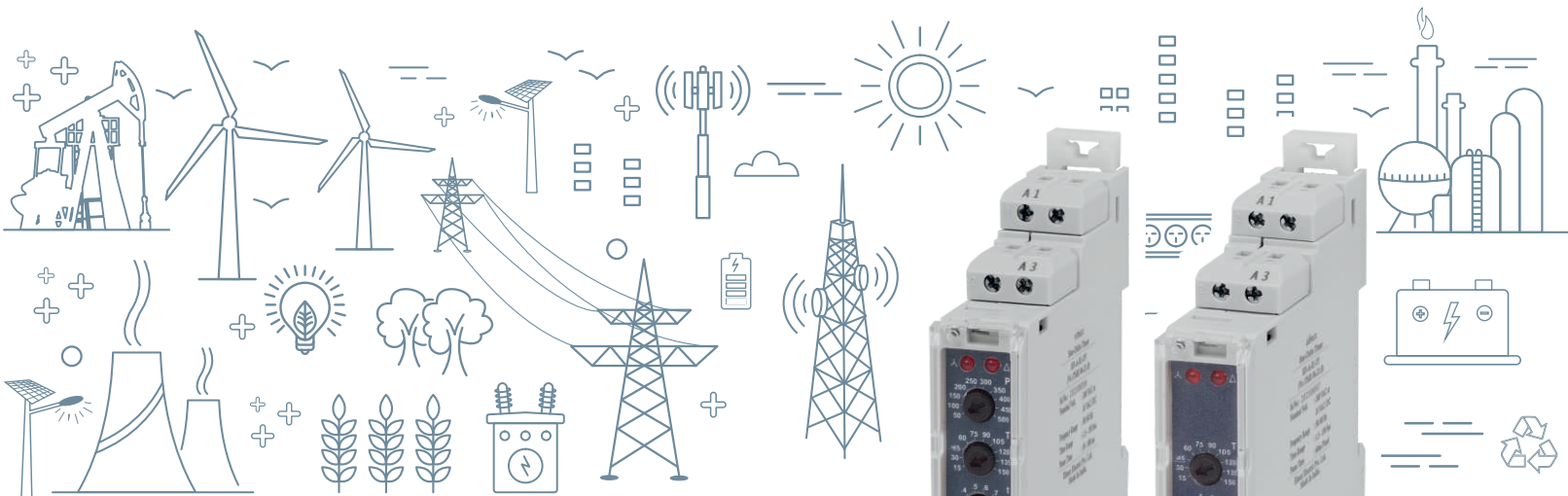




Converging
Innovations  Expanding
Solutions



Solutions For
Control & Instrumentation



Converging
Innovations



Expanding
Solutions



**Solutions For
Connectivity**



**Solutions For
Solar Photovoltaic**



**Solutions For
Metering & Protection**



**Solutions For
Control & Instrumentation**



**Solutions For
Railways**



**Solutions For
Oil & Gas Industry**

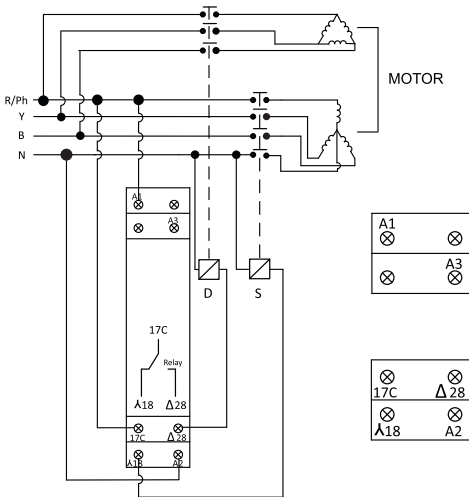
TIMERS

STAR DELTA TIMER

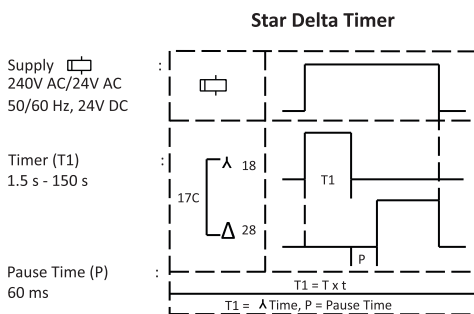
Type : SD-A-R1-P1



Connection Diagram



Functional Diagram



Application

'elmex' make SD-A-R1-P1 is used with Star Delta starters and provides desired monitoring and control in Motor operations.

Features

- 17.5 mm DIN Rail Housing.
- SPDT relay output.
- One Red LED for Star mode Indication.
- Second Red LED for Delta mode Indication.
- Sealable Front Cover for Temper Proofing.
- Provision of Multi-meter prob for parameters measurement.

Technical Specification

Supply Voltage

Supply voltage (A1-A2/A3-A2) 240V AC/ 24V AC-DC

Frequency 50 / 60 Hz

Power Consumption 8 VA

Delays

Delta mode on time delay (T1) 1.5 sec. to 150 sec.

Pause Timing (P) 60 msec. Fixed

Output Specifications

Output Contact Star-1 'NO'; Delta-1 'NO'

Contact Detail 5A @240V AC / 28V DC (Resistive)

LED Indications

Star mode indication 3 mm Red LED

Delta mode indication 3 mm Red LED

Environmental Specifications

Temperature Operating: 0 to 50 °C (32 to 122 °F)

Storage: -20 to 75 °C (-4 to 167 °F)

Humidity (non-condensing) 95% RH

Protection Level IP40 for Casing

IP20 for Terminals

Housing

Material Polycarbonate

Colour White

Dimension(H x D x W) 85 x 70.05 x 17.5 mm

Mounting TS 35 DIN Rail

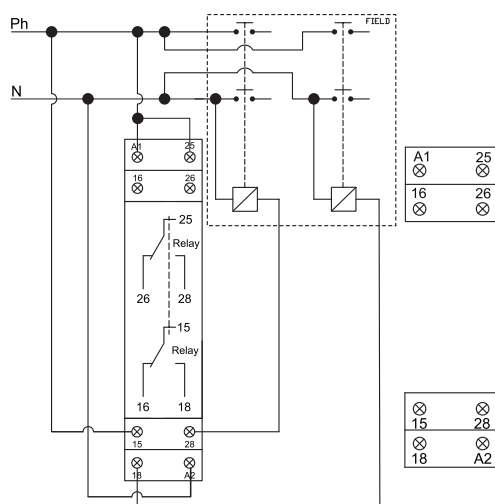
TIMERS

STAR DELTA TIMER

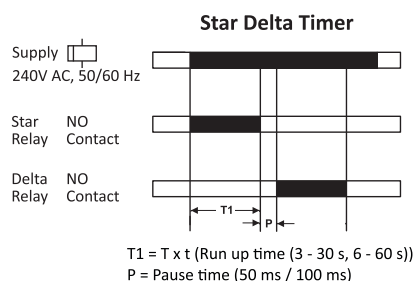
Type : SD-D-R2-P2



Connection Diagram



Functional Diagram



Application

'elmex' make SD-D-R2-P2 is used with Star Delta starters and provides desired monitoring and control in Motor operations.

Features

- 17.5 mm DIN Rail Housing.
- DPDT relay output.
- One Red LED for Star mode Indication.
- Second Red LED for Delta mode Indication.
- Sealable Front Cover for Temper Proofing.
- Provision of Multi-meter prob for parameters measurement.

Technical Specification

Supply Voltage

Supply voltage (A1-A2)	240V AC
Frequency	50 / 60 Hz
Power Consumption	8 VA

Delays

Delta mode on time delay (T1)	3-30sec. - 6-60 sec.
Pause Timing (P)	50 msec. / 100 msec.

Output Specifications

Output Contact	DPDT
Contact Detail	5A @240V AC / 28V DC (Resistive)

LED Indications

Star mode indication	3 mm Red LED
Delta mode indication	3 mm Red LED

Environmental Specifications

Temperature	Operating: 0 to 50 °C (32 to 122 °F) Storage: -20 to 75 °C (-4 to 167 °F)
Humidity (non-condensing)	95% RH
Protection Level	IP40 for Casing IP20 for Terminals

Housing

Material	Polycarbonate
Colour	White
Dimension(H x D x W)	85 x 70.05 x 17.5 mm
Mounting	TS 35 DIN Rail

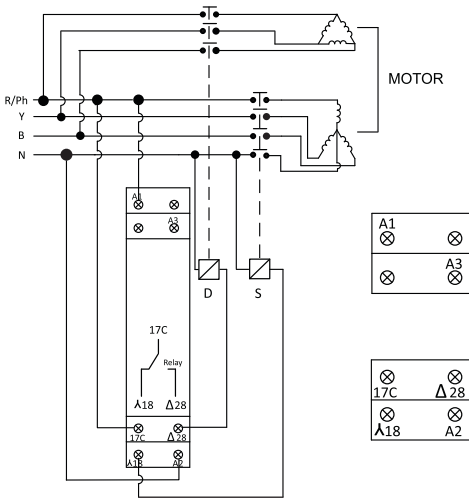
TIMERS

STAR DELTA TIMER

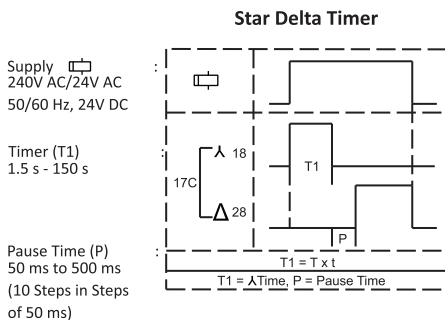
Type : SD-A-R1-P3



Connection Diagram



Functional Diagram



Application

'elmex' make SD-A-R1-P3 is used with Star Delta starters and provides desired monitoring and control in Motor operations.

Features

- 17.5 mm DIN Rail Housing.
- SPDT relay output.
- One Red LED for Star mode Indication.
- Second Red LED for Delta mode Indication.
- Sealable Front Cover for Temper Proofing.
- Provision of Multi-meter prob for parameters measurement.

Technical Specification

Supply Voltage

Supply voltage (A1-A2/A3-A2) 240V AC/ 24V AC-DC

Frequency 50 / 60 Hz

Power Consumption 8 VA

Delays

Delta mode on time delay (T1) 1.5 sec. to 150 sec.

Pause Timing (P) 50 - 500 msec. (in steps of 50 msec.)

Output Specifications

Output Contact Star-1 'NO'; Delta-1 'NO'

Contact Detail 5A @240V AC / 28V DC (Resistive)

LED Indications

Star mode indication 3 mm Red LED

Delta mode indication 3 mm Red LED

Environmental Specifications

Temperature Operating: 0 to 50 °C (32 to 122 °F)

Storage: -20 to 75 °C (-4 to 167 °F)

Humidity (non-condensing) 95% RH

Protection Level IP40 for Casing
IP20 for Terminals

Housing

Material Polycarbonate

Colour White

Dimension(H x D x W) 85 x 70.05 x 17.5 mm

Mounting TS 35 DIN Rail

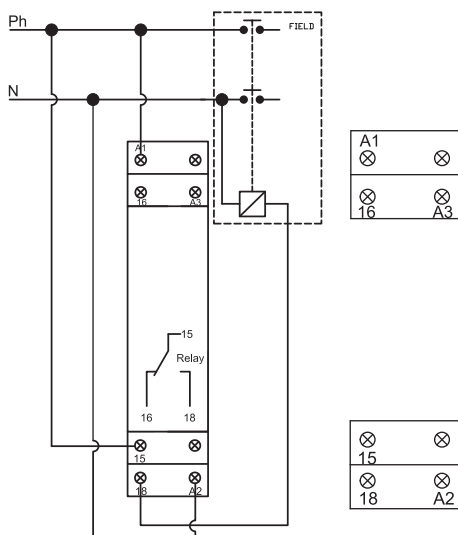
TIMERS

ON DELAY TIMER

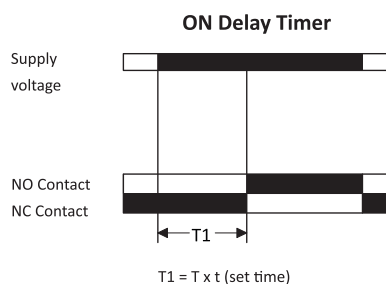
Type : OD-A-R3



Connection Diagram



Functional Diagram



Application

'elmex' ON Delay timer is used for facilitating simple, Reliable and economical control for definite purpose solution in industrial Application or in OEMs.

Features

- 17.5 mm DIN Rail Housing.
- 10 Time Ranges.
- Front knobs for Time Range & Time Scale.
- Slim, Space Saving Design.
- Green LED for Power ON.
- Red LED for Relay ON.
- Sealable Front Cover for Temper Proofing.
- Provision of Multi-meter prob for parameters measurement.

Technical Specification

Supply Voltage

Supply voltage (A1-A2/A3-A2) 240V AC/ 24V AC-DC

Frequency 50 / 60 Hz

Power Consumption 8 VA

Accuracy

Settings $\pm 5\%$ of F.S.

Repeat $\pm 0.5\%$ (F.S.=FullScale)

Output Specifications

Output Contact SPDT (1C/O)

Contact Detail 5A @240V AC / 28V DC (Resistive)

LED Indications

Power On 3mm Green LED

Relay On 3mm Red LED

Functional Specifications

Mode ON Delay

Time Ranges 0.1 - 1sec., 0.3 - 3sec., 1 - 10sec., 3 - 30sec., 0.1 - 1min., 0.3 - 3 min., 1 - 10min., 3 - 30 min., 0.1 - 1 hr., 0.3 - 3hr.

Environmental Specifications

Temperature Operating: 0 to 50°C (32 to 122 °F)

Storage: -20 to 75 °C (-4 to 167 °F)

Humidity (non-condensing) 95% RH

Protection Level IP40 for Casing

IP20 for Terminals

Housing

Material Polycarbonate

Colour White

Dimension(H x D x W) 85 x 70.05 x 17.5 mm

Mounting TS 35 DIN Rail

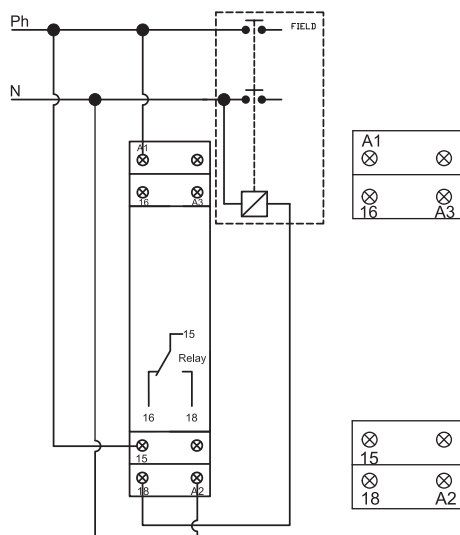
TIMERS

ON DELAY TIMER

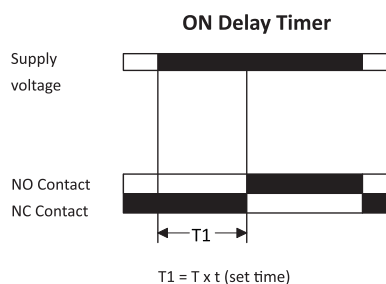
Type : OD-A-R4



Connection Diagram



Functional Diagram



Application

'elmex' ON Delay timer is used for facilitating simple, Reliable and economical control for definite purpose solution in industrial Application or in OEMs.

Features

- 17.5 mm DIN Rail Housing.
- Front knobs for Time Range & Time Scale.
- Slim, Space Saving Design.
- Green LED for Power ON.
- Red LED for Relay ON.
- Sealable Front Cover for Temper Proofing.
- Provision of Multi-meter prob for parameters measurement.

Technical Specification

Supply Voltage

Supply voltage (A1-A2/A3-A2) 240V AC/ 24V AC-DC

Frequency 50 / 60 Hz

Power Consumption 8 VA

Accuracy

Settings $\pm 5\%$ of F.S.

Repeat $\pm 0.5\%$ (F.S.=FullScale)

Output Specifications

Output Contact SPDT (1C/O)

Contact Detail 5A @240V AC / 28V DC (Resistive)

LED Indications

Power On 3mm Green LED

Relay On 3mm Red LED

Functional Specifications

Mode ON Delay

Time Ranges 0.3 sec. - 30 hr.

Environmental Specifications

Temperature Operating: 0 to 50 °C (32 to 122 °F)

Storage: -20 to 75 °C (-4 to 167 °F)

Humidity (non-condensing) 95% RH

Protection Level IP40 for Casing

IP20 for Terminals

Housing

Material Polycarbonate

Colour White

Dimension(H x D x W) 85 x 70.05 x 17.5 mm

Mounting TS 35 DIN Rail

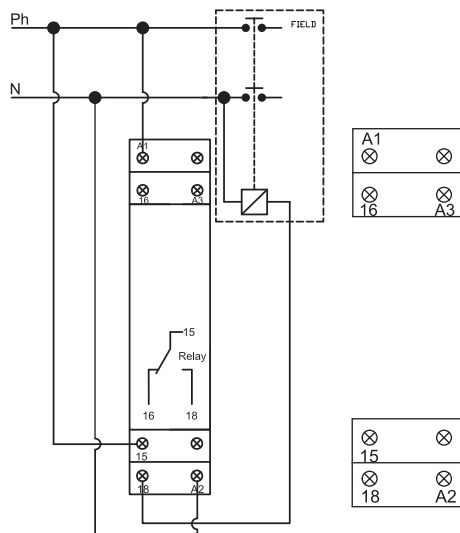
TIMERS

ON DELAY/ INTERVAL TIMER

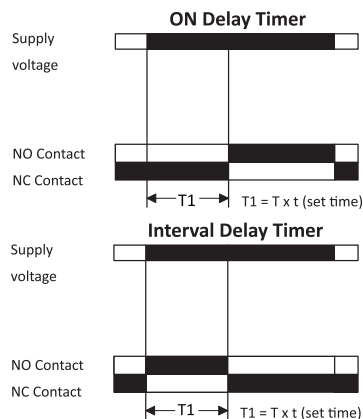
Type : ODI-A-R4



Connection Diagram



Functional Diagram



Application

'elmex' ON Delay/Interval timer is used for facilitating simple, Reliable and economical control for definite purpose solution in industrial Application or in OEMs.

Features

- 17.5 mm DIN Rail Housing.
- Front knobs for Time Range, Time Scale & Mode Setting.
- Slim, Space Saving Design.
- Green LED for Power ON.
- Red LED for Relay ON.
- Sealable Front Cover for Temper Proofing.
- Provision of Multi-meter prob for parameters measurement.

Technical Specification

Supply Voltage

Supply voltage (A1-A2/A3-A2) 240V AC/ 24V AC-DC

Frequency 50 / 60 Hz

Power Consumption 8 VA

Accuracy

Settings $\pm 5\%$ of F.S.

Repeat $\pm 0.5\%$ (F.S.=FullScale)

Output Specifications

Output Contact SPDT (1C/O)

Contact Detail 5A @240V AC / 28V DC (Resistive)

LED Indications

Power On 3mm Green LED

Relay On 3mm Red LED

Functional Specifications

Mode ON Delay/Interval

Time Ranges 0.3 sec. - 30 hr.

Environmental Specifications

Temperature Operating: 0 to 50 °C (32 to 122 °F)

Storage: -20 to 75 °C (-4 to 167 °F)

Humidity (non-condensing) 95% RH

Protection Level IP40 for Casing

IP20 for Terminals

Housing

Material Polycarbonate

Colour White

Dimension(H x D x W) 85 x 70.05 x 17.5 mm

Mounting TS 35 DIN Rail

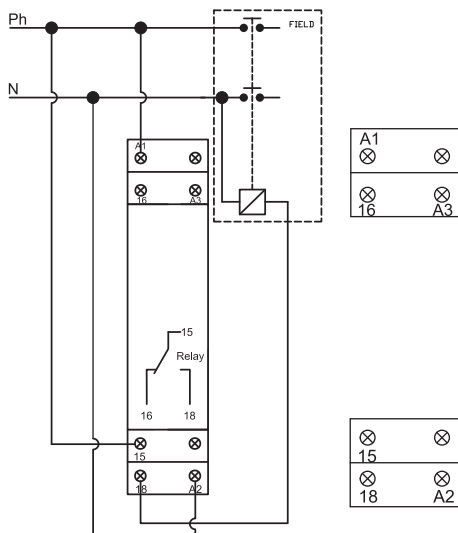
TIMERS

OFF DELAY TIMER

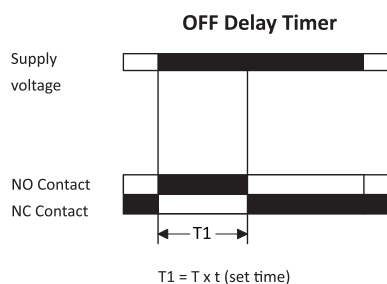
Type : OFF-A-R3



Connection Diagram



Functional Diagram



Application

'elmex' OFF Delay timer is used for facilitating simple, Reliable and economical control for definite purpose solution in industrial Application or in OEMs.

Features

- 17.5 mm DIN Rail Housing.
- 10 Time Ranges.
- Front knobs for Time Range & Time Scale.
- Slim, Space Saving Design.
- Green LED for Power ON.
- Red LED for Relay ON.
- Sealable Front Cover for Temper Proofing.
- Provision of Multi-meter prob for parameters measurement.

Technical Specification

Supply Voltage

Supply voltage (A1-A2/A3-A2) 240V AC/ 24V AC-DC

Frequency 50 / 60 Hz

Power Consumption 8 VA

Accuracy

Settings $\pm 5\%$ of F.S.

Repeat $\pm 0.5\%$ (F.S.=FullScale)

Output Specifications

Output Contact SPDT (1C/O)

Contact Detail 5A @240V AC / 28V DC (Resistive)

LED Indications

Power On 3mm Green LED

Relay On 3mm Red LED

Functional Specifications

Mode OFF Delay

Time Ranges 0.1 - 1sec., 0.3 - 3sec., 1 - 10sec., 3 - 30sec., 0.1 - 1min., 0.3 - 3 min., 1 - 10min., 3 - 30 min., 0.1 - 1 hr., 0.3 - 3hr.

Environmental Specifications

Temperature Operating: 0 to 50°C (32 to 122 °F)

Storage: -20 to 75 °C (-4 to 167 °F)

Humidity (non-condensing) 95% RH

Protection Level IP40 for Casing

IP20 for Terminals

Housing

Material Polycarbonate

Colour White

Dimension(H x D x W) 85 x 70.05 x 17.5 mm

Mounting TS 35 DIN Rail

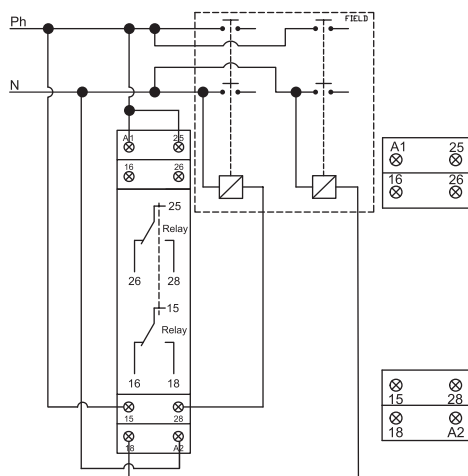
TIMERS

MULTI FUNCTION TIMER

Type : M05-D-R3



Connection Diagram



Application

'elmex' Multi-Function timer is used for facilitating simple, Reliable and economical control for definite purpose solution in Industrial Application or in OEMs.

Features

- 17.5 mm DIN Rail Housing.
- 10 Time Ranges.
- Front knobs for Time Range, Time Scale & Mode Setting.
- Slim, Space Saving Design.
- Green LED for Power ON.
- Red LED for Relay ON.
- Sealable Front Cover for Temper Proofing.
- Provision of Multi-meter prob for parameters measurement.

Technical Specification

Supply Voltage

Supply Voltage (A1-A2)	240V AC
Frequency	50 / 60 Hz
Power consumption	12 VA

Accuracy

Settings	Settings: $\pm 5\%$ of F.S.
Repeat	Repeat: $\pm 0.5\%$ (F.S.=FullScale)

Output Specifications

Output Contact	DPDT (2 C/O) Relay
Contact Detail	5A @240V AC / 28V DC (Resistive)

LED Indications

Power On	3mm Green LED
Relay On	3mm Red LED

Functional Specifications

Modes	On Delay (A)
	Interval (B)
	Cyclic equal OFF first (C)
	Cyclic equal ON first (Ci)
Time Ranges	Pulse output (One Shot)(D)
	0.1 - 1sec., 0.3 - 3sec.,
	1 - 10sec., 3 - 30sec., 0.1 - 1min.,
	0.3 - 3min., 1 - 10min.,
	3 - 30 min., 0.1 - 1 hr., 0.3 - 3hr.

Environmental Specifications

Temperature	Operating: 0 to 50 °C(32 to 122 °F)
	Storage: -20 to 75 °C(-4 to 167 °F)
Humidity (non-condensing)	95% RH
Protection Level	IP40 for Casing
	IP20 for Terminals

Housing

Material	Polycarbonate
Colour	White
Dimension(H x D x W)	85 x 70.05 x 17.5 mm
Mounting	TS 35 DIN Rail

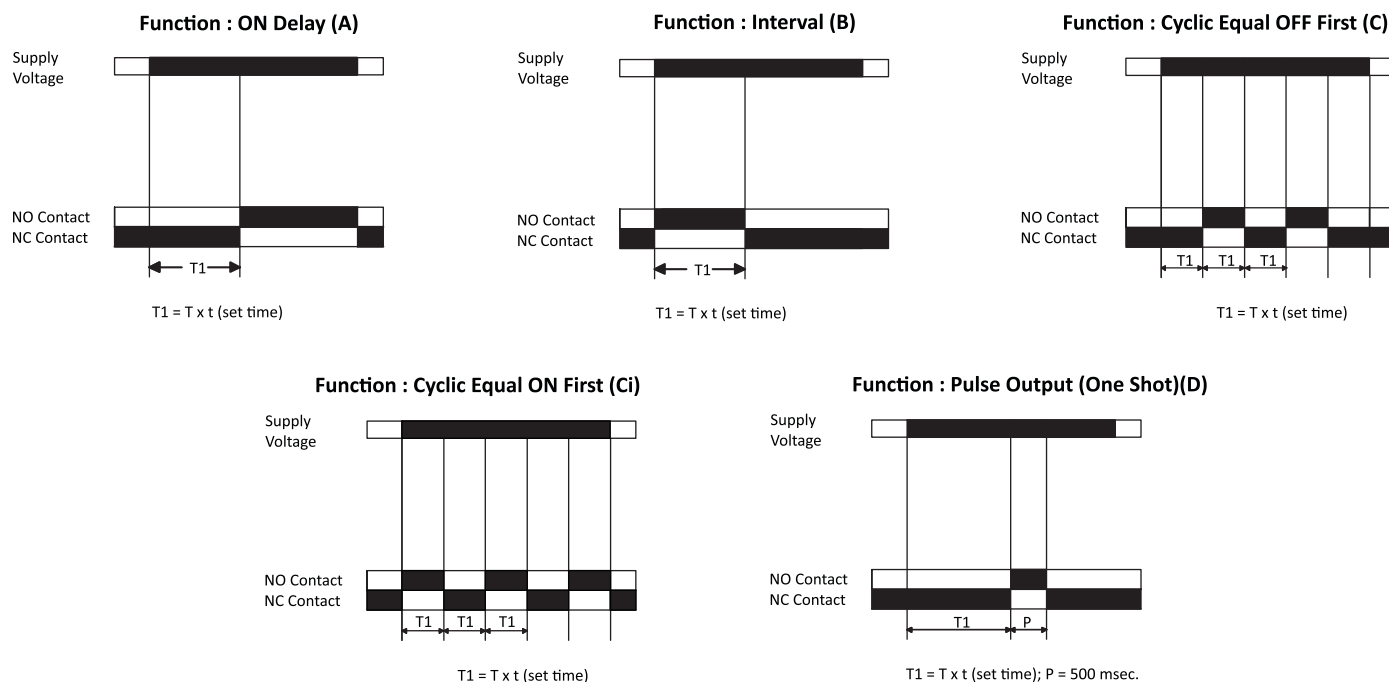
TIMERS

MULTI FUNCTION TIMER

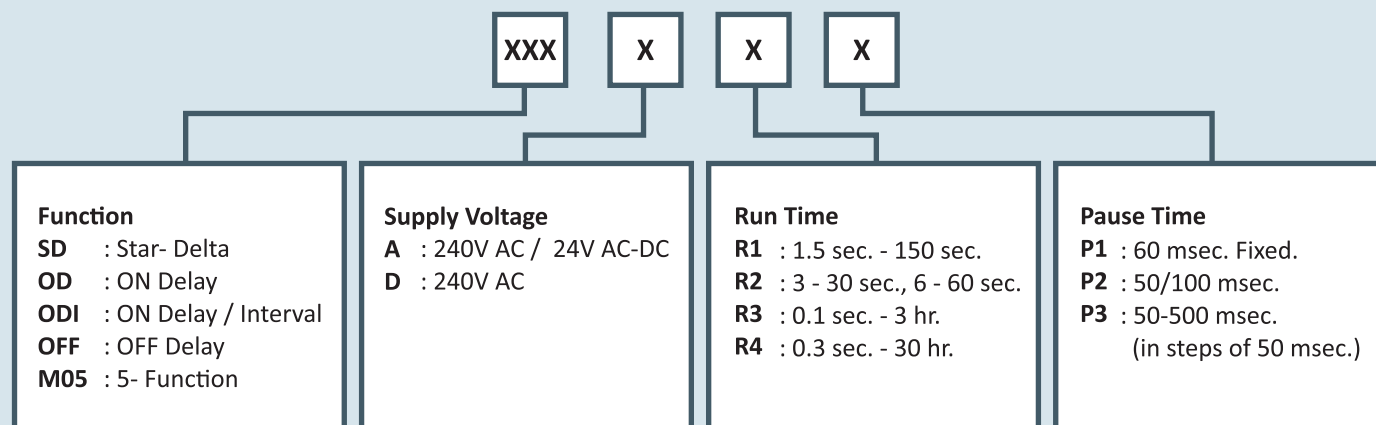
Type : M05-D-R3



Functional Diagram



TIMER CODE DESCRIPTION





Elmex Controls Pvt. Ltd. | Elmex Electric Pvt. Ltd.

12, GIDC Estate, Makarpura, Vadodara -390010, Gujarat, India

☎ 0265-2642021 / 23

✉ marketing@elmex.net

🌐 www.elmex.net



Scan for Website

Elmex Timers May 2022