

TRIMBOX

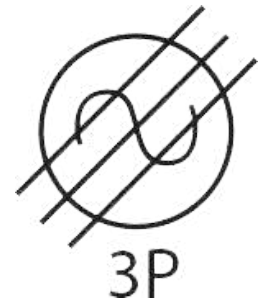
"PROTECTS YOUR LOVED ONES"

High Protection
Against High Voltage

www.trimbox.com.tr



YURTTAS
HOLDING A SUBSIDIARY OF



**First product with its own symbol
on a single line diagram
TRIMBOX**

Protection capability without grounding.

**B, C, D Class new generation surge
arresters with 87.87% indigenous rate...**

Neutral-Ground Regulator

Marine Series

GNDMOB3

Product List.

Datasheet

Compensation for User
Damage

WHY SHOULD I BUY TRIMBOX?

DISCOVER THE DIFFERENCE WITH TRIMBOX SURGE ARRESTERS!

- The Only Surge Arrester Manufacturer Selling with ₺ Due to Being Produced in Turkey with 87.87% Indigenous Rate
- Since It is Produced with a High Indigenous Production Rate, It is Minimally Affected by € and \$ Fluctuations and Does Not Pose the Risk of Continuous Increases to Its Users
- No Need for Intermediate Fuses and 16 Cables with Interphase and Phase-Neutral Overvoltage Damping Capability with Patented TRVaristor Technology
- An Average of 200₺ Less Installation Cost Due to No Need for 16 Cables and Intermediate Fuses Even in Only One Product
- Strong Production Infrastructure and 5 Business Day Delivery Guarantee
- B, B+C, C, C+D, C+D, D, B+C+D classes 110V/1000VAC, 12V/1500VDC Production Capability at the Voltage of Your Choice
- Protection Capability in Situations where Grounding is Weak or Completely Disconnected
- Ability to Regulate Neutral-Ground Voltage with GND Series
- Unlimited Protection Capability in Gold Products with Residual Current Relay Against Neutral Breakage



We Know the Problems.



We Offer Customized Solutions.



We Care About You.

Provides Full Protection with 2.5mm Cable Cross Section

No Need for Intermediate Fuses

Ability to Protect Against Neutral Breakage

No Cartridge Cost with Monoblock Structure

Does Not Need Good Grounding

TRIMBOX RACK CABINET NEUTRAL-GROUND REGULATED PROTECTION SOCKET

GNDRK4

Trimbox Rack Cabinet Neutral-Ground Regulated 4-Piece Protection Socket



**4 and 6 rack cabinet sockets
are now available in TRIMBOX
with neutral-ground regulation
and overvoltage protection**

GNDRK6

Trimbox Rack Cabinet Neutral-Ground Regulated 6-Piece Protection Socket



TRIMBOX

NEUTRAL-GROUND REGULATOR

GND Series;

GND Series is a model of Trimbox brand and its feature is to prevent damage to sensitive electronic devices and electronic cards by regulating the potential difference between neutral and ground. In doing so, it also prevents image disturbances on the screens of monitors (including projections), which are generally considered to be ground line interference.



In automation systems, it prevents the rise of neutral-ground voltage and the damages of mA level current leakages flowing from neutral to ground.

Technical Specifications

- With GND5, GND10, GND20, GND25 models, it reduces the voltage between neutral-ground at 1/5, 1/10, 1/20, 1/25 and at any desired ratio.
- System Single Phase 220V Neutral-Ground Voltage Regulation Capability.
- Protection Against Sound Interference (Ground Source)
- Protection Against Image Interference (Ground Source)
- Preventing High Voltage Generation in the Metal Body When Grounding is Weak or Disconnected
- Protection Against High Voltage
- Protection Against Peaks
- Protection Against Impacts from Ground Line
- Over Voltage Damping Capability
- Protection Against Lightning
- Mounting to Fuse Outlet (up to a maximum of 4 mm ground wire)



Reduces the neutral-ground voltage to 1V level in devices such as cash registers and ATMs.



Reduces the neutral-ground voltage in laboratory devices to 1V levels.



Reduces neutral-ground voltage to 0.4V in boilers.

MARINE

Series



We Care About
Your Smooth
Journey.



We Know the
Dangers in the
Harbor.



We Care About
You.



FEATURES

INCORPORATING ALL THE FEATURES OF NEW GENERATION SURGE ARRESTERS, THE "MARINE SERIES" ALSO AIMS TO PREVENT THE DAMAGE TO DEVICES AND SYSTEMS CAUSED BY INTENSE STATIC ELECTRICITY THAT OCCURS IN BOATS, ESPECIALLY DURING THE JOURNEY.



- B, C and D class surge arrester capability
- System three-phase 380V
- Protection against high voltage
- Protection against peaks
- Led indicator
- Protection in case of neutral-phase interference
- Protection capability in case of weak or no grounding
- Overvoltage damping capability
- Protection against lightning
- Embossed TRIMBOX and CE logos
- Marine logo
- Minimizing the generation of static electricity
- Preventing potential difference / voltage generation in metal parts by creating a virtual grounding
- Mounting on fuse output (up to 1000A)
- Product dimensions: 50x75x60 mm
- V0 non-flammability



"Ability to prevent the formation of static electricity in devices by minimizing the formation of voltage in metal parts."

TRIMBOX MOBILE SURGE ARRESTER

The protection that electricity users need to protect their devices and systems, which eliminates the problems related to installation problems, the need for a good grounding, where and which class surge arrester should be applied, starts with the mobile surge arrester by plugging the plug into any socket.

Mobile surge arresters also offer the ability to protect connected devices by taking energy from their own socket in places where they have to carry their systems and equipment to do their work and where they have to be powered by a generator because there is no electricity.

COMPARISON WITH CURRENT PROTECTION SOCKETS

The presence of sockets on mobile surge arresters immediately brings current protection sockets to mind.

Mobile surge arresters do not need to be used more than once for a home or office. Plugging into any socket protects all devices and the system supplied from the same phase.

- No current limit (except for loads fed from their own socket).
- Gold products against neutral breakage have unlimited protection capability together with residual current relay.
- It offers the ability to protect not only against phase-to-neutral surges, but also against pulses from the ground line.
- It has its own panel and is extra safe against the risk of fire as it does not touch places such as carpets in threats such as lightning and transformer explosion in terms of security level.



Imagine a MOBILE SURGE ARRESTER that you can carry wherever you need it.



**Whether you need for
your office**



**Whether to a movie
set**



**Whether for your
caravan**

**With Mutlusan-Trimbox
cooperation, combination
panels turn into protection
panels.**

**Protection Panels Protect
Electronic Boards Against
Overvoltages Including
Lightning.**



TRIMBOX

P&D

PROTECTION PANEL OF MACHINES



VOLTAGE PULSES, THE HIDDEN SOURCE OF PROBLEMS

Electricity is not only the food of appliances and sound systems, it is also their worst enemy. Voltage pulse threatens our lives in many areas from the devices and machines we use to the safety of property and life.



Loss of Life and Property

Production Loss Fuse Panels do not protect against high voltages. In our country, a large proportion of electrical device and machine failures, even electrical accidents that cause fire, from industrial facilities to domestic use, are caused by excessively high voltages caused by network, installation and natural factors.



Loss of Production

Voltage peaks and fluctuations are the main responsible for routine expense items up to millions of dollars annually in industrial organizations. Many device malfunctions, main card burns, fires and damages due to the stoppage of the production line are frequently experienced in voltages exceeding the upper limits. In domestic use, it is the same hidden enemy that shortens the life of our devices that we think break down for no reason.



Fuse Panels do not protect against high voltage

Fuse protection, which is our most important assurance in problems related to electric current (amperes), is ineffective at extremely high voltages. To date, no effective protection has been provided against many factors that threaten our safety of life and property, from natural causes such as lightning strikes to grid-induced voltage spikes.

A New Area in the Security Sector Secure Electricity

+1 YEAR
WARRANTY

Trimbox Used in
Tiandy Security Solutions
Customized for Projects

 **OKiSAN & TRIMBOX**

is a business development project



- Three-Phased System
- Operating Voltage V_{in} 230V
- Operating Frequency 50/60Hz
- Max. Continuous Operating Voltage U_c 230VAC-275VAC
- Arrestor Nominal Voltage U_n (L-N) 275VAC
- Protection Level $U_p < 1kV$
- Nominal Frequency F_n 50/60Hz
- Nominal Load Current I_L 32A
- Maximum Discharge Current $(8/20\mu s) I_{max}$ 20kA
- Response Time 10ns
- 4 Poles
- Earth Connection
- IEC 61643-11 2011, EN 61643-11 2012
- IP20
- Housing Material Thermoplastic, UL 94 V-0
- Protection Modes L-L, L-N, L-PE
- Temperature Range °C-40...80
- Dimensions 225*311*155mm
- Weight 2785g
- Neutral-Earth Regulation
- Blocking Sound Interference
- Blocking Video Interference
- Overvoltage Protection

Для электромобилей
Напряжение
нейтрали земля на
домашних зарядных
станциях с GNDMOB3
Без проблем



Ваши автомобили с
GNDMOB3
Во время зарядки
Отсутствие риска
перенапряжения



- Mono-Phased System
- Operating Voltage V_{in} 230V
- Operating Frequency 50/60Hz
- Max. Continuous Operating Voltage U_c 230VAC-275VAC
- Arrestor Nominal Voltage U_n (L-N) 275VAC
- Protection Level $U_p < 1kV$
- Nominal Frequency F_n 50/60Hz
- Nominal Load Current I_L 16A
- Maximum Discharge Current (8/20 μs) I_{max} 20kA
- Response Time 10ns
- 2 Poles
- Earth Connection
- IEC 61643-11 2011, EN 61643-11 2012
- IP20
- Housing Material Thermoplastic, UL 94 V-0
- Protection Modes L-N, L-PE
- Temperature Range °C-40...80
- Dimensions 185*165*134mm
- Weight 645g
- Neutral-Earth Regulation
- Overvoltage Protection



PRODUCT LIST

TRIMBOX

"Sevdiklerinizi Korur"



New Generation Surge Arrester (Single Phase)

YM1EXP

Parallel to single-phase fuse output

Protection against lightning, protection against transformer faults, protection against electrical surges, protection against inverter and electronic card burns, 2-pole B, C, D class surge arrester capability



New Generation Surge Arrester (Three-Phase)

YM3EXP

Parallel to the three-phase fuse output

Protection against lightning, protection against transformer faults, protection against electrical surges, protection against inverter and electronic card burns, 4-pole B, C, D class surge arrester capability



New Generation Surge Arrester Single Phase - Gold

YM1EXPR

Parallel to single-phase residual current relay output

Protection against lightning, protection against transformer faults, protection against electrical surges, protection against inverter and electronic card burns, 2-pole B, C, D class surge arrester capability, unlimited protection capability with leakage current role against neutral breakage



New Generation Surge Arrester (Three-Phase - Gold)

YM3EXPR

Parallel to three-phase residual current relay output

Protection against lightning, protection against transformer faults, protection against electrical surges, protection against inverter and electronic card burns, 4-pole B, C, D class surge arrester capability, unlimited protection capability with leakage current role against neutral breakage.



New Generation Surge Arrester (Single Phase 110V)

YM11P

Parallel to single-phase fuse output

Protection against lightning, protection against transformer faults, protection against electrical surges, 2-pole B, C, D class surge arrester capability



New Generation Surge Arrester (Three-Phase 200V)

YM22P

Parallel to the three-phase fuse output

Protection against lightning, protection against transformer faults, protection against electrical surges, 4-pole B, C, D class surge arrester capability



New Generation Surge Arrester (Single Phase - Gold 110V)

YM11PR

Parallel to single-phase residual current relay output

Protection against lightning, protection against transformer faults, protection against electrical surges, 2-pole B, C, D class surge arrester capability, unlimited protection capability with leakage current role against neutral breakage



New Generation Surge Arrester (Three-Phase - Gold 200V)

YM22PR

Parallel to three-phase residual current relay output

Protection against lightning, protection against transformer faults, protection against electrical surges, 4-pole B, C, D class surge arrester capability, unlimited protection capability with leakage current role against neutral breakage



Marine Series (Single Phase)

YMRN1

Parallel to single-phase fuse output

Prevents the formation of voltage in metal parts, minimizes the formation of static electricity in devices, Single-phase YNP capability



Marine Series (Three-Phase)

YMRN3

Parallel to the three-phase fuse output

Prevents the formation of voltage in metal parts, minimizes the formation of static electricity in devices, Three-phase YNP capability



New Generation AC-DC Surge Arrester

YM1PDC

Parallel to DC and AC fuse output

Protection against DC voltage surges up to 12V/1500, lightning protection, single-phase YNP capability



New Generation DC Surge Arrester

YMDC

Parallel to DC fuse output

Protection against DC voltage surges up to 12V/1500, lightning protection

PRODUCT LIST

TRIMBOX
"Sevdiğinizinizi Korum" (Protect what you love)



Class B 2 Pole Surge Arrester (100kA)

YM1T1

Parallel to single-phase fuse output

Class B 2-Pole Surge Arrester



Class C 2-Pole Surge Arrester (20/40kA)

YM1T2

Parallel to single-phase fuse output

Class C 2-Pole Surge Arrester



Class D 2 Pole Surge Arrester (3/5kA)

YM1T3

Parallel to single-phase fuse output

Class D 2-Pole Surge Arrester



Class B+C 2 Pole Surge Arrester (50kA)

YM1T1T2

Parallel to single-phase fuse output

Class B+C 2-Pole Surge Arrester



Class B 4-Pole Surge Arrester (100kA)

YM3T1

Parallel to the three-phase fuse output

Class B 4-Pole Surge Arrester



Class C 4-Pole Surge Arrester (20/40kA)

YM3T2

Parallel to the three-phase fuse output

Class C 4-Pole Surge Arrester



Class B+C 4-Pole Surge Arrester (50kA)

YM3T1T2

Parallel to the three-phase fuse output

Class B+C 4-Pole Surge Arrester



Class B+C 2 Pole 100 kA Surge Arrester

YM2T1T2

Parallel to single-phase fuse output

Class B+C 2 Pole 100 kA Surge Arrester



Class B+C 4-Pole 100 kA Surge Arrester

YM4T1T2

Parallel to the three-phase fuse output

Class B+C 4-Pole 100 kA Surge Arrester



Class B+C+D 4-Pole 100 kA Surge Arrester

YM4T1T2T3

Parallel to the three-phase fuse output

Class B+C+D 4-Pole 100 kA Surge Arrester



Class C+D 2-Pole Surge Arrester (20/40kA)

YM1T2T3

Parallel to single-phase fuse output

Class C+D 2-Pole Surge Arrester



Class C+D 4-Pole Surge Arrester (20/40kA)

YM3T2T3

Parallel to the three-phase fuse output

Class C+D 4-Pole Surge Arrester

PRODUCT LIST

TRIMBOX
"Sevdiğinizizi Korur"



Mobil GND Series (Gold Leakage Current)

GNDMOB

Connects to the outlet.

Neutral-to-ground voltage reduction, prevention of ground-induced audio and video interference, single-phase YNP (Gold) capability, phase-neutral reverse bonding protection



Mobile Surge Arrester (Single Phase)

YMOP1

Connects to the outlet.

Single-phase YNP capability for all systems parallel to that socket when connected to an empty socket (can also be output from the socket on it), portability



Mobile Surge Arrester (Single Phase)

YMOPR1

Connects to the outlet.

Single-phase Gold YNP capability for all systems parallel to that socket when connected to an empty socket (can also be output from the socket on it), portability



Mobile Surge Arrester (Single Phase-Gold Leakage Current)

YMOPRK1

Connects to the outlet.

Single-phase YNP capability for all systems parallel to that socket when connected to an empty socket (output can also be taken from the socket on it), portability, life protection capability with the residual current protection relay on the panel



New Generation DC/AC Surge Arrester

YMDC/AC

Parallel to DC or AC fuse output

DC up to 12V/1500, AC up to 1000V, protection against voltage surges, lightning protection, single-phase YNP capability



Neutral-Ground Regulator

GNDEXP

Phase-neutral connection parallel to single-phase fuse output, ground connection in series

Neutral-to-ground voltage reduction, prevention of ground-induced audio and video interference, single-phase YNP capability

NEW



Mobile Three Phase GND Series Neutral-Ground Regulator

GNDMOB3

Connects to a 5x32A 3-phase socket.

Reducing the voltage between neutral and ground, preventing audio and video interference caused by grounding, 3-phase YNP Capability



Combi Boiler Regulator

GNDKOM

Phase-neutral connection parallel to single-phase fuse output, ground connection in series

Reducing the voltage between neutral and ground, single phase YNP capability

NEW

NEW



New Generation Surge Arrester Combination Panel

YMMUT3

Protection against lightning, protection against transformer faults, protection against electrical surges, protection against inverter and electronic card burns, 4-pole B, C, D class surge arrester capability

Mutluhan Trimbox Product Development



Rack Cabinet Neutral-Ground Regulated 4-Piece Protection Socket

GNDRK4

Connects to 1*16A Single Phase Socket, 4 Plugs Can Be Connected Ground Connection Series, Reducing the Voltage Between Neutral and Ground, Preventing Audio and Video Interference from Grounding, Camera and DVR Recorder Protection, Single Phase YNP Capability, Protection Capability Against Displacement of Neutral and Phase Conductors

NEW

NEW



Rack Cabinet Neutral-Ground Regulated 6-Piece Protection Socket

GNDRK6

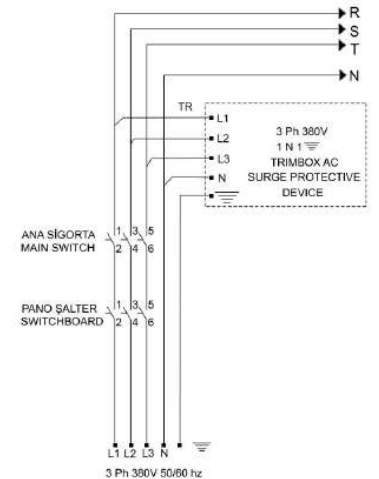
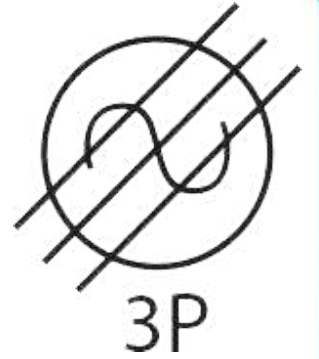
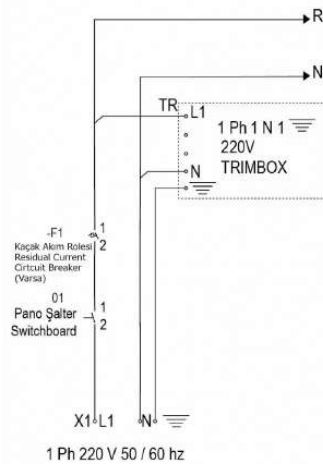
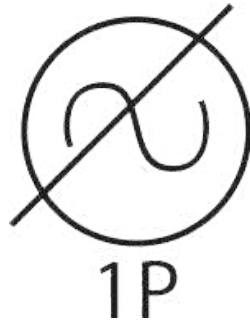
Connects to 1*16A Single Phase Socket, 6 Plugs Can Be Connected Reducing the Voltage Between Neutral and Ground, Preventing Audio and Video Interference from Grounding, Camera and DVR Recorder Protection, Single Phase YNP Capability, Protection Capability Against Displacement of Neutral and Phase Conductors

YM1EXPR 2 POLES OVERVOLTAGE PROTECTOR

- Mono-Phased System
- Operating Voltage V(in) 230V
- Operating Frequency 50/60Hz
- IEC Category Class I+II+III
- Max. Continuous Operating Voltage U_c 230VAC-275VAC
- Arrestor Nominal Voltage U_n (L-N) 275VAC
- UT (TOV-proof) 15kV, 20kA AC (8/20 μs) (L-N,L-PE) Protection Level Up<1kV * (No Good Grounding Required)
- Nominal Frequency F_n 50/60Hz
- Nominal Load Current I_L 1000A
- Maximum Decharge Current (8/20μs)I_{max} 20kA
- Response Time ≤ 10ns
- 2 Poles
- Earth Connection
- Multi-Core Conductor Cross Section 2,5mm²-4mm²
- Standarts IEC 61643-11 2011, EN 61643-11 2012
- IP20
- Housing Material Thermoplastic, UL 94 V-0
- Fault Message LED Off
- Protection Modes L-N,L-PE
- Mounting Type DIN Rail 35mm
- Temperature Range °C-40...80
- Dimensions 50*75*60mm
- Weights 160g
- Neutral Break Protection

YM3EXPR 4 POLES OVERVOLTAGE PROTECTOR

- Three-Phased System
- Operating Voltage V(in) 400V
- Operating Frequency 50/60Hz
- IEC Category Class I+II+III
- Max. Continuous Operating Voltage U_c 230 VAC (230/400VAC – 275/420 VAC) , 420 VAC (L-L)
- Arrestor Nominal Voltage U_n (L-N) 275VAC
- UT (TOV-proof) 15kV, 20kA AC (8/20 μs) (L-L,L-N,L-PE) Protection Level Up<1kV * (No Good Grounding Required)
- Nominal Frequency F_n 50/60Hz
- Nominal Load Current I_L 1000A
- Maximum Decharge Current (8/20μs)I_{max} 20kA
- Response Time ≤ 10ns
- 4 Poles
- Earth Connection
- Multi-Core Conductor Cross Section 2,5mm²-4mm²
- Standarts IEC 61643-11 2011, EN 61643-11 2012
- IP20
- Housing Material Thermoplastic, UL 94 V-0
- Fault Message LED Off
- Protection Modes L-L,L-N,L-PE
- Mounting Type DIN Rail 35mm
- Temperature Range °C-40...80
- Dimensions 70*75*60mm
- Weights 160g
- Neutral Break Protection

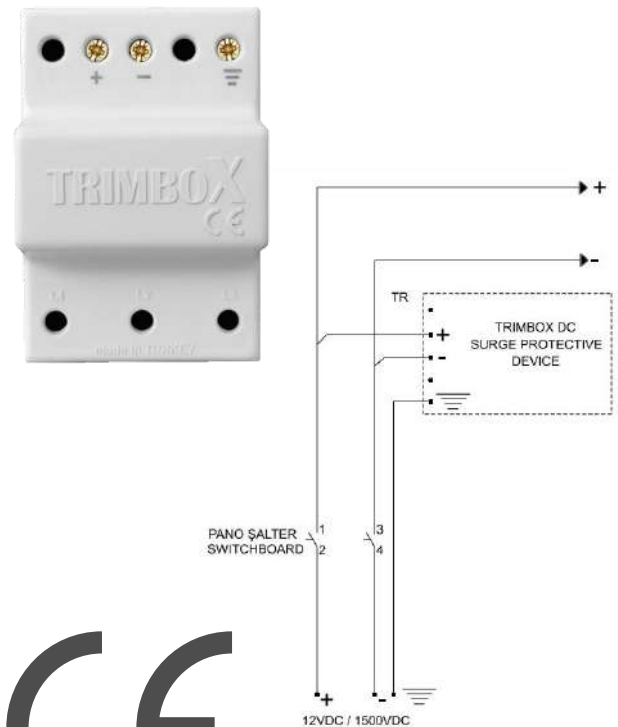
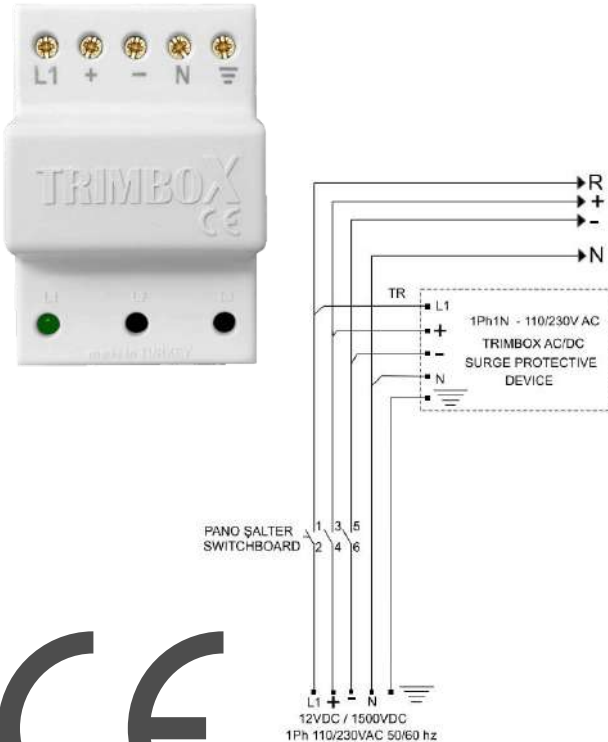


YM1PDC (AC-DC SPD)

- Mono-Phased System
- Operating Voltage V(in) 230V
- Operating Frequency 50/60Hz
- IEC Category Class I+II+III
- Max. Continuous Operating Voltage Uc 230VAC-275VAC
- Arrestor Nominal Voltage Un (L-N) 275VAC
- UT (TOV-proof) 15kV, 20kA AC (8/20 μ s) (L-N,L-PE)
- Protection Level Up<1kV * (No Good Grounding Required)
- Nominal Frequency Fn 50/60Hz
- Nominal Load Current IL 1000A
- Maximum Decharge Current (8/20 μ s)Imax 20kA
- Response Time \leq 10ns
- 2 Poles
- Earth Connection
- Imax 12,5kA (10/350 μ s)
- In 20kA (8/20 μ s)
- Itotal 50kA (8/20 μ s)
- Multi-Core Conductor Cross Section 2,5mm2-4mm2
- Standarts IEC 61643-11 2011, EN 61643-11 2012, IEC 61643-31:2018,EN 50539-11:2013
- IP20
- Housing Material Thermoplastic, UL 94 V-0
- Fault Message LED Off
- Protection Modes L-N,L-PE, (+)-PE, (-)-PE, (+)-(-)
- Mounting Type DIN Rail 35mm
- Temperature Range °C-40...80
- Dimensions 50*75*60mm
- Weights 160g

YMDC (DC SPD)

- DC System
- Earth Connection
- Protection Modes (+)-PE, (-)-PE, (+)-(-)
- Imax 12,5kA (10/350 μ s)
- In 20kA (8/20 μ s)
- Itotal 50kA (8/20 μ s)
- Response Time (+)-PE, (-)-PE, (+)-(-) \leq 10ns
- Multi-Core Conductor Cross Section 2,5mm2, 4mm2
- IP20
- Housing Material Thermoplastic UL94 V-0
- Standarts EN 50539-11:2013, IEC 61643-31:2018
- Mounting Type DIN Rail 35mm
- Temperature Range °C-40...80
- Dimensions 50*75*60mm
- Weights 160g

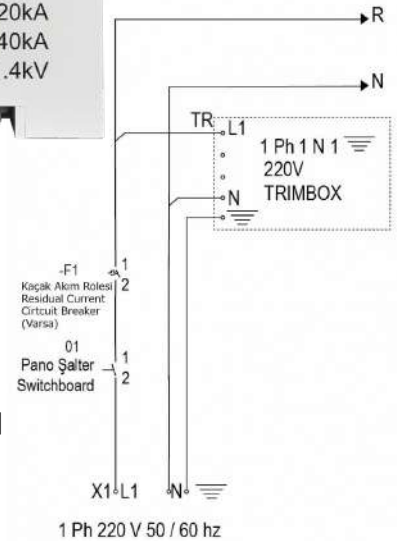
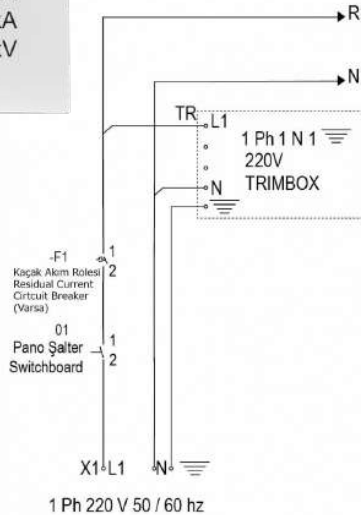


YMIT1 (Class B 2 Poles 100kA)

- 2 Poles
- Operating Voltage V(in) 230V
- Operating Frequency 50/60Hz
- Up <2,5kV
- IEC Category Class I
- Un 230 VAC (230VAC – 275VAC)
- Uc (L-N) 275VAC , Uc (L-PE)275VAC
- Fn 50/60 Hz
- In 100kA
- Iimp 50kA
- Response Time (L-N),(L-PE),(N-PE) ≤ 25ns
- Multi-Core Conductor Cross Section 2,5mm²-4mm²
- Standarts IEC 61643-11 2011, EN 61643-11 2012
- IP20
- Housing Material Thermoplastic, UL 94 V-0
- Fault Message LED Off
- Protection Modes L-N,L-PE,N-PE
- Mounting Type DIN Rail 35mm
- Temperature Range °C-40...80
- Dimensions 50*75*60mm
- Weights 160g
- Dry Contact (If Necessary)

YMIT2 (Class C 2 Poles 20/40kA)

- 2 Poles
- Operating Voltage V(in) 230V
- Operating Frequency 50/60Hz
- Up <1,4kV
- IEC Category Class II
- Un 230 VAC (230VAC – 275VAC)
- Uc (L-N) 275VAC , Uc (L-PE)275VAC
- Fn 50/60 Hz
- Imax 40kA
- In 20kA
- Response Time (L-N),(L-PE),(N-PE) ≤ 10 ns
- Multi-Core Conductor Cross Section 2,5mm²-4mm²
- Standarts IEC 61643-11 2011, EN 61643-11 2012
- IP20
- Housing Material Thermoplastic, UL 94 V-0
- Fault Message LED Off
- Protection Modes L-N,L-PE,N-PE
- Mounting Type DIN Rail 35mm
- Temperature Range °C-40...80
- Dimensions 50*75*60mm
- Weights 160g
- Dry Contact (If Necessary)

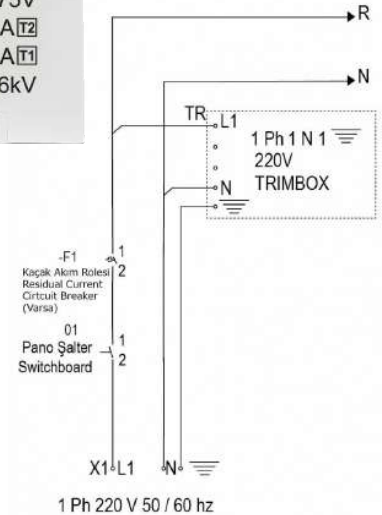
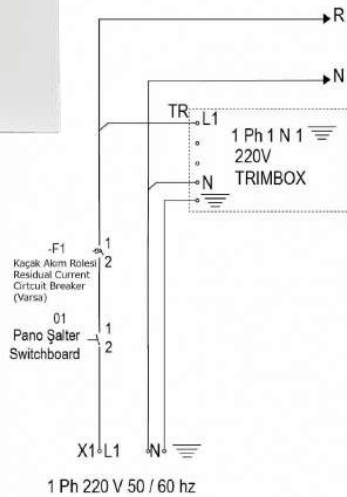


YMIT3 (Class D 2 Poles 3/5kA)

- Kutup Sayısı 2 (faz+nötr)
- İşle2 Poles
- Operating Voltage V(in) 230V
- Operating Frequency 50/60Hz
- Up <1kV
- IEC Category Class III
- Un 230 V AC (230VAC – 275VAC)
- Uc (L-N) 275VAC , Uc (L-PE)275VAC
- Fn 50/60 Hz
- Imax 5kA
- In 3kA
- Response Time (L-N),(L-PE),(N-PE) ≤ 10 ns
- Multi-Core Conductor Cross Section 2,5mm²-4mm²
- Standarts IEC 61643-11 2011, EN 61643-11 2012
- IP20
- Housing Material Thermoplastic, UL 94 V-0
- Fault Message LED Off
- Protection Modes L-N,L-PE,N-PE
- Mounting Type DIN Rail 35mm
- Temprature Range °C-40...80
- Dimensions 50*75*60mm
- Weights 160g
- Dry Contact (If Necessary)

YMIT1T2 (Class B+C 2 Poles 50kA)

- 2 Poles
- Operating Voltage V(in) 230V
- Operating Frequency 50/60Hz
- Up <1,6kV
- IEC Category Class I+II
- Un 230 VAC (230VAC – 275VAC)
- Uc (L-N) 275VAC , Uc (L-PE)275VAC
- Fn 50/60 Hz
- In 50kA
- Iimp 12,5kA
- Response Time (L-N),(L-PE),(N-PE) ≤ 10ns
- Multi-Core Conductor Cross Section 2,5mm²-4mm²
- Standarts IEC 61643-11 2011, EN 61643-11 2012
- IP20
- Housing Material Thermoplastic, UL 94 V-0
- Fault Message LED Off
- Protection Modes L-N,L-PE,N-PE
- Mounting Type DIN Rail 35mm
- Temprature Range °C-40...80
- Dimensions 50*75*60mm
- Weights 160g
- Dry Contact (If Necessary)

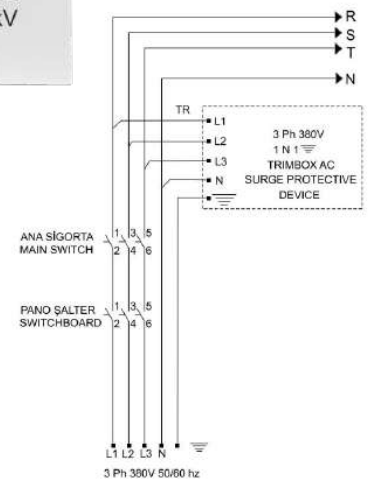
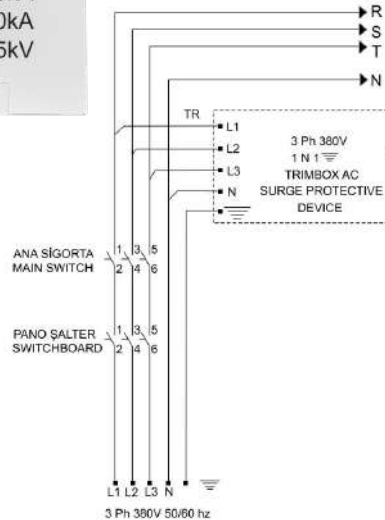


YM3T1 (Class B 4 Poles 100kA)

- 4 Poles
- Operating Voltage V(in) 230V
- Operating Frequency 50/60Hz
- Up <2,5kV
- IEC Category Class I
- Un 230 V AC (230VAC – 275VAC)
- Uc (L-N) 275VAC , Uc (L-PE)275VAC
- Fn 50/60 Hz
- In 100kA
- Iimp 50kA
- Response Time (L-N),(L-PE),(N-PE) ≤ 25ns
- Multi-Core Conductor Cross Section 2,5mm²-4mm²
- Standards IEC 61643-11 2011, EN 61643-11 2012
- IP20
- Housing Material Thermoplastic, UL 94 V-0
- Fault Message LED Off
- Protection Modes L-N,L-PE,N-PE
- Mounting Type DIN Rail 35mm
- Temperature Range °C-40...80
- Dimensions 50*75*60mm
- Weights 160g
- Dry Contact (If Necessary)

YM3T2 (Class C 4 Poles 20/40kA)

- 4 Poles
- Operating Voltage V(in) 230V
- Operating Frequency 50/60Hz
- Up <1,4kV
- IEC Category Class II
- Un 230 V AC (230VAC – 275VAC)
- Uc (L-N) 275VAC , Uc (L-PE)275VAC
- Fn 50/60 Hz
- Imax 40kA
- In 20kA
- Response Time (L-N),(L-PE),(N-PE) ≤ 10 ns
- Multi-Core Conductor Cross Section 2,5mm²-4mm²
- Standards IEC 61643-11 2011, EN 61643-11 2012
- IP20
- Housing Material Thermoplastic, UL 94 V-0
- Fault Message LED Off
- Protection Modes L-N,L-PE,N-PE
- Mounting Type DIN Rail 35mm
- Temperature Range °C-40...80
- Dimensions 50*75*60mm
- Weights 160g
- Dry Contact (If Necessary)

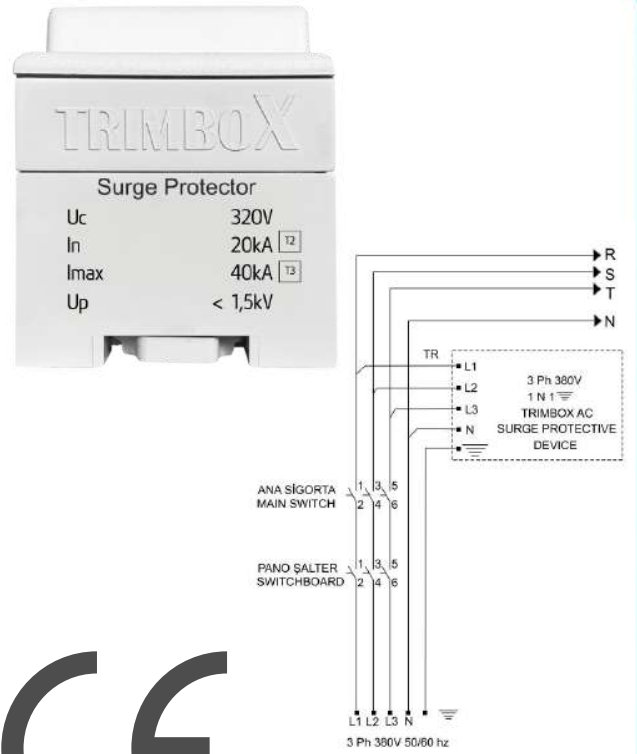
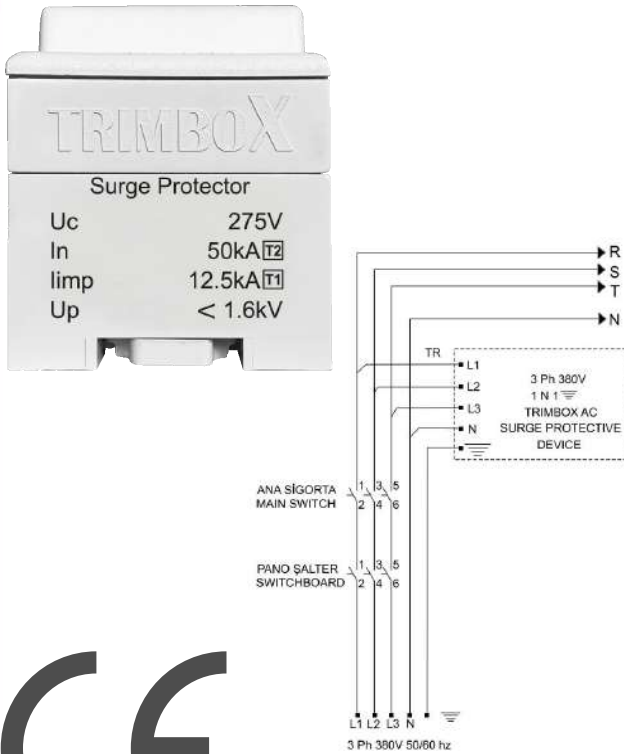


YM3T1T2 (Class B+C 4 Poles 50kA)

- 4 Poles
- Operating Voltage V(in) 230V
- Operating Frequency 50/60Hz
- Up <1,6kV
- IEC Category Class I+II
- Un 230 VAC (230VAC – 275VAC)
- Uc (L-N) 275VAC , Uc (L-PE)275VAC
- Fn 50/60 Hz
- In 50kA
- Iimp 12,5kA
- Response Time (L-N),(L-PE),(N-PE) ≤ 10ns
- Multi-Core Conductor Cross Section 2,5mm²-4mm²
- Standarts IEC 61643-11 2011, EN 61643-11 2012
- IP20
- Housing Material Thermoplastic, UL 94 V-0
- Fault Message LED Off
- Protection Modes L-N,L-PE,N-PE
- Mounting Type DIN Rail 35mm
- Temperature Range °C-40...80
- Dimensions 50*75*60mm
- Weights 160g
- Dry Contact (If Necessary)

YM3T2T3 (Class C+D 4 Poles 20/40kA)

- 4 Poles
- Operating Voltage V(in) 230V
- Operating Frequency 50/60Hz
- Up <1,5kV
- IEC Category Class II+III
- Un 230 VAC (230VAC – 320VAC)
- Uc (L-N) 320VAC , Uc (L-PE)320VAC
- Fn 50/60 Hz
- Imax 100kA
- In 20kA
- Response Time (L-N),(L-PE),(N-PE) ≤ 10ns
- Multi-Core Conductor Cross Section 2,5mm²-4mm²
- Standarts IEC 61643-11 2011, EN 61643-11 2012
- IP20
- Housing Material Thermoplastic, UL 94 V-0
- Fault Message LED Off
- Protection Modes L-N,L-PE,N-PE
- Mounting Type DIN Rail 35mm
- Temperature Range °C-40...80
- Dimensions 50*75*60mm
- Weights 160g
- Dry Contact (If Necessary)

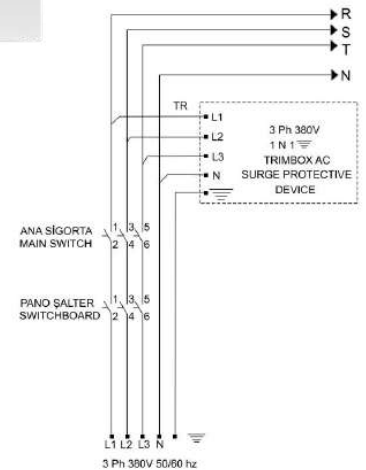
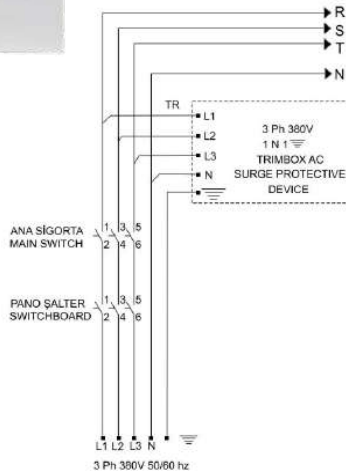


YM4T1T2 (Class B+C 4 Poles 100kA)

- 4 Poles
- Operating Voltage V(in) 230V
- Operating Frequency 50/60Hz
- Up <1,6kV
- IEC Category Class I+II
- Un 230 VAC (230VAC – 320VAC)
- Uc (L-N) 320VAC, Uc (L-PE)320VAC, Uc(N-PE) 255VAC
- Fn 50/60 Hz
- In 50kA
- In(N) 100kA
- Iimp 12,5kA
- Response Time (L-N),(L-PE),(N-PE) ≤ 10ns
- Multi-Core Conductor Cross Section 2,5mm²-4mm²
- Standarts IEC 61643-11 2011, EN 61643-11 2012
- IP20
- Housing Material Thermoplastic, UL 94 V-0
- Fault Message LED Off
- Protection Modes L-N,L-PE,N-PE
- Mounting Type DIN Rail 35mm
- Temperature Range °C-40...80
- Dimensions 50*75*60mm
- Weights 160g
- Dry Contact (If Necessary)

YM4T1T2T3 (Class B+C+D 4 Poles 100kA)

- 4 Poles
- Operating Voltage V(in) 230V
- Operating Frequency 50/60Hz
- Up <1,2kV
- IEC Category Class I+II+III
- Un 230 VAC (230VAC – 320VAC)
- Uc (L-N) 320VAC, Uc (L-PE)320VAC, Uc(N-PE) 255VAC
- Fn 50/60 Hz
- In 50kA
- In(N) 100kA
- Response Time (L-N),(L-PE),(N-PE) ≤ 10ns
- Multi-Core Conductor Cross Section 2,5mm²-4mm²
- Standarts IEC 61643-11 2011, EN 61643-11 2012
- IP20
- Housing Material Thermoplastic, UL 94 V-0
- Fault Message LED Off
- Protection Modes L-N,L-PE,N-PE
- Mounting Type DIN Rail 35mm
- Temperature Range °C-40...80
- Dimensions 50*75*60mm
- Weights 160g
- Dry Contact (If Necessary)

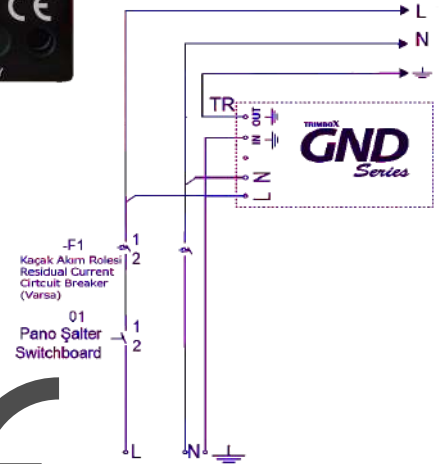
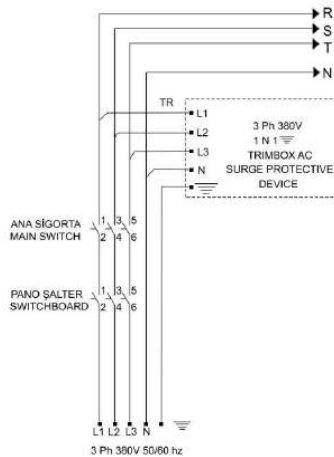


YMRN3 TRIMBOX MARINE SERİSİ

- Three-Phased System
- Operating Voltage V(in) 400V
- Operating Frequency 50/60Hz
- IEC Category Class I+II+III
- Max. Continuous Operating Voltage Uc 230 VAC (230/400VAC – 275/420 VAC) , 420 VAC (L-L)
- Arrestor Nominal Voltage Un (L-N) 275VAC
- UT (TOV-proof) 15kV, 20kA AC (8/20 μ s) (L-L,L-N,L-PE) Protection Level Up<1kV * (No Good Grounding Required)
- Nominal Frequency Fn 50/60Hz
- Nominal Load Current IL 1000A
- Maximum Discharge Current (8/20 μ s)Imax 20kA
- Response Time \leq 10ns
- 4 Poles
- Earth Connection
- Multi-Core Conductor Cross Section 2,5mm2-4mm2
- Standards IEC 61643-11 2011, EN 61643-11 2012
- IP20
- Housing Material Thermoplastic, UL 94 V-0
- Fault Message LED Off
- Protection Modes L-N,L-PE
- Mounting Type DIN Rail 35mm
- Temperature Range °C-40...80
- Dimensions 50*75*60mm
- Weights 160g
- Marine Logo
- Minimizing Static Electricity
- No Overvoltage in Metal Part

GNDSeries Nötr-Toprak Regülatörü

- Mono-Phased System
- Operating Voltage V(in) 230V
- Operating Frequency 50/60Hz
- IEC Category Class I+II+III
- Max. Continuous Operating Voltage Uc 230VAC-275VAC
- Arrestor Nominal Voltage Un (L-N) 275VAC
- UT (TOV-proof) 15kV, 20kA AC (8/20 μ s) (L-N,L-PE) Protection Level Up<1kV
- Nominal Frequency Fn 50/60Hz
- Nominal Load Current IL 1000A
- Maximum Discharge Current (8/20 μ s)Imax 20kA
- Response Time \leq 10ns
- 2 Poles
- Earth Connection
- Multi-Core Conductor Cross Section 2,5mm2-4mm2
- Standards IEC 61643-11 2011, EN 61643-11 2012
- IP20
- Housing Material Thermoplastic, UL 94 V-0
- Fault Message LED Off
- Protection Modes L-N,L-PE
- Mounting Type DIN Rail 35mm
- Temperature Range °C-40...80
- Dimensions 50*75*60mm
- Weights 160g
- Neutral-Earth Regulation
- Blocking Audio Noise from the Earth
- Blocking Video Noise from the Earth





T.C. CUMHURBAŞKANLIĞI
RESMÎ GAZETE



Kuruluş 7 Ekim 1920



Compensation for User Damage

ARTICLE 26 – (1) **The user** shall make **a claim to the distribution company** within 30 (thirty) days from the date of occurrence of the damage **for the compensation of the damage** caused to its equipment due to quality problems arising from the electricity distribution system.

(2) (2) In the applications for compensation of equipment damage made by the user, a technical report is prepared as a result of the examination and evaluation to be made by the distribution company on issues such as the nature of the damage, the status of the user facility, **interruption, fault, voltage fluctuation** occurring **in the distribution system**. In order for the user equipment damage to be compensated, it must be determined that the damage in question is caused by the distribution system as a result of the technical report prepared.

The use of surge suppressors as a requirement of the Internal Facilities Project Preparation Regulation is a highly effective method to prevent network-related problems. In this way, network-related problems are covered by a kind of state guarantee.



**To protect your inverters
against electrical faults
from solar panels;
PV-DC Surge Arresters
are available for you
in the desired class and voltage value...**



TRIMBOX ¹⁵
Siz uyurken elektrik uyumaz

CHOICE OF THE KNOW-IT-ALL

TRIMBOX



SUPERIOR PROTECTION

In case of poor grounding in surge arrester applications, it offers superior protection capability by providing extra protection between phases.



COMPETITIVE PRICE

With 87.87% indigenous production rate, it offers the most favorable price guarantee with the superiority of manufacturing in Turkey and the savings it provides in assembly.



FAST DELIVERY

As one of the world's most powerful surge arrester manufacturers, we offer the fastest delivery guarantee for each type of AC and DC LV surge arrester.

**"ELECTRICITY DOES NOT SLEEP
WHILE YOU ARE SLEEPING"**



trimbox/ 
trimboxtr/   

