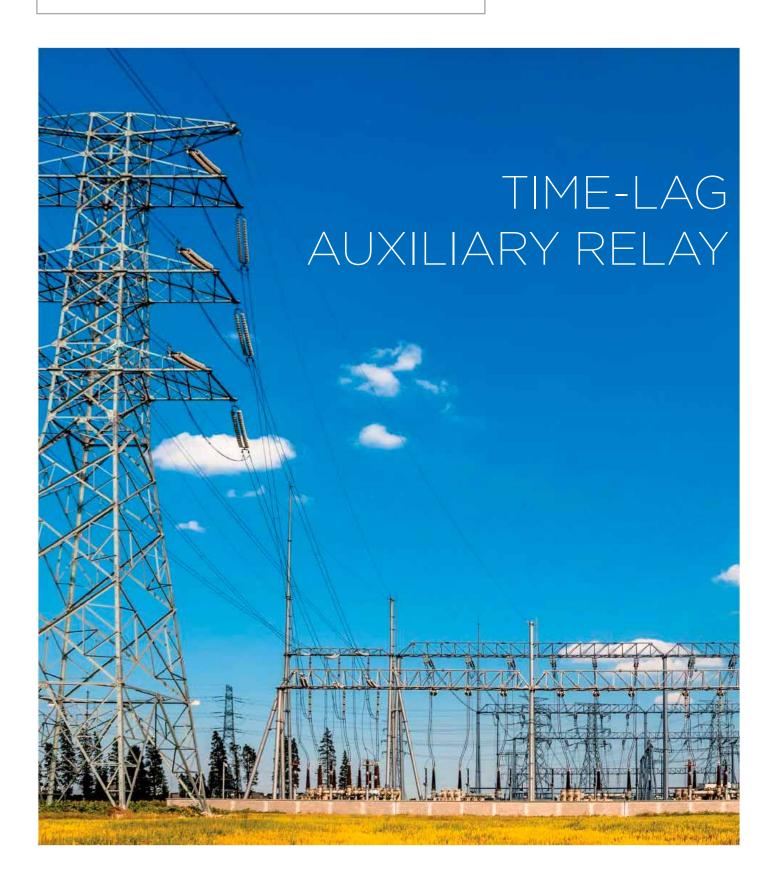
### Výhradní zastoupení pro ČR a SR:

Rail Comp s.r.o. Pražského 602/26 152 00 Praha 5 Česká republika



arteche

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# INDEX

- 4. Answers for any application
- 5. > General characteristics
- 6. Technical standards
- 7. > Functional characteristics
- Selectable functions
- 10. > Range of products
- 13. > Breaking capacity
- 18. > Pick-up voltage/release voltage-temperature charts
- 20. > Model selection
- 22. Dimensions and panel mounting cut-off



# ANSWERS FOR ANY APPLICATION

ARTECHE relays are designed to guarantee the best features and complete security even in the harshest environment. Only thus it is possible to have more than 3,000,000 working relays all over the world.

The action of the output contacts of the time-lag relays is directed by a timing. This timing can be pick-up timing, drop-out timing or cyclic timing ... very accurate timing ranges from a few milisecond till several hours, all of them available in the same relay.

The time-lag relay needs auxiliary supply, in order to operate. Both the auxiliary supply and the command signal can be independent. In the event that the command signal and the auxiliary supply share the same power supply, you must choose the option "Dependent command signal". If both signals come from different power supplies you must choose "Independent command signal" ( please see pg. 20, in order to choose the corresponding number from the model selection table).



#### **ELECTRICAL UTILITIES**

- > Direct operation upon MV / HV (circuit breaker, sectionalizer).
- > Timings where high accuracy time measure is needed.
- > Specific relays for nuclear power plants.
- Contact multiplication in power plants and HV / MV substation controls.

#### **RAILWAYS**

- > Traction Substation and Traction system.
- > Door opening and closing control in trains.
- > Lighting system actuation.

# HEAVY INDUSTRY (PETROCHEMICAL, CONCRETE, IRON INDUSTRY,...)

- > Critical process surveillance.
- > Alarms for signalization and telecontrol.

#### **ADVANTAGES**

- > Multifunction time lag relays with multi time setting ranges.
- > Relays designed for working in permanence in the whole voltage range in high temperature environments.
- > Self cleaning contacts.
- > Adapted to vibration and seismic conditions (EN61373 Standard).
- > Security contacts and voltage range +25% 30% of nominal voltage, for high security applications.
- > Easy installation (plug in relays, sockets for DIN rail).
- No maintenance.
- > Possibility of working in 100% relative humidity ambiences.





# GENERAL CHARACTERISTICS

The main features of ARTECHE's auxiliary relays are the followings:

- > Security contacts (EN 50205 Standard).
- Capable to withstand vibrations and seismic conditions (EN 61373; IEEE 344; IEEE 323; IEEE C37.98 Standards).
- Capable to operate under low duty loads, activate digital inputs, and operate without any load.
- > Wide range of auxiliary voltage levels (Vdc and Vac).
- > Sturdy design.
- > Self-cleaning contacts.
- Designed to allow continuous operation even in high temperature ambient, within the whole voltage range.
- High level of electrical insulation between input and output circuits.
- An internal diode is included to avoid damaging the relay when connecting with inverse polarity.
- In compliance with the most demanding test standards: IEC, EN, IEEE and bearing the CE mark.
- High protection degree (IP40), with transparent cover, making them suitable for use in salty and tropical atmospheres.
- Capable to work under ambients with relative humidity around 100%.
- > Simplicity of installation (plug-in relays in a wide range of sockets with different installation configurations).
- > No need of maintenance after installation.





In addition, the different number of alternatives that are offered when the equipment is selected, both technically (increase of the breaking capacity by serial contacts) and in the assembly method (front, rear or flush mounted sockets, with screws or fastons), ...



### TECHNICAL STANDARDS

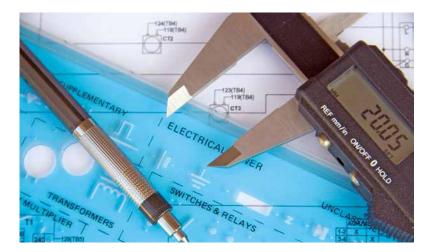
#### RAILWAY APPLICABLE STANDARDS

- > EN 60077 Series. Rolling stock equipment.
  - Part 1: General conditions in service and general terms.
  - Part 2: Electrotechnical components.
- > EN 50155 (IEC 60571 equivalent). Railway applications Rolling stock equipment.
- > IEC 61373. Railway applications Shock and vibration tests.
- > NF F 16-101 y NF F 16-102. Rolling stock fire behaviour.
- > RIA 12. Protection from transient and surges.
- > EN 50121-3-2:2006. Electromagnetic compatibility.
- > EN 50205. Relays with forcibly mechanically guided contacts. WELD NO TRANSFER
- > NF F 70-031. Contact weld resistance tests. NO WELD CONTACTS

#### **GENERAL STANDARDS**

In addition to the specific applicable standards, ARTECHE auxiliary relays are designed based on the fulfilment of the following standards:

- > IEC 61810: Electromechanical all-or-nothing relays.
- > IEC 60255: Electrical relays. Measuring relays and protection equipment.
- > IEC 61812: Specified time relays for industrial use.
- > IEC 60947: Low-voltage switchgear and controlgear.
- > IEC 61000: Electromagnetic compatibility.





E322124

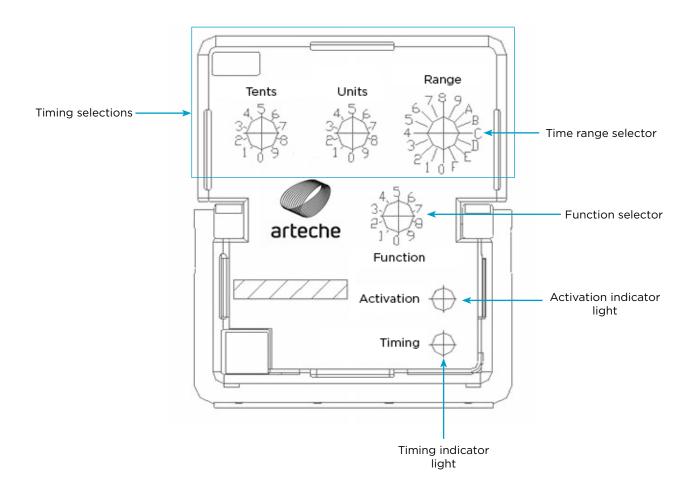
UL Recognized Component Marks for USA and Canada: The combined UL signs for the USA and Canada are recognized by the authorities of both countries. All auxiliary relays identified with this mark meet the requirements of both countries.



### **FUNCTIONAL CHARACTERISTICS**

ARTECHE time-lag relays allow 16 timing ranges (from 30 ms to 99h) and 10 different functions (F0, F7, F9: pick-up timing - F1: pickup timing acceleration - F2, F3, F8: drop-out timing - F6: flashing timing - F4, F5: special timing). All of it being easily adjustable from the front of the relay. According to the most demanding test standards: IEC, EN, IEEE, and bearing the CE mark.

The great power of the output contacts makes possible direct action on HV and MV switchgear, because their making/breaking capacities, continuous through-current and overvoltage capacity guarantee perfect insulation. Absolutely reliable for use in salty, tropical atmospheres, and in general in those atmospheres which need protection with transparent cover.





#### **TIMING**

To choose the desired timing, the relays have 3 selectors available on the front part: All the selectors are of discrete step not continuous, and for this reason the arrow cannot stay in an intermediate position.

The 16 position selector with the indication "Range", on top right part, allows to choose between the different 16 time ranges available. Each of the ranges is determined by a low limit and a top limit, as well as, by a step, as it is shown in the following table. This same table is printed on the left side of the relay.

Range	Low Limit	Top Limit Step	
0	30 ms	990 ms	10 ms
1	30 ms	2,97 s	30 ms
2	O,1 s	9,9 s	100 ms
3	0,2 s	19,8 s	200 ms
4	0,5 s	49,5 s	0,5 s
5	1s	99 s	1 s
6	3 s	297 s	3 s
7	5 s	495 s	5 s
8	10 s	990 s	10 s
9	0,5 min	49,5 min	0,5 min
Α	1 min	99 min	1 min
В	3 min	297 min	3 min
С	5 min	495 min	5 min
	10 min	990 min	10 min
E	0,5 h	49,5 h	0,5 h
F	1 h	99 h	1 h

- > NOTE 1: If the tens selector is placed on the 0 and the unit one on the 0 or on the 1, the relay temporizes the step of the selected range.
- > NOTE 2: As the relay cannot temporize less than 30 miliseconds, if by the selectors it is chosen an option that would suppose a timing lower than this value, the relay will temporize 30ms. (for example, if it is selected the range 0, tens 0, and units 1 or 2, according to what was mentioned on the preceding page, the timing would be 10 ms or 20 ms respectively, but the relay will temporize 30 ms as it is the minimum timing limit). On the rest of the positions the timing will be the selected value.
- > NOTE 3: If all the selectors are placed on 0 (Tens 0, Units 0, Range 0 and Function 0), the timing will be disabled and the relay will operate in the minimum time possible (electronical and mechanical initialization delay). This time is a bit lower than 20ms. In a relay with an instantaneous coil, both coils the instantaneous and the time-lag will operate at the same time.
- NOTE 4: The accuracy of the timing will be ±5ms or ±1%, the one which is higher.

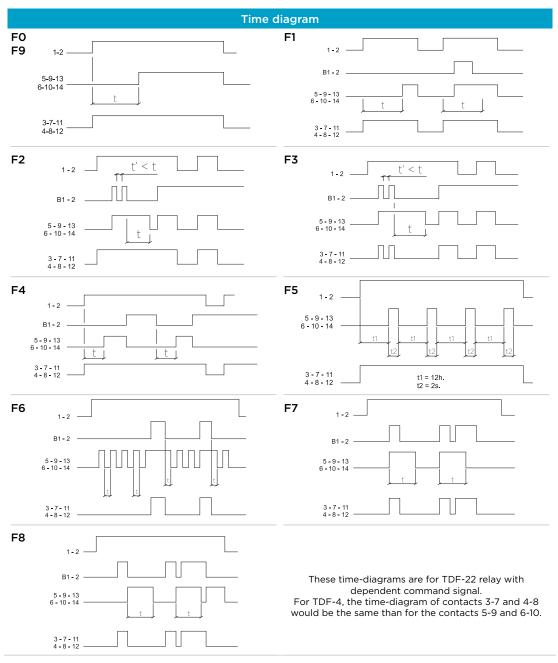


### SELECTABLE FUNCTIONS

Below the 3 timing selector in TDF and TDJ models, there is a forth 10 position selector, which allows to choose the different functions that the relay can execute. The way to make the selection is the same as ones explained before, by the point of the arrow.

The time diagrams for each of the functions available are printed on the right side of the relay.

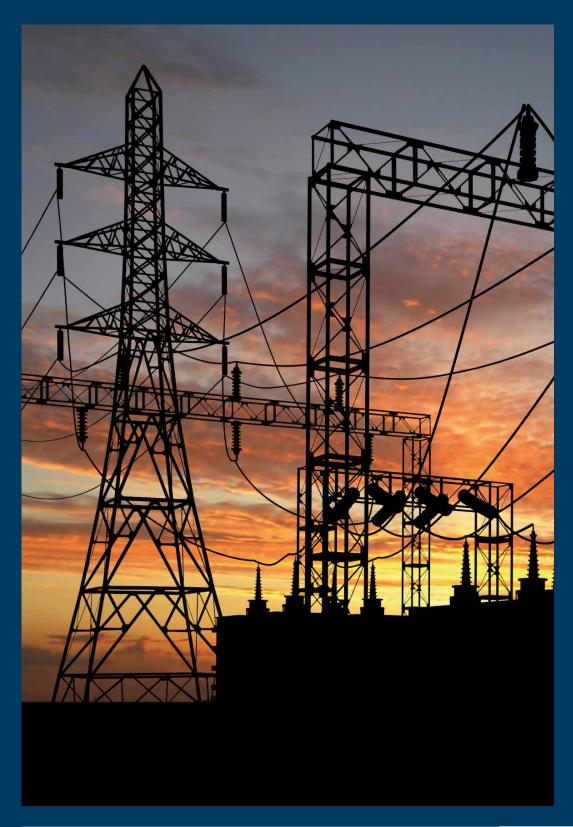
For further information about TDJZ specific functions, please see the chart with its technical features.



- > Function 0: Pick up timing
- > Function 1: Pick up timing with acceleration by external control
- > Function 2: Drop out timing, the instantaneous part of the TDF-22 follow the auxiliary supply
- > Function 3: Drop out timing, the instantaneous part of the TDF-22 follow the external control
- > Function 4: Timing with continuity control
- > Function 5: Permanent cycle timing
- > Function 6: Flashing timing
- > Function 7: Pick up timing
- > Function 8: Drop out timing
- > Function 9: Pick up timing with reduced reseting time



# TECHNICAL FEATURES PER MODEL



World-class range of auxiliary relays for energy sector, specially designed for the most demanding applications



### TIME-LAG RELAYS (I)

Model (1)					
			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
Applications		Electrical command timing			
Construction characteristics					
Timing Contacts no.	2 Changeover	4 Changeover	2 Changeover		
Instantaneous contact no.	0 Changeover	0 Changeover	2 Changeover		
Connections	DEPENDENT CONTROL  A1	DEPENDENT CONTROL  BI AI  1 1 2 -	DEPENDENT INDEPENDENT CONTROL  81		
	6 10  DEPENDENT CONTROL  S 2-1 Supply Voltage C A1-1 Control Voltage  INDEPENDENT CONTROL S 2-1 Supply Voltage	13   5   9   14   6   10   16   16   16   16   16   16	13		
Options (With OP options)	C A1-B1 Control Voltage	S 1-2 Supply Voltage C B1-A1 Control Voltage	S 1-2 Supply Voltage C B1-A1 Control Voltage		
Weight (g)					
Dimensions (mm)	42,5 x 50,4 x 96,6 (F large type)				
Coil characteristics					
Standard voltages(1)	24, 48, 72, 96, 110, 125, 220, 250 Vdc/Vac (50-60 Hz)				
Voltage range		0% U <sub>N</sub> (except range 250: +10			
Pick-up / Release voltage	See power su 2,6 W	upply-temperature charts for ti 3,85 W	5,35 W		
Average consumption in permanence $(U_N)$ Operating time	2,0 VV	3,03 VV	5,35 W		
Time range		between 0,03 s and 99 h			
Pick-up time	_	< 23 ms			
Drop-out time	< 50 ms				
Contacts					
Contact type	2 Changeover	4 Chai	ngeover		
Contact material		AgNi			
Contact resistance <sup>(2)</sup>	≤ 30 mΩ	(standard range) $/ \le 15 \text{ m}\Omega$ (	FF range)		
Distance between contacts		1,2 mm			
Permanent current		10 A			
Instantaneous current	30 A during 1 s	s / 80 A during 200 ms / 200	A during 10 ms		
Max. making capacity	40 A, 0,5 s, 110 Vdc	/ 30A, 1 s, 36 Vdc, 30.000 op	erations (1 op/ 15 s)		
Breaking capacity	_	See breaking capacity curves			
Max. breaking capacity	S	see value for 50,000 operation	ns		
U <sub>max</sub> opened contact		250 Vdc / 400 Vac			
General data					
Mechanical endurance	10 <sup>7</sup> operations				
Dielectric strength	2,2 kV (between inde	ependent circuits) / 1,5 kV (bet	ween open contacts)		
Impulse voltage	5 kV (between indep	pendent circuits) / 2,5 kV (bet	ween open contacts)		
Insulation resistance		>1000 GΩ			
Operating temperature	Up to 125Vdc -	40°C +70°C / 220Vdc - 250Vd	dc -40°C +55°C		
Storage temperature	_ =	-40°C +85°C			
Max. operating humidity		93% / +40°C			
Operating altitude <sup>(3)</sup>	<2000 m				

<sup>(1)</sup> Other voltage upon request <sup>(2)</sup> Guarantee data for relays just manufactured



<sup>(3)</sup> Ask for higher altitudes



# TIME-LAG RELAYS (II)

TDJ-8 TDJ-44





Applications		Electrical Co	ommand Timing			
Construction characteristics		2.000.100.100	3aa			
Timing Contacts no.	8 Ch	nangeover	4 Cha	ingeover		
Instantaneous contact no.		O Changeover				
	DEPENDENT CONTROL	INDEPENDENT CONTROL	DEPENDENT CONTROL	INDEPENDENT CONTROL		
	+ <u>d</u> <u>a</u> -	+ d a -	+ d a -	+ d a -		
Connections	10 20 21 30 3 31 40 4 41 50 5 5 51 60 6 61 70 7 71 80	20 2 21 30 3 30 3 31 40 4 41 50 5 51 60 6 61 70 7 71 80	10 20 2 21 30 3 31 40 4 41 5 51 60 6 61 70 70 70 80	1 1 20 20 2 21 INST 30 3 31 5 5 5 5 60 60 60 60 70 7 7 80 80		
	8 8 81	8 81	<u>8</u> <u>81</u>	8 81		
Options (With OP options)	S d-a Supply Voltage C b-a Control Voltage	S d-a Supply Voltage C b-c Control Voltage	S d-a Supply Voltage C b-a Control Voltage	S d-a Supply Voltage C b-c Control Voltage		
Weight (g)			500			
Dimensions (mm)		82,5 x 50,4 x 9	96,6 (J large type)			
Coil characteristics						
Standard voltages <sup>(1)</sup>		24, 48, 72, 96, 110, 125, 2	20, 250 Vdc/Vac (50-60	Hz)		
Voltage range		+25% -30% U <sub>N</sub> (excep	ot range 250: +10% -20%)			
Pick-up / Release voltage	S	ee power supply-temper	ature charts for time-lag	relays		
Average consumption in permanence $(U_N)$		6 W 7,9 W				
Operating time						
Time range		between	0,03 s y 99 h			
Pick-up time		<23 ms				
Drop-out time		</td <td>50 ms</td> <td></td>	50 ms			
Contacts						
Contact type		8 Ch	angeover			
Contact material		,	AgNi			
Contact resistance (2)		$\leq$ 30 m $\Omega$ (standard ran	ige) $/$ ≤ 15 m $\Omega$ (FF range	2)		
Distance between contacts		1,	2 mm			
Permanent current			10 A			
Instantaneous current	30	A during 1s / 80 A durin	g 200 ms / 200 A during	10 ms		
Max. making capacity	40 A, 0	,5 s, 110 Vdc / 30A, 1 s, 36	Vdc, 30.000 operations	(1 op/ 15 s)		
Breaking capacity			capacity curves			
Max. breaking capacity	See value for 50,000 operations					
U <sub>max</sub> opened contact		250 Vd	c / 400 Vac			
General data						
Mechanical endurance			perations			
Dielectric strength		etween independent circ				
Impulse voltage	5 kV (be	tween independent circu		en contacts)		
Insulation resistance			000 GΩ	00 .5500		
Operating temperature	Up to	125Vdc -40°C +70°C /		*C +55*C		
Storage temperature			C +85°C			
Max. operating humidity	93% / +40°C					

Operating altitude<sup>(2)</sup>



<2000 m

<sup>(1)</sup> Other voltage upon request (2) Guarantee data for relays just manufactured

<sup>(3)</sup> Ask for higher altitudes



# TIME-LAG RELAYS (III)

TDJZ-8 TDJZ-44





Applications	Electrical Command Timing with fix pulse of 3 seconds
--------------	---

Applications		nectrical command min	ng with fix pulse of 3 seco	Jilus		
Construction characteristics						
Timing Contacts no.	8 Ch	angeover	4 Changeover			
Instantaneous contact no.		angeover		ingeover		
Connections	DEPENDENT CONTROL  b  + d  a  -  10  11  12  2  2  2  21  30  3  31  40  4  41  50  5  61  60  6  61  70  7  71  80	INDEPENDENT CONTROL  + d a -  1 10 11 20 2 21 30 3 31 40 4 41 50 5 51 60 6 61 70 7 71 80	DEPENDENT CONTROL  b  - d  a  -  10  1  1  2  2  21  30  4  4  41  5  5  5  60  6  60  7  7  7  1  80	INDEPENDENT CONTROL  + d		
Options (With OP options)	8 <u>81</u> S d-a Supply Voltage C b-a Control Voltage	8 <u>81</u> S d-a Supply Voltage C b-c Control Voltage	8 <u>81</u> S d-a Supply Voltage C b-a Control Voltage	8   81   S d-a Supply Voltage C b-c Control Voltage		
Weight (g)			500			
Dimensions (mm)		82,5 x 50,4 x	96,6 (J large type)			
Coil characteristics						
Standard voltages <sup>(1)</sup>		24, 48, 72, 96, 110, 125, 2	20, 250 Vdc/Vac (50-60	Hz)		
Voltage range			ot range 250: +10% -20%)			
Pick-up / Release voltage	See power supply-temperature charts for time-lag relays					
Average consumption in permanence (U <sub>N</sub> )	6 W 7,9 W					
Operating time						
Time range		between	0,03 s y 99 h			
Pick-up time	<23 ms					
Drop-out time	<50 ms					
Contacts						
Contact type		8 Ch	angeover			
Contact material	_		AgNi			
Contact resistance (2)	_	≤ 30 mΩ (standard rar	nge) / ≤ 15 mΩ (FF range	2)		
Distance between contacts		1,	2 mm			
Permanent current			10 A			
Instantaneous current	30	A during 1s / 80 A durin	g 200 ms / 200 A during	10 ms		
Max. making capacity	40 A, 0,	5 s, 110 Vdc / 30A, 1 s, 36	6 Vdc, 30.000 operations	(1 op/ 15 s)		
Breaking capacity		See breaking	g capacity curves			
Max. breaking capacity		See value for	50,000 operations			
U <sub>max</sub> opened contact		250 Vd	c / 400 Vac			
General data						
Mechanical endurance		10 <sup>7</sup> o	perations			
Dielectric strength	2,2 kV (between independent circuits) / 1,5 kV (between open contacts)					
Impulse voltage	5 kV (between independent circuits) / 2,5 kV (between open contacts)					
Insulation resistance	>1000 GΩ					
Operating temperature	Up to 125Vdc -40°C +70°C / 220Vdc - 250Vdc -40°C +55°C					
Storage temperature	-40°C +85°C					
Max. operating humidity		93%	/ +40°C			
Operating altitude <sup>(2)</sup>		<2	000 m			
Specific functions						
<u>1E</u>		Pick up timir	ng, fix pulse of 3s			
4E, 5E, 6E, and 7E		No fuction. C	pen to new ones			

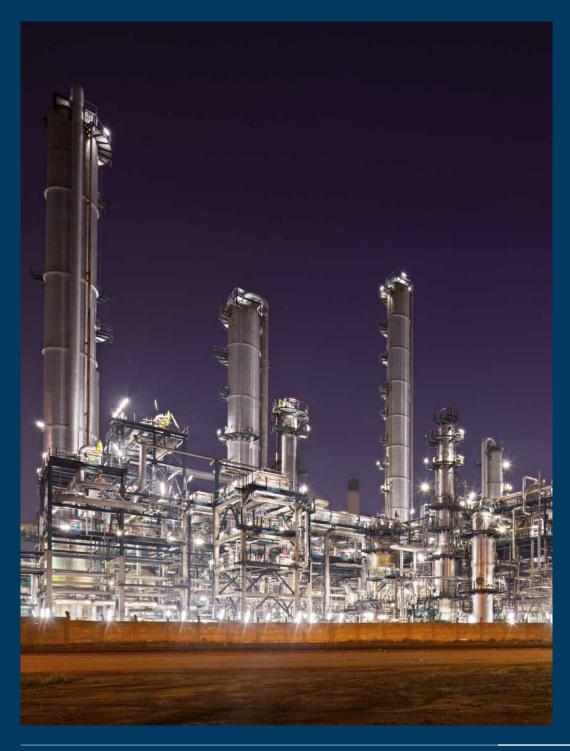


<sup>&</sup>lt;sup>(1)</sup> Other voltage upon request <sup>(2)</sup> Guarantee data for relays just manufactured

<sup>(3)</sup> Ask for higher altitudes



# BREAKING CAPACITY



With devices operating worldwide, also heavy industries like oil & gas sector trust in our relays.



### **BREAKING CAPACITY**

The breaking capacity is a critical parameter on the design and the applications of the relays. Its mechanical life could be considerably reduced, depending on the value of the load (especially with heavy duty loads), the number of operations and the environmental conditions in which the relay is operating.

In any configuration, ARTECHE's auxiliary relays have a high breaking capacity values. These limits are showed in the table below, in terms of power and current values. In all the cases, these relays guarantee a right performance during 50,000 operations.

Likewise, the values showed in the following charts have been obtained in standard conditions in the laboratory, and they could be different in real conditions. In any case, connecting serial contacts or a bigger distance between contacts makes these values to be considerably increased.

# 24 Vdc voltage Different loads configurations.

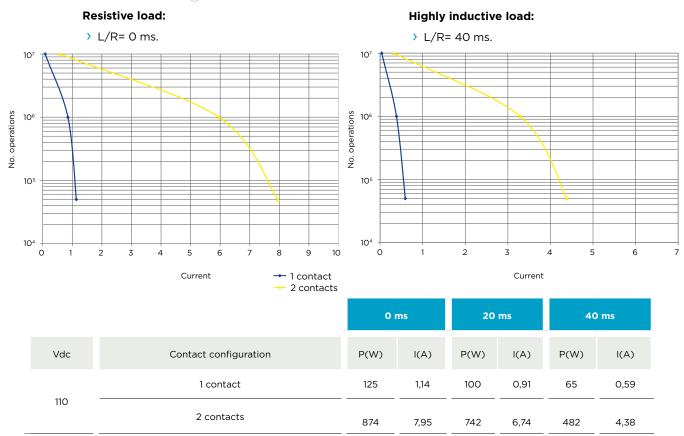
#### **Resistive load:** Highly inductive load: > L/R= 0 ms. > L/R= 40 ms. 10<sup>7</sup> 10 10<sup>6</sup> 10<sup>e</sup> No. operations No. operations 10<sup>5</sup> 105 104 104 10 20 Current Current





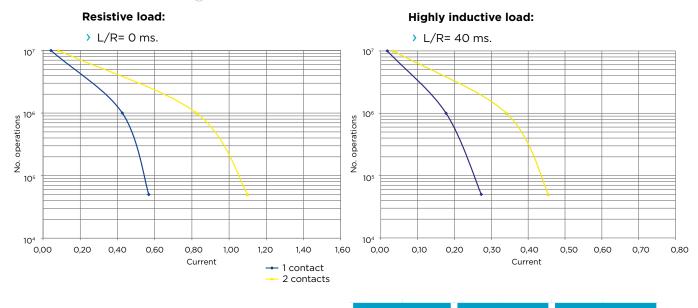
### 110 Vdc voltage

Different loads configurations.



### 220 Vdc voltage

Different loads configurations.



		0 1	ns	20	ms	40	ms
Vdc	Contact configuration	P(W)	I(A)	P(W)	I(A)	P(W)	I(A)
	1 contact	125	0,57	104	0,47	60	0,27
220	2 contacts	242	1,10	177	0,81	100	0,45



# HOW THE BREAKING CAPACITY CAN BE INCREASED

ARTECHE's auxiliary relays are power relays, designed specially to have a high breaking capacity. Thus, there are applications where the loads are so high that it is necessary to even increase the breaking capacity, keeping the reliability of the contacts of the auxiliary relays.

Thus, ARTECHE relays have the following alternatives and recommendations:

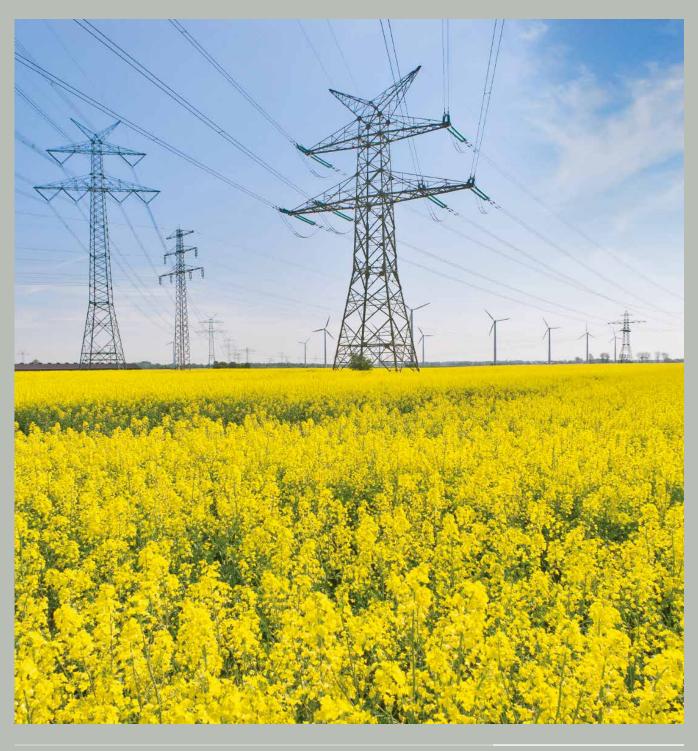
Possibility of external connection of equipment (serial contacts) getting an important increase of breaking capacity in these equipment is shown, guaranteeing the right performance during a high number of operations.







# PICK-UP VOLTAGE/RELEASE VOLTAGE-TEMPERATURE CHARTS

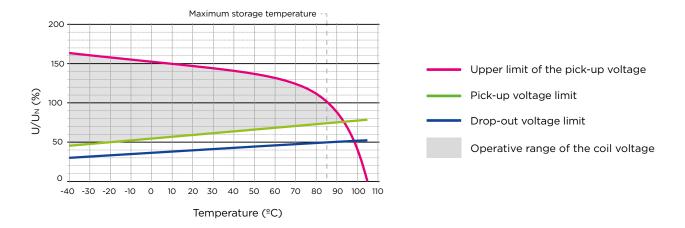




Variability of operative voltage range against temperature for the time-lag relays.

### TIME-LAG RELAYS

#### Operative range against ambient temperature.





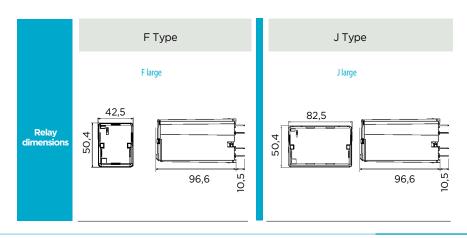


## **MODEL SELECTION**

Timers	Model	FF Range*	Aux. Supply			Ор	tions		
Model Selectión				ОР	0			c	,
General purpose range	1								
Relay with 2 timer contacts Relay with 4 timer contacts	TDF-2 TDF-4				0** 0**		0 0	O,	
Relay with 2 instantaneous contacts + 2 timer contacts	TDF-22				0**		0	0,	**
Relay with 8 timer contacts  Relay with 4 instantaneous contacts + 4 timer contacts	TDJ-8 TDJ-44				O**		0	O,	
Relay with 8 timer contacts  Relay with 4 instantaneous contacts + 4	TDJZ-8				0** 0**		0	0,	
timer contacts FF Range									L
Rolling stock applications or low duty loads***	No Yes	- FF							
Aux. Supply									
Indicate voltage level (ex.: 24Vdc/Vac)									
Options									
	Dependent Standard						0		
		24 Vdc					1		
		48 Vdc					2		
Command signal voltage	Independent	60 Vdd					3		
Command signal voltage	Different power supplier						4 5		
	for the comand signal ar the auxiliary supply	nd 96 vac 110 Vdc					6		
		125 Vd		-			7		
			Ic • Vac				8		

<sup>\*</sup> Indicate just if FF range is required.

# DIMENSIONS OF THE RELAYS



<sup>\*\*</sup> Mandatory option.

<sup>\*\*\*</sup> For more information refer to railway application brochure.







## **RETAINING CLIPS**

RETAINING CLIPS	OP SOCKET	RELATED PLUGGED RELA			
EO	Universal (D and F sized sockets require 2 units; J sized sockets	RD; RF; RJ; TDF; TDJ;	Universal (Bag of 20 units)		
	require 4 units)	VDF; VDJ	Universal (Bag of 100 units)		
E41	DN-DE IP, DN-DE 2C IP	R	D OP		
E50	DN-TR OP, DN-TR 2C OP	R	D OP		
E40	FN-DE IP, FN-DE 2C IP	R	FOP		
E43	FN-DE IP, FN-DE 2C IP	TDF OI	P; VDF OP		
E42	FN-TR OP, FN-TR 2C OP	RF OP			
E44	FN-TR OP, FN-TR 2C OP	TDF OP; VDF OP			
E31	FN-DE IP, FN-DE 2C IP	BF			
E21	FN-TR OP, FN-TR 2C OP	BF			
E45	JN-DE IP, JN-DE 2C IP	RJ OP			
E47	JN-DE IP, JN-DE 2C IP	TDJ OP; VDJ OP			
E46	JN-TR OP, JN-TR 2C OP	R	J OP		
E48	JN-TR OP, JN-TR 2C OP	TDJ OP; VDJ OP			
E29	JN-DE IP, JN-DE 2C IP	BJ; UJ			
E27	JN-TR OP, JN-TR 2C OP	BJ; UJ			
	OTHER ACCESSORIES				
Security pins	for RD; RF; RJ; TDF; TDJ; VDF; VDJ	relays (bag of	100 units)		



> E0 retaining clips



> E\*\* retaining clips

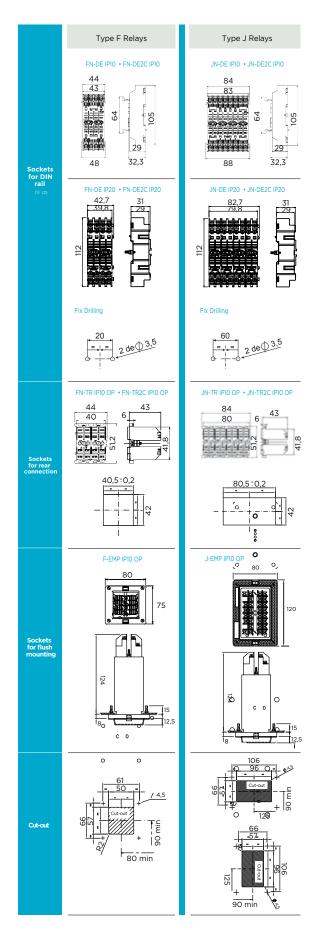
# SOCKETS, DIMENSIONS AND CUT-OUT

Sockets		Options		
Relay	Туре	Screw	Double faston	Weight (g)
	IP10 Front connection	FN-DE IP10	FN-DE2C IP10	110
F	IP20 Front connection	FN-DE IP20	FN-DE2C IP20	110
Г	IP10 Rear connection	FN-TR OP	FN-TR2C OP	90
	IP10 Flush mounting	F-EMP OP		300
	IP10 Front connection	JN-DE IP10	JN-DE2C IP10	225
	IP20 Front connection	JN-DE IP20	JN-DE2C IP20	225
J	IP10 Rear connection	JN-TR OP	JN-TR2C OP	180
	IP10 Flush mounting	J-EMP OP		400

Accessories
Retaining clips
Function signs on the extraction ring
Security pins







(1) DIN rail according to EN50022 DIN46277/3

(2) Minimum distance between sockets will depend on type of relay and sockets. Please request sockets user manual for more detailed information.





Updates: ARTECHE\_CT\_Time-lag-Auxiliary-Relay\_EN Versión: 1.4

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