu}	6 000 A	I_{cu}	6 000 A	I_{cu}	6 000 A	I_{cu}	6 000 A
Poles	1+N	Poles	2P	Poles	3+N	Poles	1+N
Type	A	Type	A	Type	A	Type	AC, A
Characteristic	B, C	Characteristic	B, C	Characteristic	C	Characteristic	B, C

COMPARISON OF AD AND AVDT



AD12



**AVDT32
AVDT32EM**



AVDT32ML

KARAT RCCB VD



VD3-63 type AC



I_n	16 ... 100 A
$I_{\Delta n}$	10 ... 300 mA
I_{cu}	6 000 A
P	2, 4
Type	AC

VD3-63 type A



I_n	16 ... 63 A
$I_{\Delta n}$	10 ... 300 mA
I_{cu}	6 000 A
P	2, 4
Type	A

VD3-63S



I_n	25 ... 80 A
$I_{\Delta n}$	100, 300 mA
I_{cu}	6 000 A
P	2, 4
Type	AC



KARAT KM MODULAR CONTACTOR



20...63 A

Rated current

230 and 400 V

Rated voltage

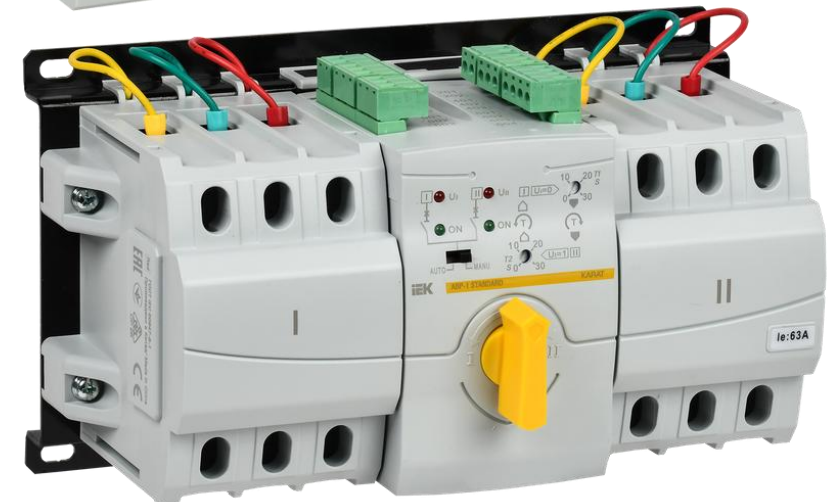
Automatic/Manual

Control

Additional contacts

Possibility to install additional contacts (1NO+1NC, 2NO)

OTHER ACCESSORIES



ARMAT PROJECT BENEFITS



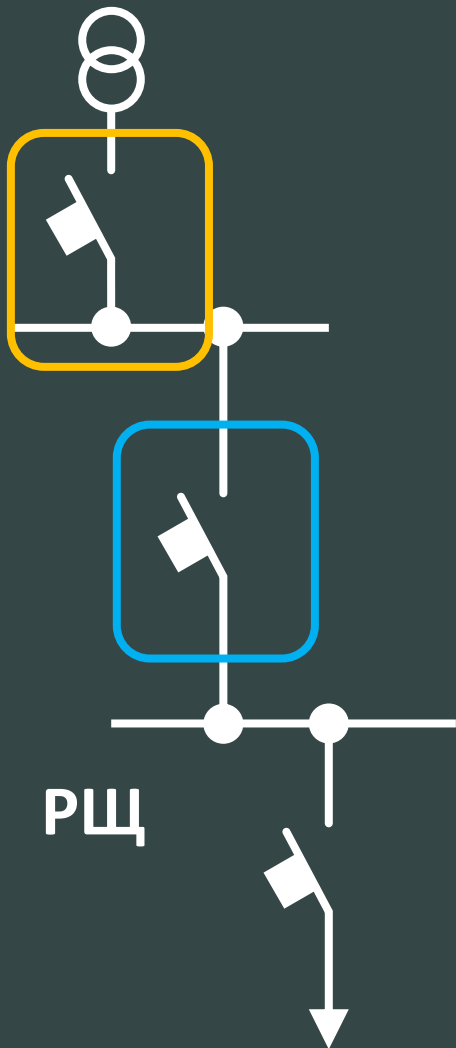
Requirements:

- ☐ The customer wants high-quality equipment;
- ☐ The customer has previously worked with top-brand equipment ABB, SE, Siemens;
- ☐ IEK and partners have access to the customer's technical service;

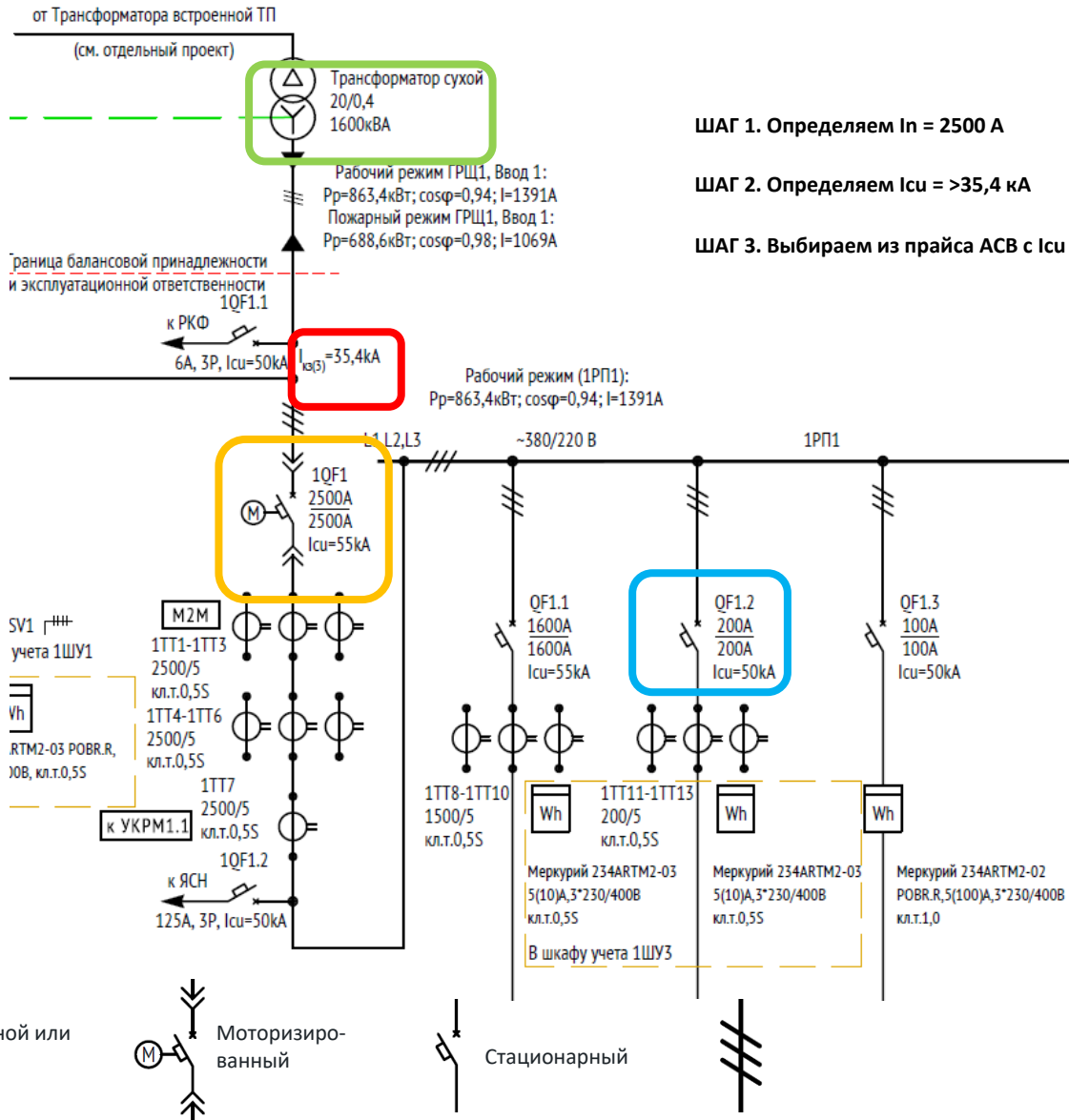
What the project participant gets:

- ☐ Panel builder will be able to protect the budget due to the high technical characteristics of the equipment;
- ☐ IEK will help the panel builder to justify the high cost of the equipment due to the correct positioning of the equipment;
- ☐ The chief power engineer of the customer gets reliable equipment and does not bear operating costs in the future;
- ☐ Panel builder gets protection for the project by IEK project policy;
- ☐ Panel builder profitably acquires equipment for the project due to the possibility of forming special codes for the equipment.

ГРЩ



РЩ

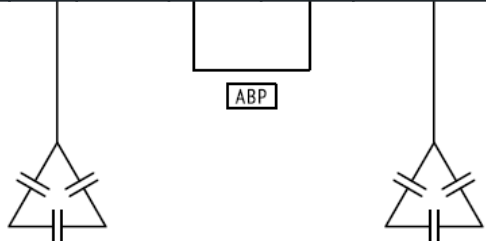


ШАГ 1. Определяем $I_n = 2500\text{ A}$

ШАГ 2. Определяем $I_{cu} > 35,4\text{ kA}$

ШАГ 3. Выбираем из прайса АСВ с $I_{cu} = 55$

Sr, кВа	Uk, %	Ir (Транс), А	Ib (Шина), А	Ik	In аппарата, А	Уставка
x 63	4	91	91	2,2	100	0,92
1 x 100	4	144	144	3,6	160	0,91
1 x 125	4	180	180	4,5	200	0,73
1 x 160	4	231	231	5,7	250	0,93
1 x 200	4	289	289	7,2	320	0,91
1 x 250	4	361	361	8,9	400	0,91
1 x 315	4	455	455	11,2	630	0,73
1 x 400	4	577	577	14,2	630	0,92
1 x 500	4	722	722	17,7	800	0,91
1 x 630	4	909	909	22,3	1000	0,91
1 x 800	5	1155	1155	22,6	1250	0,93
1 x 1000	5	1443	1443	28,1	1600	0,91
1 x 1250	5	1804	1804	34,9	2000	0,91
1 x 1600	6,25	2309	2309	35,7	2500	0,93
1 x 2000	6,25	2887	2887	44,3	3200	0,91
1 x 2500	6,25	3608	3608	54,8	4000	0,91
1 x 3125	6,25	4510	4510	67,7	5000	0,91
1 x 4000	6,25	5774	5774	92,3	6300	0,92



WHY $I_{cu}=35kA$ IS OFTEN MORE THAN SUFFICIENT?



Transformer Power (kVA)	Distance / Connection Method	Expected Isc at MLVS/MDB (kA)	Is $I_{cu}=35kA$ Sufficient?	Comment
<= 400	Any reasonable	<15	Yes, with large reserve	Our breakers are ideal. 50kA not needed.
630	Cable 10-30m	10 - 15	Yes, with large reserve	See Example 2.
630	Busway 5m	~15-18	Yes, with reserve	
1000	Cable 10-30m	15 - 22	Yes, with reserve	See Example 1.
1000	Busway 5m	~20-25	Yes	
1600	Cable 10m	~20-25	Yes	
1600	Cable 30m	~15-18	Yes, with reserve	
1600	Busway 5m	~30-35	Borderline / Need to verify	Precise calculation needed. 50kA may be required.
2500	Busway 5m	>50	No	Requires 50kA or higher breaker.
2500	Cable 30m	~20-25	Yes	Cable resistance significantly reduces Isc.

TOOLS FOR PROMOTION



Technical catalogs



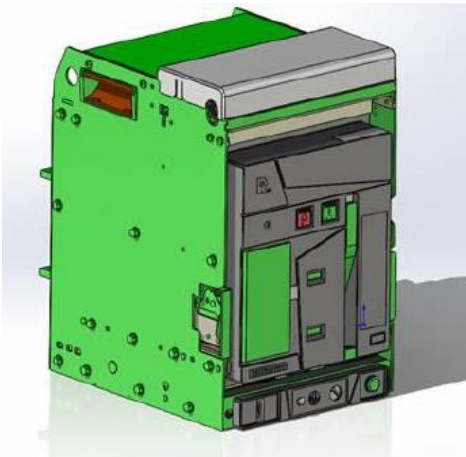
Software for CB selection

IEK ПОДБОР СИЛОВОГО АВТОМАТИЧЕСКОГО ВЫКЛЮЧАТЕЛЯ ARMAT

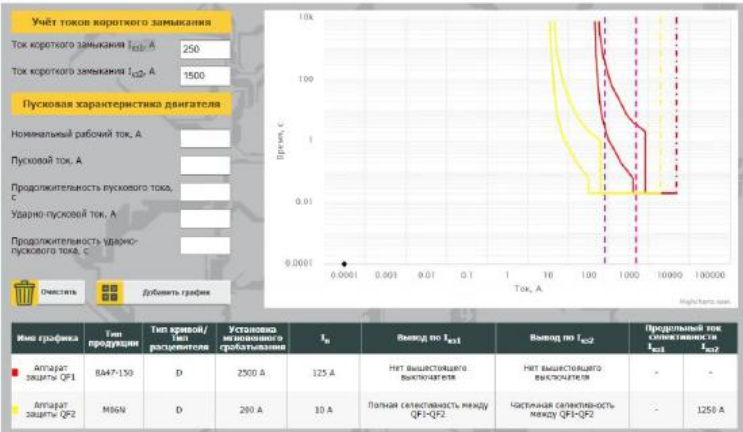
ВОЗДУШНЫЙ АВТОМАТИЧЕСКИЙ ВЫКЛЮЧАТЕЛЬ (АСВ)		АВТОМАТЫ В ЛИТОМ КОРПУСЕ (МССВ)	
Тип изделия:	Выбрать	Исполнение:	Выбрать
Количество полюсов: <td>Выбрать</td> <td>Номинальный ток (In), А:<td>Выбрать</td></td>	Выбрать	Номинальный ток (In), А: <td>Выбрать</td>	Выбрать
Отключающая способность (Icu), кА: <td>Выбрать<td>Типоразмер:<td>Выбрать</td></td></td>	Выбрать <td>Типоразмер:<td>Выбрать</td></td>	Типоразмер: <td>Выбрать</td>	Выбрать
Тип расцепителя: ? <td>Выбрать</td> <td colspan="2"> Сбросить фильтр </td>	Выбрать	Сбросить фильтр	
☐ Можно выбрать выключатель по параметрам расцепителя:			

Корзина		
Артикул	Наименование	Кол-во

STEP and CAD models database



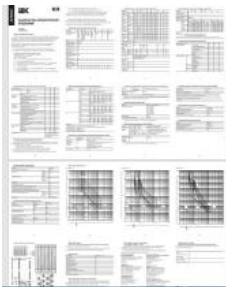
Selectivity calculator



User manuals

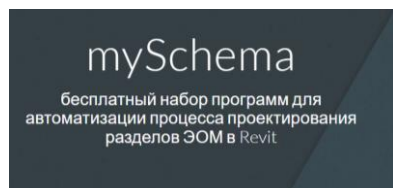


Passports in Vietnamese





- EOM plugins:



- Libraries

Plans:

Addition of libraries (2025)

MKNS plugin (12.2024)

Busbar plugin (2025)

SCS plugin (2025)



AVEVA



Plans:

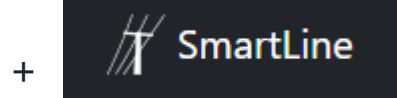
Model studio equipment bases (ESHO?, ONI?, NVA?EUI?)

EPLAN equipment bases (ESHO? ONI? NVA?)





- DWG-чертежи оборудования
- STEP-модели
- Плагины



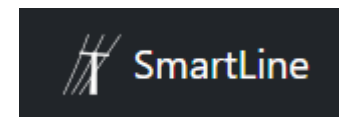
- + Плагин для динаблоков МКНС;
- + Плагин для ШП;

Планы:

- Динаблоки ЭОМ (2025)



- DWG-чертежи оборудования
- STEP-модели
- Плагины



- Динаблоки МКНС

Планы:

- Динаблоки ЭОМ (2025)



GENERATION



ТРИНИТИ
РОСАТОМ

Electricity supply of the institute



СИБИРСКАЯ
ГЕНЕРИРУЮЩАЯ
КОМПАНИЯ

Supply of 0.4kV equipment for
Krasnoyarskaya CHPP-3



РОСЭНЕРГОАТОМ
КУРСКАЯ
АЭС

Supply of 0.4kV equipment for Kursk
NPP-2



TATNEFT

ООО «Нижекамская ТЭЦ»

Reconstruction of power boiler
units



РОСЭНЕРГОАТОМ
БЕЛОЯРСКАЯ
АЭС

Modernization of the main building and
special building of power unit No. 4 of
Beloyarsk NPP



КВАДРА
ГЕНЕРИРУЮЩАЯ
КОМПАНИЯ

Construction of a boiler house in
Voronezh city



РФЯЦ-ВНИИЭФ
РОСАТОМ

Electric power supply of building No.
37 of Sedakov Research Institute of
Scientific and Research Institute of
Information Technologies of the
Russian Academy of Sciences (NIIS)



ТЕПЛОВАЯ КОМПАНИЯ
НОВГОРОДСКАЯ

Modernization of boiler houses in
the Novgorod region



Supply of solutions for the needs
of Lukoil Energy Networks

INDUSTRY



MIPT Data Center in Dolgoprudnyi



Sberbank Data Center in Balakovo



Bratsk mining farm



Reconstruction of the plant



Plant power supply



KIA MOTORS

ARMAT and LEDEL solutions for full cycle factory in Kazakhstan



Supply of ARMAT solutions for the power supply of the factory



Reconstruction of a brick factory



Reconstruction of the plant

METALLURGICAL INDUSTRY

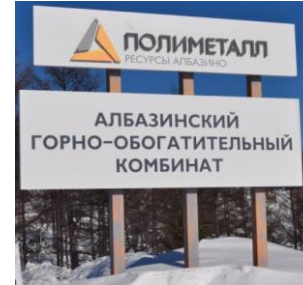


MMK reconstruction 3rd stage

МЗ

БАЛАКОВО

Power supply to the new workshops of the Balakovo plant



ARMAT solutions for power supply of Albazinsky Mining and Processing Plant



РУСАЛ

ARMAT solutions for the needs of RUSAL Group



БЕЛОРУССКИЙ
МЕТАЛЛУРГИЧЕСКИЙ
ЗАВОД

Reconstruction of the power supply shop



Reconstruction of rolling shops 1,2,3,4,5 and blast furnace shop



ПАО «Алчевский
металлургический
комбинат»

Reconstruction of the plant

OIL AND GAS



TANECO Combined hydrocracking unit, oil pump control stations



Supply of equipment for the Ust-Luga complex



Reconstruction of LPDS



Ust-Luga Ultramar mineral fertilizer transshipment port



Pravdinskoye Prirazlomnoye field



Reconstruction of mines

AGRICULTURE



INFRASTRUCTURE



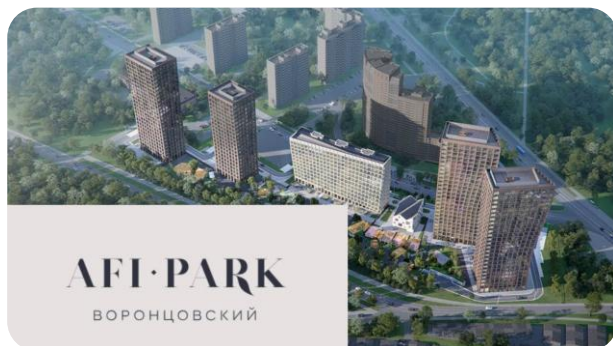
ЖК Шагал

ЭТАЛОН

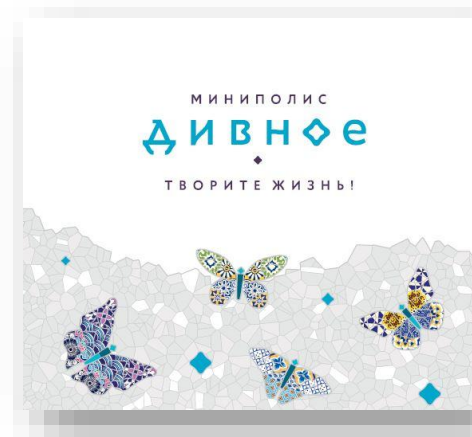


Райффайзен
БАНК

Branch Ave. Andropova



Residential Complex Symbol



Residential Complex Divnoe Minipolis

INFRASTRUCTURE



Renovation, Mozhaisky, Gorbunova str.



Yuntolovo Residential Complex, St. Petersburg



House Chkalov, Kursk station



Botanika Residential Complex, Izhevsk



Rubin Residential Complex, Rostov-on-Don

INFRASTRUCTURE



Business Center Meridian,
Leninsky 160

SAVIN
CITY

Residential Complex Savin
City Kazan



FORUM Center SibAgro Tomsk



Grand Line administrative building Kaluga



г. Nizhny Tagil Bright City, Safe City

IEK GROUP TRUSTED

