

## Description

# Magnecraft General Purpose Relays

## 792 Control Series

DPDT 12 A; 4PDT 6 A and 3 A



UL listed when used with proper Magnecraft sockets



792 Clear Cover



792 Full-Feature Cover

## Description

The 792 Plug-in Control relays offer clear or full-feature covers with multiple mounting options and accessories; 4PDT models save valuable space while adding increased functionality.

| Feature                             | Benefit                                                                                                                          |
|-------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| 12 A / 6 A / 3 A switching current  | Ideal for various automation panels and controls                                                                                 |
| Clear or full-feature cover options | Full-feature covers include LED indicator and locking test button to facilitate maintenance and expedite commissioning           |
| DPDT and 4PDT contact options       | Simultaneously control 2 or 4 separate circuits                                                                                  |
| Socket mount option                 | Simplifies installation and maintenance while also allowing the use of protection modules, hold-down clips and other accessories |
| Gold-flashed contacts               | Reduces contact oxidation and increases shelf life                                                                               |
| Mechanical flag indicator           | Standard feature that displays relay status during testing or operation without having to power the relay                        |

| Contact Rating | Contact Configuration | Nominal Coil Voltage | Coil Resistance (Ω) | Contacts             | Part Number: Clear Cover | Part Number: Clear Cover with LED | Part Number: Full-Feature Cover |
|----------------|-----------------------|----------------------|---------------------|----------------------|--------------------------|-----------------------------------|---------------------------------|
| 3 A            | 4PDT                  | 12 Vac               | 44                  | Low Level Bifurcated | 792XDX3C-12A             | 792XDX3CL-12A                     | 792XDX3M4L-12A                  |
|                |                       | 24 Vac               | 177                 |                      | 792XDX3C-24A             | 792XDX3CL-24A                     | 792XDX3M4L-24A                  |
|                |                       | 48 Vac               | 708                 |                      | 792XDX3C-48A             | 792XDX3CL-48A                     | 792XDX3M4L-48A                  |
|                |                       | 120 Vac              | 3630                |                      | 792XDX3C-120A            | 792XDX3CL-120A                    | 792XDX3M4L-120A                 |
|                |                       | 240 Vac              | 17720               |                      | 792XDX3C-240A            | 792XDX3CL-240A                    | 792XDX3M4L-240A                 |
|                |                       | 12 Vdc               | 160                 |                      | 792XDX3C-12D             | 792XDX3CL-12D                     | 792XDX3M4L-12D                  |
|                |                       | 24 Vdc               | 640                 |                      | 792XDX3C-24D             | 792XDX3CL-24D                     | 792XDX3M4L-24D                  |
|                |                       | 48 Vdc               | 2560                |                      | 792XDX3C-48D             | 792XDX3CL-48D                     | 792XDX3M4L-48D                  |
|                |                       | 110 Vdc              | 13440               |                      | 792XDX3C-110D            | 792XDX3CL-110D                    | 792XDX3M4L-110D                 |
|                |                       |                      |                     |                      |                          |                                   |                                 |
| 12 A           | DPDT                  | 12 Vac               | 44                  | Standard             | 792XBXC-12A              | —                                 | 792XBXM4L-12A                   |
|                |                       | 24 Vac               | 177                 |                      | 792XBXC-24A              | —                                 | 792XBXM4L-24A                   |
|                |                       | 48 Vac               | 708                 |                      | 792XBXC-48A              | —                                 | 792XBXM4L-48A                   |
|                |                       | 120 Vac              | 3630                |                      | 792XBXC-120A             | —                                 | 792XBXM4L-120A                  |
|                |                       | 240 Vac              | 17720               |                      | 792XBXC-240A             | —                                 | 792XBXM4L-240A                  |
|                |                       | 12 Vdc               | 160                 |                      | 792XBXC-12D              | —                                 | 792XBXM4L-12D                   |
|                |                       | 24 Vdc               | 640                 |                      | 792XBXC-24D              | —                                 | 792XBXM4L-24D                   |
|                |                       | 48 Vdc               | 2560                |                      | 792XBXC-48D              | —                                 | 792XBXM4L-48D                   |
|                |                       | 110 Vdc              | 13440               |                      | 792XBXC-110D             | —                                 | 792XBXM4L-110D                  |
|                |                       |                      |                     |                      |                          |                                   |                                 |
| 6 A            | 4PDT                  | 12 Vac               | 44                  | Standard             | 792XDXC-12A              | 792XDXCL-12A                      | 792XDXM4L-12A                   |
|                |                       | 24 Vac               | 177                 |                      | 792XDXC-24A              | 792XDXCL-24A                      | 792XDXM4L-24A                   |
|                |                       | 48 Vac               | 708                 |                      | 792XDXC-48A              | 792XDXCL-48A                      | 792XDXM4L-48A                   |
|                |                       | 120 Vac              | 3630                |                      | 792XDXC-120A             | 792XDXCL-120A                     | 792XDXM4L-120A                  |
|                |                       | 240 Vac              | 17720               |                      | 792XDXC-240A             | 792XDXCL-240A                     | 792XDXM4L-240A                  |
|                |                       | 12 Vdc               | 160                 |                      | 792XDXC-12D              | 792XDXCL-12D                      | 792XDXM4L-12D                   |
|                |                       | 24 Vdc               | 640                 |                      | 792XDXC-24D              | 792XDXCL-24D                      | 792XDXM4L-24D                   |
|                |                       | 48 Vdc               | 2560                |                      | 792XDXC-48D              | 792XDXCL-48D                      | 792XDXM4L-48D                   |
|                |                       | 110 Vdc              | 13440               |                      | 792XDXC-110D             | 792XDXCL-110D                     | 792XDXM4L-110D                  |
|                |                       |                      |                     |                      |                          |                                   |                                 |

## Part Number Explanation

|                                                  |                                                           |                                                                                                     |                                                                                                           |                                                                       |
|--------------------------------------------------|-----------------------------------------------------------|-----------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|
| <b>Series:</b><br>792 = 792 Series Control Relay | <b>Contact Configuration:</b><br>XBX = DPDT<br>XDX = 4PDT | <b>Contact Code:</b><br>None = Standard 6–12 A Silver Alloy Contacts<br>3 = 3 A Bifurcated Contacts | <b>Cover Options:</b><br>C = Clear Cover<br>CL = Clear Cover and LED<br>M4L = Locking Push Button and LED | <b>Coil Voltages:</b><br>12–240A = 12–240 VAC<br>12–110D = 12–110 VDC |
|--------------------------------------------------|-----------------------------------------------------------|-----------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|

\*Please contact Customer Service for more information (847-441-2540).

## Specifications

| Part Number                                                    | 792XBX                                                                                                                                                                                                                                                                    |
|----------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Contact Characteristics</b>                                 |                                                                                                                                                                                                                                                                           |
| Terminal Style                                                 | Blade                                                                                                                                                                                                                                                                     |
| Contact Material                                               | Silver Alloy                                                                                                                                                                                                                                                              |
| Contact Configuration                                          | DPDT                                                                                                                                                                                                                                                                      |
| Maximum Switching Current                                      | 12 A                                                                                                                                                                                                                                                                      |
| Maximum Switching Voltage                                      | IEC: 250 Vac / 28 Vdc<br>UL/CSA: 300 Vac / 30 Vdc                                                                                                                                                                                                                         |
| Rated Operational Current<br>(Conforming to IEC AC-1 and DC-1) | NO: 12 A at 250 Vac, NC: 6 A at 250 Vac<br>NO: 12 A at 28 Vdc, NC: 6 A at 28 Vdc                                                                                                                                                                                          |
| Rated Operational Current<br>(Conforming to UL)                | <b>Resistive:</b> 12 A at 277 Vac, 100k cycles<br><b>Resistive:</b> 12 A at 120 Vac, 200k cycles<br><b>Resistive:</b> 12 A at 30 Vdc, 100k cycles<br><b>Motor:</b> 1/2 HP at 120 Vac, 6k cycles<br><b>Motor:</b> 1 HP at 277 Vac, 6k cycles<br>B300 PILOT DUTY, 6k cycles |
| Minimum Switching Requirement                                  | 10 mA at 17 Vdc                                                                                                                                                                                                                                                           |
| <b>Coil Characteristics</b>                                    |                                                                                                                                                                                                                                                                           |
| Maximum Operating Voltage                                      | 110% (AC / DC)                                                                                                                                                                                                                                                            |
| Maximum Pickup Voltage                                         | 80% (AC); 80% (DC)                                                                                                                                                                                                                                                        |
| Drop-out Voltage Threshold                                     | 15% (AC); 10% (DC)                                                                                                                                                                                                                                                        |
| Average Consumption                                            | 0.9–1.2 VA (AC); 0.8–1.1 W (DC)                                                                                                                                                                                                                                           |
| <b>General Characteristics</b>                                 |                                                                                                                                                                                                                                                                           |
| Electrical Life at Rated Load                                  | 200,000 operations (where stated)                                                                                                                                                                                                                                         |
| Mechanical Life (Unpowered)                                    | 10,000,000 operations                                                                                                                                                                                                                                                     |
| Operating Time                                                 | 25 ms max. at 80% rated coil voltage<br>20 ms max. at 100% rated coil voltage                                                                                                                                                                                             |
| Release time                                                   | 20 ms max. (DC)<br>35 ms max. (AC)                                                                                                                                                                                                                                        |
| Impulse Withstand Voltage                                      | 4 kV (1.2 / 50 $\mu$ s)                                                                                                                                                                                                                                                   |
| Dielectric Strength - Between Coil and Contact (AC)            | 2000 V(rms)                                                                                                                                                                                                                                                               |
| Dielectric Strength - Between Poles (AC)                       | 2000 V(rms)                                                                                                                                                                                                                                                               |
| Dielectric Strength - Between Contacts (AC)                    | 1300 V(rms)                                                                                                                                                                                                                                                               |
| Ambient Air Temperature around the Device<br>- Storage         | -40 to +85 °C (-40 to +185 °F)                                                                                                                                                                                                                                            |
| Ambient Air Temperature around the Device<br>- Operation       | -40 to +55 °C (-40 to +131 °F)                                                                                                                                                                                                                                            |
| Vibration Resistance - In Operation                            | 3 g-n at 35–150 Hz                                                                                                                                                                                                                                                        |
| Vibration Resistance - Not Operating                           | 5 g-n at 35–150 Hz                                                                                                                                                                                                                                                        |
| Shock Resistance - In Operation                                | 10 g-n                                                                                                                                                                                                                                                                    |
| Shock Resistance - Not Operating                               | 30 g-n                                                                                                                                                                                                                                                                    |
| Degree of Protection (Housing Only)                            | IP 40                                                                                                                                                                                                                                                                     |
| Weight                                                         | 37 g (1.31 oz)                                                                                                                                                                                                                                                            |
| Agency Approvals                                               | UL with socket, UR (E164862), CE, CSA (225619), RoHS                                                                                                                                                                                                                      |

Note: Actual product performance may vary depending on application and environmental conditions.

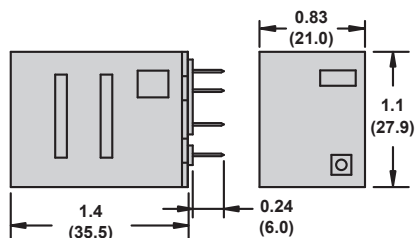
## Specifications (continued)

| Part Number                                                  | 792XDX                                                                                                                                                                                                                                 | 792XDX3                                                                                                                                                                                                        |
|--------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Contact Characteristics</b>                               |                                                                                                                                                                                                                                        |                                                                                                                                                                                                                |
| Terminal Style                                               | Blade                                                                                                                                                                                                                                  | Blade                                                                                                                                                                                                          |
| Contact Material                                             | Silver Alloy                                                                                                                                                                                                                           | Bifurcated                                                                                                                                                                                                     |
| Contact Configuration                                        | 4PDT                                                                                                                                                                                                                                   | 4PDT                                                                                                                                                                                                           |
| Maximum Switching Current                                    | 6 A                                                                                                                                                                                                                                    | 3 A                                                                                                                                                                                                            |
| Load Type                                                    | Standard                                                                                                                                                                                                                               | Low Level                                                                                                                                                                                                      |
| Maximum Switching Voltage                                    | 300 V                                                                                                                                                                                                                                  | 300 V                                                                                                                                                                                                          |
| Rated Operational Current<br>(Conforming to IEC AC1 and DC1) | NO: 6 A at 250 Vac, NC: 3 A at 250 Vac<br>NO: 6 A at 28 Vdc, NC: 3 A at 28 Vdc                                                                                                                                                         | NO: 2 A at 250 Vac, NC: 1 A at 250 Vac<br>NO: 2 A at 28 Vdc, NC: 1 A at 28 Vdc                                                                                                                                 |
| Operational Current<br>(Conforming to UL)                    | Resistive: 6 A at 277 Vac, 200k cycles<br>Resistive: 8 A at 120 Vac, 200k cycles<br>Resistive: 8 A at 30 Vdc, 200k cycles<br>Motor: 1/3 HP at 120 Vac, 6k cycles<br>Motor: 1/2 HP at 277 Vac, 6k cycles<br>Pilot Duty: B300, 6k cycles | General Purpose: 3 A at 240–277 Vac<br>General Purpose: 3 A at 120 Vac<br>Resistive: 3 A at 30 Vdc<br>Motor: 1/16 HP (2.8 A FLA) at 120 Vac<br>Pilot Duty: 5 A make, 0.5 A break,<br>3 A continuous at 120 Vac |
| Minimum Switching Requirement                                | 10 mA at 17 Vdc                                                                                                                                                                                                                        | 3 mA at 5 Vdc                                                                                                                                                                                                  |
| <b>Coil Characteristics</b>                                  |                                                                                                                                                                                                                                        |                                                                                                                                                                                                                |
| Maximum Operating Voltage                                    | 110% (AC / DC)                                                                                                                                                                                                                         | 110% (AC / DC)                                                                                                                                                                                                 |
| Maximum Pickup Voltage                                       | 80% (AC); 80% (DC)                                                                                                                                                                                                                     | 80% (AC); 80% (DC)                                                                                                                                                                                             |
| Drop-out Voltage Threshold                                   | 15% (AC); 10% (DC)                                                                                                                                                                                                                     | 15% (AC); 10% (DC)                                                                                                                                                                                             |
| Average Consumption                                          | 0.9–1.2 VA (AC); 0.8–1.1 W (DC)                                                                                                                                                                                                        | 0.9–1.2 VA (AC); 0.8–1.1 W (DC)                                                                                                                                                                                |
| <b>General Characteristics</b>                               |                                                                                                                                                                                                                                        |                                                                                                                                                                                                                |
| Electrical Life at Rated Load                                | 200,000 operations (where stated)                                                                                                                                                                                                      | 100,000 (gen. purpose load) operations                                                                                                                                                                         |
| Mechanical Life (Unpowered)                                  | 10,000,000 operations                                                                                                                                                                                                                  | 10,000,000 operations                                                                                                                                                                                          |
| Operating Time                                               | 25 ms max. at 80% rated coil voltage<br>20 ms max. at 100% rated coil voltage                                                                                                                                                          | 25 ms max. at 80% rated coil voltage<br>20 ms max. at 100% rated coil voltage                                                                                                                                  |
| Release time                                                 | 20 ms max. (DC)<br>35 ms max. (AC)                                                                                                                                                                                                     | 20 ms max. (DC)<br>35 ms max. (AC)                                                                                                                                                                             |
| Impulse Withstand Voltage                                    | 2.5 kV (1.2 / 50 $\mu$ s)                                                                                                                                                                                                              | 2.5 kV (1.2 / 50 $\mu$ s)                                                                                                                                                                                      |
| Dielectric Strength - Between Coil and Contact (AC)          | 2000 V(rms)                                                                                                                                                                                                                            | 2000 V(rms)                                                                                                                                                                                                    |
| Dielectric Strength - Between Poles (AC)                     | 1600 V(rms)                                                                                                                                                                                                                            | 1600 V(rms)                                                                                                                                                                                                    |
| Dielectric Strength - Between Contacts (AC)                  | 1300 V(rms)                                                                                                                                                                                                                            | 1300 V(rms)                                                                                                                                                                                                    |
| Ambient Air Temperature around the Device<br>- Storage       | -40 to +85 °C (-40 to +185 °F)                                                                                                                                                                                                         | -40 to +85 °C (-40 to +185 °F)                                                                                                                                                                                 |
| Ambient Air Temperature around the Device<br>- Operation     | -40 to +55 °C (-40 to +131 °F)                                                                                                                                                                                                         | -40 to +55 °C (-40 to +131 °F)                                                                                                                                                                                 |
| Vibration Resistance - In Operation                          | 3 g-n at 35–150 Hz                                                                                                                                                                                                                     | 3 g-n at 35–150 Hz                                                                                                                                                                                             |
| Vibration Resistance - Not Operating                         | 5 g-n at 35–150 Hz                                                                                                                                                                                                                     | 5 g-n at 35–150 Hz                                                                                                                                                                                             |
| Shock Resistance - In Operation                              | 10 g-n                                                                                                                                                                                                                                 | 10 g-n                                                                                                                                                                                                         |
| Shock Resistance - Not Operating                             | 30 g-n                                                                                                                                                                                                                                 | 30 g-n                                                                                                                                                                                                         |
| Degree of Protection (Housing Only)                          | IP 40                                                                                                                                                                                                                                  | IP 40                                                                                                                                                                                                          |
| Weight                                                       | 37 g (1.31 oz)                                                                                                                                                                                                                         | 37 g (1.31 oz)                                                                                                                                                                                                 |
| Agency Approvals                                             | UL with socket, UR (E164862), CE, CSA (225619), RoHS                                                                                                                                                                                   |                                                                                                                                                                                                                |

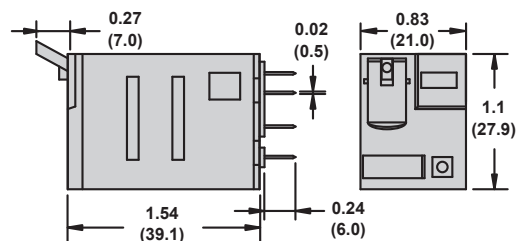
Note: Actual product performance may vary depending on application and environmental conditions.

## Dimensions — inches (millimeters)

### Clear Cover Dimension

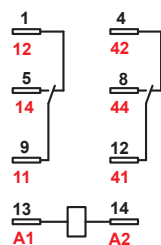


### Full-Feature Cover Dimension



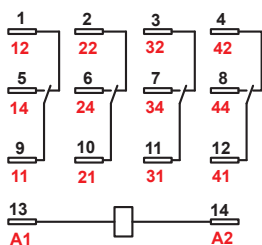
## Wiring Diagrams

### DPDT

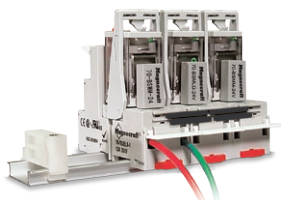


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### 4PDT



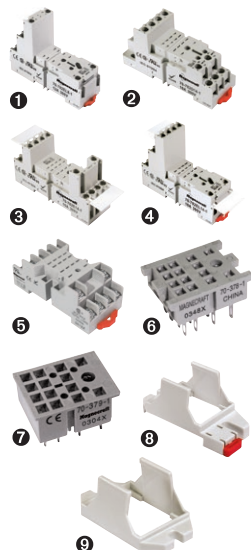
NEMA  
IEC



### Description

Optional sockets offer customizable, Fingersafe™ solutions including protection modules, hold-down clips, and ID tags. Sockets are DIN rail and panel mount compatible.

### Relay Accessories



| Description | Function                                                 | For Use With Relays | Pkg. Min. | Standard Part Number |
|-------------|----------------------------------------------------------|---------------------|-----------|----------------------|
| Socket 1    | DIN/Panel mount with elevator terminals                  | 792XBX              | 10        | 70-782EL8-1          |
| Socket 2    | DIN/Panel mount with screw terminals and clamping plates | 792XBX / 792XDX     | 10        | 70-782D14-1          |
| Socket 3    | DIN/Panel mount with rising elevator box terminals       | 792XBX / 792XDX     | 10        | 70-782E14-1          |
| Socket 4    | DIN/Panel mount with elevator terminals                  | 792XBX / 792XDX     | 10        | 70-782EL14-1         |
| Socket 5    | DIN/Panel mount with screw terminals and clamping plates | 792XDX              | 10        | 70-461-1             |
| Socket 6    | Solder terminals for chassis mount                       | 792XDX              | 10        | 70-378-1             |
| Socket 7    | Printed circuit terminals for PCB mount                  | 792XDX              | 10        | 70-379-1             |
| Adapter 8   | Mount directly to DIN rail                               | 792XBX / 792XDX     | 10        | 16-782C              |
| Adapter 9   | Mount directly to panel                                  | 792XBX / 792XDX     | 10        | 16-782C1             |

### Socket Accessories



| Description                                    | Function                                                                     | For Use With Sockets                                | Coil Voltage | Pkg. Min.   | Standard Part Number |
|------------------------------------------------|------------------------------------------------------------------------------|-----------------------------------------------------|--------------|-------------|----------------------|
| Metal Spring Clip ❶                            | Secures relay in socket                                                      | 70-782D14-1, 70-782E14-1, 70-782EL14-1, 70-782EL8-1 | —            | 10          | 16-782SC             |
| Plastic Hold-Down Clip ❷                       | Secures relay in socket or ejects relay off socket                           |                                                     | —            | 10          | 16-782PC-1           |
| Write-on tag ❸                                 | Small Write-on tag                                                           |                                                     | —            | 10          | 16-782FT-1           |
| Write-on tag ❹                                 | Write-on tag for 16-782PC-1 Hold-down Clip                                   | —                                                   | —            | 10          | 16-700ST-1           |
| Extruded Aluminum DIN Rail, 39.37" (1000 mm) ❺ | Quick installation and removal of sockets                                    | 70-782D14-1, 70-782E14-1, 70-782EL8-1, 70-782EL14-1 | —            | 10          | 16-700DIN            |
| DIN Rail End Clip ❻                            | Holds sockets firmly in place on DIN rail                                    | —                                                   | —            | 10          | 16-DCLIP-1           |
| Insulated Coil Bus Jumper System ❼             | Wireless socket connection                                                   | 70-782EL8-1, 70-782EL14-1                           | —            | 10          | 16-782CBBJ-1         |
| Small Socket Module                            | Protection Diode (Protects external drive circuitry from inductive voltages) | 70-782D14-1, 70-782E14-1, 70-782EL14-1, 70-782EL8-1 | 6 to 250 Vdc | 10          | 70-BSMD-250          |
| Small Socket Module ❼                          | LED Indicator (Provides coil status at a glance)                             |                                                     | 24 Vac/Vdc   | 10          | 70-BSMLG-24          |
| Small Socket Module                            | MOV Suppressor (Protects from damaging electrical spikes)                    |                                                     | 120 Vac/Vdc  | 10          | 70-BSMM-120          |
|                                                |                                                                              |                                                     | 24 Vac/Vdc   | 10          | 70-BSMM-24           |
|                                                |                                                                              | 240 Vac/Vdc                                         | 10           | 70-BSMM-240 |                      |

Note: Use of LED socket module may increase coil power draw by up to 10%.

## Данный компонент на территории Российской Федерации

**Вы можете приобрести в компании MosChip.**

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

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